

Master of Healthcare Business Analytics

Appendix A

Standard Purdue Course Evaluation

Demographics

UofA Student Demographics

Your class

Freshmen Sophomore Junior Senior Graduate Other

Expected Grade

A/PASS B C D F/FAIL

Your college:

College of Education and Health Professions

College of Engineering

Dale Bumpers College of Agricultural, Food and Life Sciences

Fay Jones School of Architecture

J. William Fulbright College of Arts and Sciences

Sam M. Walton College of Business

School of Law

Graduate School

Undeclared

Course Required

YES NO

University Core Course

Overall, I would rate this course as:

Excellent Good Fair Poor Very Poor

University Core Instructor

Overall, I would rate this instructor as:

Excellent Good Fair Poor Very Poor

My Instructor is fluent in English

Strongly Agree Agree Undecided Disagree Strongly Disagree

WCOB College Core: Course Questions
Course Based Questions

When I have a question or comment I know it will be respected.
Strongly Agree Agree Undecided Disagree Strongly Disagree

WCOB College Core: Instructor Questions
Instructor Based Questions

My instructor displays a clear understanding of course topics.
Strongly Agree Agree Undecided Disagree Strongly Disagree

My instructor is actively helpful when students have problems.
Strongly Agree Agree Undecided Disagree Strongly Disagree

My instructor displays enthusiasm when teaching.
Strongly Agree Agree Undecided Disagree Strongly Disagree

My instructor seems well-prepared for class.
Strongly Agree Agree Undecided Disagree Strongly Disagree

Master of Healthcare Business Analytics

Appendix B

Faculty Curriculum Vitae

OBJECTIVE

I currently serve on faculty at the University of Arkansas where I am Professor and Associate Director of the Blockchain Center of Excellence.

I have extensive experience in many related areas of analytics, blockchain, and AI. I am generally interested in the space of Digital Transformation, which involves the automation of people, processes, and technology. Blockchain is the technical layer of the digital transformation of ecosystems, such as supply chain, medical, or financial ecosystems.

I have also recently consulted in ML and AI for companies such as Cisco Systems and Northrop Grumman/USSF and have a sports analytics company for fun and profit. I am a thought leader for Cognitive World.

EDUCATION

Indiana University Ph.D., Decision Sciences / Operations Research Minors in Operations Management, Applied Mathematics	1992
Indiana University M.A., Mathematics (statistics, number theory)	1989
Augustana College B.A., Summa Cum Laude, Computer Science, Mathematics	1986

PROJECT WORK

Chief Data Scientist, Muinin	2019 - present
Chair, BiTA Implementation Technical Committee	2021 - present
Chief Decision Scientist, QLytx	2015 – present
Consultant, Near Shore Technologies	2020
Professor in Residence, Cisco Systems	2016, 2018
Expert Witness in analytics, Fidelity, Epic Systems	2013 - 2017
Chief Science Officer, nViEM	2015 - 2017
Consulate Healthcare, risk management	2015 - 2016
Chemstation, logistics	2014 - 2018
Deere & Company, analytics architecture design	2009 – 2012
Team Cymry, Internet security	2007 - 2009
AIG, optimal portfolio design	2010
Monsanto, Process Control	2011

RECENT INVITED LECTURES

- “Blockchain & AI”, IEEE Healthcare Virtual Series, 2020
- “Blockchain Strategy”, Smart Government, Bangalore & New Delhi India, 2020
- “Strategic Considerations in Leveraging Blockchain Technology”, SIM Advanced Practices Council, Miami, 2020
- “Digital Transformation: How to Actually Do It”, Citi, Tampa, 2019
- “Blockchain Workshop”, University of Arkansas, 2019
- “Digital Transformation in Supply Chain”, Florida Supply Chain Institute, Orlando, 2019
- “Blockchain and Supply Chain”, Cleveland State SAS Days, Cleveland 2018
- “Blockchain 101”, Nexus Annual Meeting, Phoenix, 2018
- “Blockchain and Cryptocurrency”, Tampa Chapter AMAA, Tampa 2018
- “Blockchain and Cryptocurrency”, National Meeting AMAA, Miami, 2018

- “Ethics and Analytics”, University of Iowa, Davenport IA, 2016
- “Healthcare Analytics”, INFORMS healthcare analytics conference, Nashville 2015
- “Can-we Should-we: Ethics in Big Data”, IMA Midwest meeting, Cedar Rapids, IA 2015
- “Ethics and Big Data”, Emory University, Atlanta 2015
- “Ethics and Analytics”, Seton Hall University, New Jersey 2015
- “Can-we Should-we: Ethics in Big Data”, Honkamp Kruger annual meeting, Des Moines 2015
- “Data Analytics Strategies”, UnityPoint Healthcare annual meeting, Dubuque, IA 2015
- “Data Poverty”, Vatican Workshop on Poverty, Manila, Philippines 2015
- “Sports Analytics”, John Deere Business Intelligence Summit, Moline, IL 2014
- “Sports Analytics”, Loras Symposium on Analytics, Dubuque, IA 2014

ACADEMIC POSITIONS

University of Arkansas, Department of Information Systems Professor, Associate Director of the Blockchain Center of Excellence	Aug 2019 - Present
University of South Florida, Department of ISDS Instructor Statistical Data Mining, Data Visualization, Operations & Supply Chain Management, Cryptocurrency & IoT, Data Mining, Statistical Programming, Decision Science, Blockchain Programming, Data Analytics	Aug 2016 – Aug 2019
University of Notre Dame, Department of Management Adjunct Professor Associate Professor Ethics and Business Analytics, Risk Management, Operations Management	Jun 2015 – Jun 2017 Jun 2001 – Jun 2005
University of Iowa, Department of Management Science Business Director, MBA Analytics Academy Adjunct Professor Business Analytics, Advanced Business Analytics, Process Improvement, Operations Management	Jun 2013 – Dec 2015
Loras College, Department of Business Founding Director of the MBA in Analytics Director, Center for Business Analytics Associate Professor of Business Analytics Performance Management, Analytics Methods, Data Science, Marketing Analytics, Advanced Visualization	Jun 2013 – Jun 2017
Northwestern University, Department of Industrial Engineering and Management Science Adjunct Professor Big Data Analytics, Finance for Engineers	Apr 2013 – Jun 2013
Augustana College, Department of Business Administration Associate Professor Business Process Management, Management Information Systems, Business Simulation, Business Statistics I, II	Aug 2009 – May 2013
Indiana University, Department of Operations and Decision Technologies Associate Clinical Professor Director of the IU RFID lab Analytics methods: Statistics, Simulation, Optimization, Business Process Management	Jun 2005 – Aug 2007
University of Florida, Department of Decision and Information Sciences Associate Professor MBA and MA Networking & Security, E-commerce security and payment technologies, Supply Chain Management	Aug 1998 – May 2001
Virginia Tech, Department of Management Science and Information Technology Assistant Professor Quantitative Methods, Computer Simulation, Computer Modeling, Decision Analysis, Decision Support and Expert Systems, Advanced Business Computing and Application, Distributed Systems and Object Technology	Aug 1992 – June 1997

RESEARCH

Book Chapters

Conway, Daniel and Klabjan, Diego. "Innovation Patterns and Big Data", Big Data and Business Analytics, CRC Press. 2013.

Conway, Daniel and Koehler, Gary. "Electronic Commerce: Privacy, Security, and Control", book chapter in *Handout on Electronic Commerce. International Handbooks on Information Systems*, Springer, 2000.

Refereed Publications

Conway, Daniel and Garimella, Kiran, 2020. "Enhancing Trust in Business Ecosystems with Blockchain Technology", *IEEE Engineering Management Review*, Vol 48, No. 1.

Subramanian, Conway, et al. . 2020. "Blockchain Regulations and Decentralized Applications", Accepted Communications of the Association for Information Systems.

Conway, DG and MF Gorman. 2017. "A Tutorial of Integrating Duality and Branch and Bound in Earliness-Tardiness Scheduling with Idle Insertion Time Problems" Accepted to *International Journal of Production Research*, 50th Anniversary Special Issue.

Taube, Arnold; Conway, Daniel, "Protecting Intellectual Property when Publishing 3-D Models" *SAE Int. J. Commer. Veh.* 1(1):495-504, 2009.

Prietula, Michael J.; Conway, Daniel. The evolution of metanorms: quis custodiet ipsos custodes? *Comput Math Organ Theory* (2009) 15:147-168.

Conway, Daniel. "Metricon 3.0". *login* (Journal of USENIX), Vol 33, No 6, December, 2008.

Conway, Daniel; Koehler, Gary; Caveat Mercator in Electronic Commerce: An Update. *Decision Support Systems*, 2008.

Conway, Daniel; Prietula, Michael. "The Evolution of Metanorms I: Reproduction, Extension, and Insight", Aug 2008 Academy of Management.

Franz, Robert; Conway, Daniel, "Cross Cultural Collaboration: Global Disruption for Two". *Innovation Monograph*, II. October, 2008, p 7-12.

Conway, Daniel; Gorman, Michael, "An Application of Interdependent Lot Size and Consolidation Point Choice". 2006 *Mathematical and Computer Modeling*.

Gorman, M. F., D. G. Conway. 2005. Logistics costs based estimation of freight transportation demand for capacity planning. *Journal of the Transportation Research Forum* 44(1) 141-155.

Balakrishnan, Jaydeep; Conway, Daniel; Cheng, Chun Hung; Lau, Chun Ming. "A Hybrid Genetic Algorithm for the Dynamic Plant Layout Problem", 2003 *International Journal of Production Economics*.

Conway, Daniel. "Supplier Affiliated Extended Supply Chain Backbones", *Information Systems Frontiers*, Vol. 2,1,2000, p. 57-64.

Erguc, S. Selcuk, Ahn, Taeho, Conway, Daniel. "The Resource Constrained Project Scheduling Problem with Multiple Crashable Modes: An Exact Procedure", *Naval Research Logistics*, Vol. 48, 2000, p. 107-127.

Balakrishnan, Jaydeep; Cheng, Chun Hung; Conway, Daniel; "An Improved Pair-wise Exchange Heuristic for the Dynamic Plant Layout Problem", *International Journal of Production Research*, 2000, Vol. 38, No 13, p. 3067-3077.

Conway, Daniel; Cabot, A. Victor; Venkataramanana, M.A. "A Genetic Algorithm for Discriminant Analysis", *Annals of Operations Research*. 1998, Vol. 78, p. 71-82.

Desai, V.; Conway, D.; Crook, J.; Overstreet, G. "Credit Scoring in the Credit Union Environment Using Neural Networks and Genetic Algorithms", *IMA Journal of Management Mathematics*, 1997, Vol. 8, Issue 4, p. 323-346.

Conway, Daniel; Ragsdale, Cliff. "Modeling Optimization Problems in the Unstructured World of Spreadsheets", *Omega International Journal of Management Science*, 1997, Vol. 25, No. 3, p. 313-322.

Research Grants

National Science Foundation Exploratory Grant 2000-2001
"Theory and Methodologies to Support the Operation of Flexible Production Networks".
Twenty grants awarded August 2000. \$200,000 to study B2B protocols for plug-n-play supply chains or virtual corporation information flow.
(*J. Hammer (PI), S. Bai, J. Geunes, W.O'Brien, R. Issa*)

Journal Columns & Proceedings

;login, "For Good Measure", Vol 43, No 1, Spring 2018 with co-author Dan Geer
;login, "For Good Measure", Vol 38, No 3, June 2013 with co-author Dan Geer

IEEE Journal of Security and Privacy, "For Good Measure". (2009-2012) Bi-monthly column with co-author Dan Geer.

Inventory-based deliver routing and scheduling, INFORMS National Conference, Nashville, Fall, 2016 with co-author Mike Gorman

ChemStation embarks on a new method of soap delivery, POMS/Euroma International Conference, Havana, Cuba, Fall, 2016 with co-author Mike Gorman

ChemStation embarks on a new method of soap delivery, CIN/DAY INFORMS Conference, October 9, 2015 with co-author Mike Gorman

Professional Service

Guest Editor, special issue of INFORMS Applied Analytics: Blockchain Analytics
SAE IoT Program Committee (2017-2019)
INFORMS, Analytics Maturity Model committee (2015-2017)
Decision Sciences Institute, Chair for Applied Decision Support (2016, 2017)
Assistant Editor, Institute for Industrial Engineering and Technology, Analytics subtopic, 2012.
Serve on Metricon advisory panel, 2008
Referee for DSS, Decision Sciences, EJOR, Auditing: A Journal of Practice and Theory, and others
Served as DSI track chair, once in SCM, once in MIS, session chair dozens of times.

Michael Dereszynski

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EDUCATION

Master's Degree, Information Systems, University of Arkansas, 2020

- Concepts and techniques in areas such as Enterprise Resource Planning (ERP), Business Analytics, E-Business, and Enterprise Systems focused on solving business problems using tools from IBM, SAP, Microsoft, Teradata, and SAS

B.S., Computer Science and Engineering, Milwaukee School of Engineering, 1994

- Study of hardware and software systems, including operating systems design, graphics development, embedded systems and electrical engineering

PROFESSIONAL EXPERIENCE

Instructor and Associate Director · Univ of Arkansas · Aug 2019 -

- Taught undergraduate courses in Business Analytics, Data Mining and the capstone course for students in the Information Systems Major/Concentration
- Recruit and advise students (and potential students) for the Master of Information Systems degree

Regional Sales Director · Microsoft · Jan 2014 – Sept 2018

- Led a team of engineers and scientists that delivered training, professional presentations, implementation support and pre-sales information for 500 customers. As a team we helped to bring more than 30 companies onto the Azure platform and drove utilization of the platform by 300% year over year.
- Recruited, hired, taught and managed a sales team of over 20 sales and technical professionals to increase sales by 15% per year across 25 accounts in Arkansas and Oklahoma. With revenue targets exceeding \$120M per year, targets were exceeded 3 out of 4 years, while significantly improving our customer satisfaction and developing underserved accounts.
- Led negotiations on several of the largest deals in the territory, including the largest Azure partnership. This partnership required the development of new financial and legal models and established the process by which other major partnerships were developed.
- Worked extensively with executive teams from Microsoft, Microsoft partners and customers to develop creative solutions that served as patterns for future offerings in our region.

Principal Enterprise Architect · Microsoft · Feb 2009 – Dec 2013

- As part of a diverse team from across the company, created Microsoft's initial business strategy consulting organization. Developed the framework for strategic analysis, hiring framework, and acted as a senior practitioner.
- Consulted with a variety of companies across several industries to establish IT departments, identify key digital transformation opportunities and develop strategic deployment plans for high business impact technologies.

- Earned certification as a Professional Software Architect (the 5th person worldwide to do so). Mentored 15 aspiring architects to their Professional Architect certification from the International Association of Software Architects. Served on the board of this organization for over 4 years, reviewing and coaching candidates for Associate and Professional certifications.

Principal Consultant (App Development) • Microsoft • July 2001 – Feb 2009

- Participated in and led many different projects with dozens of Microsoft's clients using C#, VB.Net, C++ and other programming languages.
- Led large technical training sessions for client companies, worked with individual contributors, gathered requirements from business leaders to create design documents.
- Responsibilities also included rapid understanding of new and emerging concepts and synthesizing these concepts into training with very little runway, often turning brand new product advances into practical application within weeks or days.
- Industries served included healthcare providers, pharmaceutical manufacturing, health care payers, upstream and downstream energy production, retail, transportation and consumer packaged goods.

Senior Systems Engineer • Walmart • Sep 1997 - July 2001

- Led teams of support engineers and developed solutions on Windows and Unix systems.

Firmware Engineer • Compaq Computer Corp • June 1994 - Sep 1997

- Developed system BIOS and hardware drivers for servers and network switches.

SKILLS

Data Analysis

Solution Architecture

Microsoft Office

IT Strategy

Software Development

Enterprise Architecture

Software Development Lifecycle

SAS Viya, SAS Enterprise Miner

Python, C#, VB.Net, SQL, Java

Cloud Computing

Project Management

ERP, SAP

COMMUNITY SERVICE

Boy Scout Troop Leader, 2008-2011

Run 4 God 5k Program Coordinator, 2013-2016

Adult Bible Study Teacher, 2000-2012

Outback in the Ozarks Board, 2014-2018

Ozark STEM Board Member, 2014-2016

PROFESSIONAL AFFILIATIONS

International Association of Software Architects

Microsoft Certified Architect Software

LANGUAGES

English: Native Language

Jana Gastineau

Summary

Experienced problem solver and leader with years of teaching and business experience that enjoys finding creative solutions to complex problems while working collaboratively with others

Highlights

- Superior mathematical and analytical rigor
- Skilled at breaking down difficult concepts for various audiences and purposes
- Extremely well organized and motivated with focus on execution
- Strategic mindset with long term vision and creativity
- Natural born leader with salesmanship and a great personality

Career History

Supplier Solutions Manager II Walmart 2018-2020

- Optimized different facets in supply chain by working with transportation, merchandising, replenishment, and logistic teams
- Led the Consumables SSM team, developed our team goals, restructured projects, held team meetings, established positive team communication protocols, plus revived & led the Food, GM, and Consumable's cross-functional meeting
- Ran meetings with Fortune 500 companies to better understand their complex supply chain constraints to improve alignment with Walmart initiatives such as On Time and In Full (OTIF) compliance
- Managed a project to digitally transform the Supplier Solutions team that would improve supplier communication & user experience
- Consumables lead for OTIF program and supply chain lead on a project to better understand logistical aspects as they related to negotiation tactics
- SSM lead on COVID-19 response task force to optimize supply chain and demand response as a result of abrupt changes in consumer shopping needs
- Focused on the development of my peers in the organization by mentoring them in several areas for personal and professional growth

Analyst Applications Tyson Foods, Inc. 2017-2018

- Scrum Master, Testing Captain, and Team Leader on project to migrate primary business software to cloud-based SAP S/4Hana
- Organized people and projects across multiple areas of the business to move new ideas and solutions forward
- Worked on a team to develop new technology for Tyson raw poultry plants
- Analytical and Statistical work using various business intelligence tools such as Tableau and PowerBI
- Created a positive work environment by giving tours of the new facility, organizing team building events, and celebrating team member's achievements

Instructor of Mathematics University of Arkansas 2011-2017

- Instructed students in the areas of Statistics, Finite or Business Mathematics, Mathematical Reasoning, Survey of Calculus, PreCalculus, and College Algebra
- Led a curriculum development team to build a new mathematical reasoning course
- Developed eLearning curriculum for online courses
- Operated as Mathematics Resource Testing Center Coordinator
- Created training and marketing videos for both internal and external use
- Team leader and mentor to new faculty



Contact Details

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Education

Graduate Certificate
Business Analytics
(2017)

Master of Science in
Mathematics
(2010)

Bachelor of Science in
Mathematics
(2009)

Technical Skills

MS Office, MS PowerBI,
Tableau, SQL, Alteryx,
Trello, Jira, Business
Intelligence Software, and
Organizational
Management Tools

Affiliations

Current alumnae member
of Chi Omega Fraternity

Former board member of
New Beginnings Children's
Home

References available upon
request

Jeffrey K. Mullins

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{jeff_mullins@msn.com; jkmullins@walton.uark.edu}

EDUCATION

Doctor of Philosophy, Business Administration (Information Systems) 2019

Dissertation Title: Getting Serious about Games: A Study of Work and Play through Information Systems

University of Arkansas, Fayetteville

Master of Information Systems

2006

Concentration: Enterprise Resource Planning

University of Arkansas, Fayetteville

Bachelor of Science, Computer Science

1997

Minor: Mathematics

University of Arkansas, Fayetteville

REFEREED JOURNAL ARTICLES

1. **Mullins, J. K.**, & Cronan, T. P. (2021). Enterprise Systems Knowledge, Beliefs, and Attitude: A Model of Informed Technology Acceptance. *International Journal of Information Management*, 59, 102348.
2. **Mullins, J. K.**, & Sabherwal, R. (2020). Gamification: A Cognitive-Emotional View. *Journal of Business Research*, 106, 304-314.
3. Cronan, T. P., **Mullins, J. K.**, & Douglas, D. E. (2018). Further Understanding Factors that Explain Freshman Business Students' Academic Integrity Intention and Behavior: Plagiarism and Sharing Homework. *Journal of Business Ethics*, 147(1), 197-220.¹
4. Cronan, T. P., McHaney, R., Douglas, D. E., & **Mullins, J. K.** (2017). Changing the Academic Integrity Climate on Campus Using a Technology-Based Intervention. *Ethics & Behavior*, 27(2), 89-105.

OTHER REFEREED PUBLICATIONS AND PROCEEDINGS

1. Bina, S., **Mullins, J. K.**, & Petter, S. (2021). Examining Game-based Approaches in Human Resources Recruitment and Selection: A Literature Review and Research Agenda, in *Proceedings of the 54th Hawaii International Conference on System Sciences*, 1325-1334.
2. **Mullins, J. K.**, & Sabherwal, R. (2018). Beyond Enjoyment: A Cognitive-Emotional Perspective of Gamification, in *Proceedings of the 51st Hawaii International Conference on System Sciences*, 1237-1246.
3. Bristow, S. E., Serrano, C. I., & **Mullins, J. K.** (2016). Game Play: Online Delivery of ERP Simulation Game, in *Proceedings of the 19th SAP Academic Conference Americas*, San Diego, CA, February 16-18.

¹ Journal appears on *The Financial Times* Top 50 Journals (FT 50) list

4. Bristow, S. E., Serrano, C. I., & **Mullins, J. K.** (2016). Online versus Flipped Learning: Understanding Factors that Shape Student Success in ERP Courses, in *Proceedings of the 19th SAP Academic Conference Americas*, San Diego, CA, February 16-18.
5. Cronan, P., Douglas, D. E., & **Mullins, J. K.** (2015). An Online Graduate Certificate Credential Program at the University of Arkansas, in *Reshaping Society through Analytics, Collaboration, and Decision Support; Role of Business Intelligence and Social Media. Annals of Information Systems (18)*, 239-247.
6. **Mullins, J. K.**, & Sabherwal, R. (2014). How Much Information is Too Much? Effects of Computer Anxiety and Self-Efficacy, in *Proceedings of the 35th International Conference on Information Systems*.
7. **Mullins, J. K.**, & Sabherwal, R. (2014). Information Systems as Conduits for Information Flow: A Communication Framework of System Usage for Decision Making. Presented at *Big XII+ MIS Research Symposium*, Norman, OK, April 4-6. (no published proceedings)

RESEARCH IN PROGRESS

1. 1 manuscript under second-round review at *MIS Quarterly*.
2. 1 manuscript under review at *European Journal of Information Systems*.
3. 1 manuscript under review at *The Leadership Quarterly*.
4. 1 manuscript under review at *Organization Science*.

OTHER PUBLICATIONS AND PRESENTATIONS

1. Conrad, C., Léger, P.-M., & **Mullins, J. K.** (2021) Research Discussion with the ERPsim Community. Panel presentation at *10th ERPsim User Group Meeting* (online), Montreal, QC, June 7-9.
2. Nikkhah, H. R., & **Mullins, J. K.** (2019). Gamified Systems and Information Disclosure Behavior. Extended abstract and TREO Talk presented at *International Conference on Information Systems*, Munich, Germany, December 15.
3. **Mullins, J. K.**, & Keiffer, E. A. (2019). The ABCs of Cognitive Biases in Analytics. Presentation at *Tyson Analytics Community Summit*, Springdale, AR, February 8.
4. Keiffer, E. A., & **Mullins, J. K.** (2018). Defining the Citizen Data Scientist. Presentation at *Tyson Analytics Community Summit*, Springdale, AR, November 15.
5. **Mullins, J. K.**, Pallette, D., & Wang, R. Y. (2017). About Your Data... Presentation at *Arkansas Digital Government Summit*, Little Rock, AR, September 13.
6. **Mullins, J. K.** (2017). Getting Serious about Games: A Study of Work and Play through Information Systems, poster presented at *OCIS Doctoral Consortium and Member Reception, Academy of Management Conference*, Atlanta, GA, August 5.
7. Bradbury, J., Elder, K. L., **Mullins, J. K.**, Norguera, J., & Raftery, C. (2016). Discussing what University Students Learn about Analytics. Panel presentation at *ASUG SAP BI+ Analytics Conference*, New Orleans, LA, October 17-20.
8. **Mullins, J. K.** (2016). Analytics & Education: A Two-way Street. Panel moderator at *Northwest Arkansas Technology Summit*, Rogers, AR, October 7.

9. Cronan, T. P., Douglas, D. E., **Mullins, J. K.**, McHaney, R., Labonte-LeMoyne, E., Catapano, N., & Speed, M. (2016). Business Analytics and Big Data – Available Resources; Preparing the Next Generation of Knowledge Workers. Workshop presented at *The 49th Annual Hawaii International Conference on System Sciences*, Kauai, HI, January 5-8.
10. **Mullins, J. K.**, & Cronan, T. P. (2015). Game Changer? Making a Difference in ERP Knowledge, Self-Efficacy, and Attitudes through an Immersive Intervention. Presented at *ITRI Executive Board Meeting, Information Technology Research Institute*, Fayetteville, AR, October 1.

EDITORIAL AND REVIEW SERVICE

- Associate Editor, International Conference on Information Systems 2021 (AI in Business and Society Track)
- Recent Journal Reviews: Journal of the Association for Information Systems, Information Systems Journal, Internet Research, Information & Management
- Recent Conference Reviews: International Conference on Information Systems, Hawaii International Conference on System Sciences, European Conference on Information Systems

ACADEMIC WORK EXPERIENCE

University of Arkansas, Fayetteville, AR

Assistant Professor of Information Systems

2019 – Present

- Research: convergence of work & play; analytics & decision making; ethics & deviant behavior
- Service: department, college, and university committees and boards; reviewing for international journals and conferences
- Teaching (3 courses/year): graduate-level “hands-on” IS and analytics courses in data management and ERP configuration

Associate Director – MIS Programs and Executive in Residence

2007 – 2019

- Management, recruiting, and advising for non-Ph.D. graduate programs in information systems, including full-time MIS, Professional (part-time) MIS, and Graduate Certificates in Enterprise Systems (Business Analytics, Enterprise Resource Planning, and Information Systems); supported professional program enrollment and revenue growth of over 200% since 2007, resulting in current program revenue > \$750K / year and total program support of > \$5M over 12 years
- Taught (2 courses/semester, 3 semesters/year) graduate and upper-level undergraduate “hands-on” IS and analytics courses in data management and data warehousing, ERP fundamentals, and ERP configuration with excellent course evaluations

Adjunct Instructor

2006

- Taught undergraduate courses in database systems and application development with excellent course evaluations

PROFESSIONAL WORK EXPERIENCE

Tyson Foods, Inc., Springdale, AR

Sr. Business Analyst

1997 – 2006

- Project management and technical leadership for implementations of enterprise content management (ECM) platform, board of directors' web-based document repository, IS service request system, CFO dashboard, and document management/imaging systems

Information Systems Intern

1996 – 1997

- Support for PC hardware and software, management of Windows 95 rollout, application development of document management/imaging systems

Monsanto, Luling, LA

Data Communications Analyst Intern

1996

- Support for PC hardware and software, network and server maintenance

TEACHING

Courses taught / sections / evaluations (5-point scale, with 5 being best)²

- Upper-level undergraduate / 5 sections / 4.77 (N = 74)
 - ISYS 4283 Business Database Systems / 3 sections / 4.73
 - ISYS 4213 ERP Fundamentals / 1 section / 4.81
 - ISYS 4223 ERP Configuration & Implementation / 1 section / 5.00
- Graduate / 49 sections / 4.82 (N = 667)
 - ISYS 511V IT Toolkit (100% online) / 8 sections / 4.81
 - ISYS 511V Analytics Toolkit / 4 sections / 4.81
 - ISYS 5103 Data Analytics Fundamentals / 5 sections / 4.76
 - ISYS 5213 ERP Fundamentals / 9 sections / 4.89
 - ISYS 5223 ERP Configuration & Implementation / 6 sections / 4.86
 - ISYS 5833 Data Management Systems / 17 sections / 4.84

SERVICE

- Master of Information Systems (MIS) Advisory Committee (2007-present)
- Tesseract Faculty Board (2019-present)
- Data and Cybersecurity Management Programs Committee (2019-present)
- Master's Thesis Committee member for two students, MS Statistics and Analytics (2016)
- Faculty Co-advisor, Chinese Students & Scholars Association, University of Arkansas (2014-2016)
- Faculty Advisor, Microsoft .NET User Group, University of Arkansas (2008-2012)

CERTIFICATIONS

- ERPsim Level 2 Instructor Certification

² Notes. Data from Summer 2011 (when the university instituted online course evaluations) to Fall 2020; reported score is a weighted average across course sections for the university core question "Overall, I would rate this instructor as..."

- ERP Certificate (University of Arkansas / SAP America / SAP University Alliances)

AWARDS AND AFFILIATIONS

- 2020 ACM SIGMIS Doctoral Dissertation Award
- 2018 International Conference on Information Systems (ICIS) Doctoral Consortium
- 2018 Hawaii International Conference on System Sciences (HICSS) Doctoral Consortium
- 2017 Organizational Communication and Information Systems (OCIS) Doctoral Consortium
- 2016 Americas Conference on Information Systems (AMCIS) Doctoral Consortium, Mid-Stage Doctoral Student Track
- Outstanding Lecturer Award, Sam M. Walton College of Business, University of Arkansas 2016
- Member, Association for Computing Machinery Special Interest Group on Management Information Systems (ACM SIGMIS)
- Member, Association for Information Systems (AIS)
- Member, AIS Special Interest Group on Gaming (SIGGAME)
- Member, AIS Special Interest Group on Decision Support and Analytics (SIGDSA)
- Member, Academy of Management (AOM)
- Member (lifetime), Beta Gamma Sigma (BGS) honor society

Elizabeth Keiffer, Ph.D.

Personal Information

Cell: (479) 409 – 2101

Email: ekeiffe@uark.edu

Educational Background

- 2015 -2016 **Certificate in Enterprise Systems with Business Analytics Concentration**
from Department of Information Systems in Walton College of Business
University of Arkansas, Fayetteville, AR
- 2007 – 2011 **Ph.D. in Educational Statistics and Research Methods**
from Department of Curriculum and Instruction in College of Education
Dissertation Title: Effects of Matching Criterion Contamination on the
Identification of Differential Item Functioning
Dissertation Advisor: Dr. Ronna Turner
Post-masters certificate in Educational Measurement
Post-masters certificate in Educational Program Evaluation
University of Arkansas, Fayetteville, AR
- 2005 – 2007 **M.A. in (Secondary) Mathematics Education**
from Department of Mathematical Sciences in Fulbright College
University of Arkansas, Fayetteville, AR
- 2001 – 2005 **B.S. Mathematics with minor in Education**
from Department of Mathematics in College of Health and Science
East Central University, Ada, OK

Professional Experience

- 2016 – present **Associate Director of Graduate Programs in Business Analytics (Teaching Assistant Professor) – University of Arkansas;** Department of Information Systems
Management, recruiting, and advising for non-Ph.D. graduate programs in information systems, including full-time MIS, professional (part-time) MIS, MABA, and Graduate Certificates in Enterprise Systems (Business Analytics, Enterprise Resource Planning, and Information Systems Advising for interdisciplinary Statistics and Analytics Master’s degree program
Teach graduate and upper-level undergraduate “hands-on” analytics courses with high course evaluations
- 2015 – 2020 **School Reform Initiative Consultant;** Okmulgee, Elk City, Beggs, Sapulpa Guymon, and Pryor Public Schools
Provide Professional Learning Community (protocol) training to teachers and administrators with the major goal of improving communication among administrators, faculty, and students

Elizabeth Keiffer, Ph.D.

2012 – 2016	Assistant Director Mathematical Resource and Teaching Center (Clinical Assistant Professor) – University of Arkansas; Department of Mathematical Sciences Taught principles of statistics, statistical method, experimental design Supervise/mentor ~80 instructors and graduate students teaching and professional development Lead curriculum development initiatives in service courses Utilize student outcome data to improve courses and instructional methods
Nov & Dec 2012	Acting Director Mathematical Resource and Teaching Center - University of Arkansas; Department of Mathematical Sciences
2011 – 2012	Instructor – University of Arkansas; Department of Mathematical Sciences Taught project based college algebra, principles of statistics Conducted research on student success in general mathematics courses
2007 – 2011	Adjunct Instructor – University of Arkansas; Department of Mathematical Sciences and Department of Curriculum and Instruction Taught developmental algebra, college algebra, statistics for nursing, research methods Conducted original research concerning mathematics anxiety
2007 – 2011	Research Assistant – University of Arkansas; Department of Curriculum and Instruction Program evaluation consisting of data collection, observations, data entry, conducting statistical analysis, writing technical reports, etc. on multiple grants and programs Conducted original simulation research in differential item functioning

Teaching

Undergraduate Level

ISYS: Business Analytics and Visualization, Business Intelligence, Seminar in Applied Business Analytics

ESRM: Statistics in Nursing

MATH: Beginning and Intermediate Algebra, College Algebra, Mathematical Reasoning, Principles in Statistics (face-to-face and online)

Master's Level

ISYS: Decision Support and Analytics (blended), Seminar in Business Intelligence and Knowledge Management (Data Mining; blended), Practicum

ESRM: Introduction to Research Methods in Education, Statistics Education & Health Profession

MATH: Statistical Methods, Experimental Design

Doctoral Level (volunteer secondary instructor)

ESRM: Educational Statistics and Data Processing (online), Multivariate Statistics

Refereed Publications

- Turner, R. C., **Keiffer, E.** (2018). Impact of unbalanced DIF item proportions on group-specific DIF identification. *Communications in Statistics – Theory and Methods (4th Quarter/Autumn)*.
- Turner, R. C., **Keiffer, E.**, Salamo, G. J. (2017). Observing Inquiry-Based Learning Environments Using the Scholastic Inquiry Observation Instrument. *International Journal of Science and Mathematics Education*, 1-24.
- Murphy, C., **Keiffer, E. A.**, Neal, J., Howton, J. (2016). Customizable Tool for Online Training Evaluation. *Learning, Design, and Technology: An International Compendium of Theory, Research, Practice and Policy*, 1-27.
- Howton, J., **Keiffer, E.**, Murphy, C., Sirsat, S., O'Bryan, C., Ricke, S., Crandall, P., Neal, J. (2015). A Comparison of Food Safety Programs using the Customizable Tool for Online Training. *Food Control*.
- Murphy, C., **Keiffer, E.**, Neal, J., & Crandall, P. (2013). A customizable evaluation instrument to facilitate comparisons of existing online training programs. *Knowledge Management & E-Learning: An International Journal*, 5(3), <http://www.kmel-journal.org>.
- Neal, J., Murphy, C., Crandall, P., O'Bryan, C., **Keiffer, E.**, & Ricke, S. (2011). Development of an evaluation tool for online food safety training programs. *Journal of Food Science Education*.

Non-refereed Publications

- Keiffer, E.** (2011). *Effects of Matching Criterion Contamination on the Identification of Differential Item Functioning*. Doctoral Dissertation, University of Arkansas, Fayetteville.
- Keiffer, E.** (2005). *A Decade of Developmental Algebra at ECU*. Senior Honors Thesis, East Central University, Ada.
- Braddy, L., Duggan, M., Fine, A., **Keiffer, E.**, & Lyle, R. (2004, Spring). How to turn math duds into math studs. *ECU Research Journal*, Number 2, 7 – 12.

Refereed Presentations

- Murphy, C., & **Keiffer, E.** (2016, October). The Impact of Repeat Enrollment and Student Location on Withdrawal Rates in Online Math Courses. *Paper presented at annual conference of Association for Educational Communications and Technology*, Las Vegas, NV.
- Keiffer, E.**, Korth, D., & Terrell, E. (2014, September). Hot Topics: Tips and Tools for Transferring Learning and Meeting QM Standards. *Paper presented at annual conference of Quality Matters*, Baltimore, MD.
- Korth, D., Terrell, E., & **Keiffer, E.** (2014, September). Collaborative Development: Giving Face-to-Face Classes a Facelift While Developing Online Students. *Paper presented at annual conference of Quality Matters*, Baltimore, MD.

- Turner, R. C. , Lo, W. J., **Keiffer, E.** (2013, April). Impact of using a two-step DIF purification process to classify group-specific biased items under unbalanced DIF item proportion conditions. *Paper presented at the annual conference of the National Council on Measurement in Education*, San Francisco, CA.
- Turner, R. C. & **Keiffer, E.** (2013, April). Impact of unbalanced DIF item proportions on group-specific DIF identification. *Paper presented at the annual conference of the American Educational Research Association*, San Francisco, CA.
- Murphy, C., **Keiffer, E.**, Neal, J. & Crandall, P. (2012, November). A customized evaluation instrument to facilitate comparisons across online training programs: CTOTE. *Paper presented at conference of the Association for Educational Communications and Technology*, Louisville, KY.
- Carter, M. & **Keiffer, E.** (2012, April). Mathematics anxiety in the high school classroom: A teacher's perspective. *Paper presented at annual conference of the American Educational Research Association*, Vancouver, Canada.
- Keiffer, E.**, & Tuner, R. (2011, April). Differentiating between math performance concerns and types of math anxiety-related sources. *Poster presented at annual conference of the American Educational Research Association*, New Orleans, LA.
- Turner, R. C., Gitchel, W. D., & **Keiffer, E.** (2011, April). Comparing type I error and power rates in DIF analyses when combining significance tests with effect size criteria. *Paper presented at the annual conference of the National Council on Measurement in Education*, New Orleans, LA.
- Keiffer, E.**, Turner, R., Carter, M., & Gitchel, W. D. (2010, May). Is it really mathematics anxiety? Classification of college student perceptions. *Paper presented at annual conference of the American Educational Research Association*, Denver, CO.
- Turner, R., **Keiffer, E.**, & Gitchel, W.D. (2010, May). Observing inquiry-based learning environments: The scholastic inquiry observation (SIO) instrument. *Paper presented at the annual conference of the American Educational Research Association*, Denver, CO.
- Non-refereed/Industry Presentations/Workshops**
- Douglas, D. & **Keiffer, E.** (2019, March). Data Visualization Principles with an Introduction to Tableau. *Workshop at Southwest Decision Sciences Institute annual meeting*, Houston, TX.
- Mullins, J. & **Keiffer, E.** (2019, February). The ABCs of Cognitive Biases in Analytics. *Invited talk given at Tyson Analytics Community Summit*, Springdale, AR.
- Keiffer, E.**, & Mullins, J. (2018, November). Defining Citizen Data Scientist for Tyson. *Invited talk given at Tyson Analytics Community Summit*, Springdale, AR.
- Freeze, R, **Keiffer, E.**, & Syler, R. (2018, April). Business Analytics: Empowering the Citizen Data Scientist. *Talk given at Blockchain Basics, Value Propositions, and Technology Conference*, Fayetteville, AR.
- Douglas, D. & **Keiffer, E.** (2018, March). Introduction to Predictive Analytics. *Workshop at Southwest Decision Sciences Institute annual meeting*, Albuquerque, NM.

Elizabeth Keiffer, Ph.D.

- Korth, D., **Keiffer, E.**, & Crisel, B. (2015, April). Math Placement Test Meets Math Boot Camp. *Paper presented at annual conference of the Mathematical Association of America – Oklahoma/Arkansas Meeting*, Tulsa, Oklahoma.
- Robinson, S., Roddy, J., & **Keiffer, E.** (2014, April). A Statistical Outlier: An Approach to Successfully Resequencing Main Topics in Introductory Statistics Courses. *Paper presented at annual conference of the Mathematical Association of America – Oklahoma/Arkansas Meeting*, Searcy, Arkansas.
- Keiffer, E.** (2014, February). Mathematics anxiety: Fact or fiction. *Talk given at Coweta Public Schools Professional Development Day*.
- Keiffer, E.** (2013, April). Mathematics anxiety: Statistically speaking. *Talk given at University of Arkansas Fort Smith Mathematics Department Colloquium Series*.
- Keiffer, E.** (2013, June). A journey of classifying mathematics anxiety. *Talk given at University of Arkansas Fayetteville Mathematics Master Teaching Workshop*.
- Keiffer, E.**, & Turner, R. (2009, March). Developing brilliant professors you can understand. *Paper presented at the OK-AR Mathematical Association of America Section Meeting*, Weatherford, Oklahoma.
- Keiffer, E.**, & Braddy, L. (2005). How to turn math duds into math studs. *Paper presented at the OK-AR Mathematical Association of America Section Meeting*, Ada, Oklahoma and at the TORUS Conference, Lawton, Oklahoma.
- Braddy, L., **Keiffer, E.**, & Carter, M. (2004). How to turn math duds into math studs – II. *Poster presented at the Annual Research day for Regional Universities*, Edmond, Oklahoma.
- Braddy, L., **Keiffer, E.**, & Lyle, R. (2003). How to turn math duds into math studs – I. *Poster presented at the Annual Day for Regional Universities*, Edmond, Oklahoma.

Service

2016 – present “All Things Analytics” (coordinate undergraduate and graduate analytics curriculum),
Information Systems Department
Summer 2016 Committee Member, Instructor Search Committee, Information Systems Department
2014 – 2016 Institutional Review Board Member, University of Arkansas

Professional Memberships (Past & Present)

American Statistical Association
Mathematics Association of America
National Council of Teacher of Mathematics
American Educational Research Association
National Council of Measurement and Evaluation

Awards

2017 *Walton College Outstanding Team Achievement Award*; University of Arkansas
2015 *Department of Mathematical Sciences co-Professor of the Year*; University of Arkansas
2014 *Journal of Food Science Education* – recognized for having the most downloaded paper (“Development of an Evaluation Tool for Online Food Safety Training Programs”) from the past 2 publishing years (2012 – 2014)
2013 *Arkansas Women in Statistics and Mathematics Appreciation Award*; University of Arkansas
2009 *Outstanding Doctoral Students in Educational Statistics and Research Methods Program*; University of Arkansas
2005 *Academic Achievement Award* (top two graduates in mathematics department for the 2004-2005 academic year); East Central University
2004 *Outstanding Poster Presentation*; Annual Research Day for Regional Universities
2003 *Estep Award* (top sophomore for the 2002-2003 academic year); East Central University
2002 *Estep Award* (top freshman for the 2001-2002 academic year); East Central University

Elizabeth Keiffer, Ph.D.

Professional References

Dr. Deborah Korth, Director of Fulbright College Student Success, University of Arkansas

Phone: (479) 575 – 7661

Email: dkorth@uark.edu

Past supervisor. Can speak about coordinating and supervising experience, administrative team member participation, teaching experience, and organization skills.

Dr. Ronna Turner, Professor, Department of Rehabilitation, Human Resources, and Communication Disorders, University of Arkansas

Phone: (479) 640 – 2348

Email: rcturner@uark.edu

Doctoral advisor. Can speak about team member participation, teaching experience, organizational skills, and ability to multi-task.

Dr. Cheryl Murphy, Vice Provost for Distance Education, University of Arkansas

Phone: (479) 575 – 5111

Email: cmurphy@uark.edu

Colleague. Can speak about team member participation, organizational skills, and ability to multi-task.

Dr. Wen-Juo Lo, Associate Professor, Department of Curriculum and Instruction, University of Arkansas

Phone: (479) 575 – 6321

Email: wlo@uark.edu

Doctoral professor.

Curriculum Vitae

Steven Michael Nolan

EDUCATION:

University of Arkansas, Fayetteville, AR. May 2017. M.S. Major: Information Systems
Colorado Mesa University, Grand Junction, CO. May 2012. B.S. Major: Information Systems
Colorado Mesa University, Grand Junction, CO. May 2012. B.A. Business Management

EMPLOYMENT:

Instructor

University of Arkansas, Fayetteville, AR July 2017 - Present

Director of Assessment and Planning

University of Arkansas, Fayetteville, AR June 2016 – July 2017

Data Analyst

University of Arkansas, Fayetteville, AR August 2015 – June 2016

Interface Analyst

Quality Health Network, Grand Junction, CO May 2012 – May 2015

ADMINISTRATIVE ACCOMPLISHMENTS and RESPONSIBILITIES:

Instructor

University of Arkansas, Fayetteville, AR July 2017 – Present

The University of Arkansas is consistently ranked among the nation's top public research universities and best values. The Carnegie Foundation classifies the university as having "the highest possible level of research," placing us among the top 2 percent of colleges and universities nationwide. Founded in 1871 as a land-grant institution, the University of Arkansas is the flagship of the University of Arkansas System. The university enrolls 27,000 students represent all 50 states and more than 120 countries. The U of A has 10 colleges and schools offering more than 210 academic programs. The University of Arkansas is accredited by the Higher Learning Commission.

As an instructor for the Walton College of Business Department of Information Systems, I have had the responsibility to teach both at the undergraduate and graduate level. I strive on teaching excellence while offering a wide variety of support, such as advising and real world exposure, to our students. Some key accomplishments include:

- Obtained consistent excellence in teaching from student course feedback on both the graduate and undergraduate surveys
- Assisted in course designing for business information systems and our graduate business analytics and knowledge management
- Effective at teaching both in an online format as well as in seat format

Director of Assessment and Planning

University of Arkansas, Fayetteville, AR June 2016 – July 2017

As the Director of Assessment and Planning, I have had, or share responsibility, for assessment, evaluation, and research for the Division of Student Affairs. I work closely with the Vice Chancellor of Student Affairs and the Associate Vice Chancellor of Business Services to ensure evidence-based decision making and proper assessment, evaluation, and research is conducted to enhance the mission and vision of Student Affairs and the university. Some accomplishments include:

- Assisting in the development of the Division of Student Affairs Co-Curricular Competencies designed to improve student outcomes.
- Supervising a graduate assistant on assessment and strategic planning
- Aided the Vice Chancellor of Student Affairs in developing the strategic plan for the division
- Member of the committee on the request for proposal ERP system for the entire university system
- Assisted in the student affairs capital campaign
- Member of the Student Affairs Leadership Team
- Aided the university in the accreditation process
- Lead the Request for Proposal process for our student engagement software

Data Analyst

University of Arkansas, Fayetteville, AR August 2015 – June 2016

As the data analyst for the Division of Student Affairs, my responsibility was to establish a way to show evidence-based decision making for the departments of Student Affairs. We ran statistical and descriptive analytics in order to improve student success and offer solutions on various programs and opportunities. Some of my key accomplishments were:

- Managed 20 to 30 data analytic projects a month on student data to improve strategic initiatives and programs for the Division of Student Affairs
- Performed consulting and assist 23 directors with data needs and enforce departmental goals and learning outcomes
- Created over 120 advanced graphical excel models for presentation pitches and reports of student data
- Constructed a benchmark and reporting system for data collection and reporting for 11 departments in student affairs
- Spearheaded an improvement initiative to reduced turnaround time for data request and analysis by more than 50%
- Coordinated with 23 directors and dean of students for best practices and needs for data in budgetary presentations

Interface Analyst

Quality Health Network, Grand Junction, CO May 2012 – May 2015

Quality Health Network provides physicians and other medical providers with the advanced information exchange technology and the support they need for efficient, effective delivery of high-quality care. By providing a single online resource for exchanging health information securely with multiple colleagues and organizations Quality Health Network is able to give your medical team access to accurate, real-time information regarding your health.

This exchange of information is accomplished through the secure electronic movement of health-related information utilizing nationally recognized standards and policies, called health information exchange (HIE). HIE is key to ensure high quality, more efficient and cost effective patient care. As patients move from one healthcare setting to another, HIE makes sure their appropriate health information is available at the point of care when and where it's needed.

As the interface analyst for Quality Health Network, my responsibilities ranged for interface connectivity to working physicians and information officers on a wide variety of clinical and technical issues. I worked closely with clinical account managers, our Chief Information Officer, and our Chief Executive Officer to ensure that data and connectivity was performed and that we achieved our mission and vision. Some additional accomplishments include:

- Performed as a liaison between clinical and administration staff to analyze problems and projects for 800 providers
- Developed relationships with 210 healthcare companies contributing to 25% of annual revenue
- Aided interface team in implementation and testing of 4 core software upgrades and feature developments
- Used interface development tools to create data sharing for 11 hospitals and 210 healthcare organizations
- Analyzed requirements and provide guidance for reports, forms, and data extraction results within 5 business days
- Led project management functions for 8 to 12 interface projects as part of an interface development team
- Collaborated on phone triage and support management for 800 clients to ensure timely resolution of issues
- Led and contributed in development, testing, and deployment of a multi-million dollar new software migration

PROFESSIONAL ORGANIZATIONS and MEMBERSHIPS:

Association of Information Technology Professionals (2012)

Student Affairs Assessment Leaders (2015-2018)

RESEARCH INTERESTS

Health information technology and prediction models to drive health efficiency

Gaming/Simulation exercises to develop leadership and motivational effectiveness

Big Data effectiveness and storage/retrieval techniques

GRANTS

Housing grant \$8,000 (2017)

SAS Viya Grant (2018-2020)

ACADEMIC RECOGNITION:

Colorado Mesa University President's List (2012)

Honorable mention award at the National Collegiate Conference in business analytics (2012)

University of Arkansas' Golden Tusk Award for outstanding work (2016)

PUBLISHED ABSTRACTS AND PRESENTATIONS:

Best paper award and publication proceedings at the Mountain Plains Management conference

TEACHING:

Business Database Systems (2016 -Present)

Business Information Systems (2017 - Present)

Business Analytics (2018 - Present)

Business Intelligence (2017 -Present)

Business intelligence and knowledge management (2017 - Present)

Data Analysis and Interpretation (2018)

Business Project Development (2018)

UNIVERSITY SERVICE:

Member, Division of Student Affairs Strategic Planning Committee, UARK (2016-2018)

Member, Division of Student Affairs Leadership Team, UARK (2016-2018)

Member, Information Systems undergraduate curriculum committee (2018 - Current)

Member, Information Systems strategic planning committee (2019 - Current)

Timothy Paul Cronan

*M. D. Matthews Chair in Information Systems and
Professor, Information Systems*

Sam M. Walton College of Business

University of Arkansas, Fayetteville, AR 72701

(479) 575-6130

pcronan@walton.uark.edu

Brief Biography

Dr. Cronan is Professor of Information Systems and holds the M. D. Matthews Chair in Information Systems, at the Sam M. Walton College of Business, University of Arkansas, Fayetteville, AR. Dr. Cronan received the doctorate degree from Louisiana Tech University and is currently Director of the Graduate Programs in the Information Systems Department at the University of Arkansas, Fayetteville. In the past he has served as Vice Chair of the Information Systems department and Co-Director of the University of Arkansas Teaching and Faculty Support Center. He was instrumental (Co-Chair, Faculty Senate Committee for Academic Integrity) in a major substantive revision of the University of Arkansas Academic Integrity Policy. He is an active member of the Association for Information Systems, the Decision Sciences Institute, and the Association for Computing Machinery. He has served as Regional Vice President and on the Board of Directors of the Decision Sciences Institute and as President of the Southwest Region of the Institute. In addition, in the past he has served as Associate Editor for *MIS Quarterly*. His teaching interests include project management and project development, business analytics, database management, and information technology management. His research interests include information systems ethical behavior, academic integrity, user learning, enterprise resource planning, work groups, change management, performance analysis and effectiveness, and end-user computing. Publications have appeared in *MIS Quarterly*, *Decision Sciences*, *Journal of Business Ethics*, *Information and Management*, *OMEGA The International Journal of Management Science*, *The Journal of Management Information Systems*, *Communications of the ACM*, *Journal of Organizational and End User Computing*, *Database*, *Journal of Research on Computing in Education*, *Journal of Financial Research*, as well as in other journals and *Proceedings* of various Conferences.

Education:

DBA (Quantitative Analysis/IT/Computer Science), Louisiana Tech University, 1979.
MS (Economics), South Dakota State University, 1975.
BS (Computer Science), University of Southwestern Louisiana, 1972.

Teaching Interests:

Information Systems, Business Analytics, Information Systems, Project Management, Enterprise Systems, Data Base, Research

Experience:

2004 – Present	M.D. Matthews Chair in Information Systems
1986 – Present	Professor, University of Arkansas, Information Systems
1986 – Present	Director, Information Systems Graduate Programs
2003 – Present	Director/Co-Director, Enterprise Systems (ERP, SAP, Blockchain)
2011 – 2014	Co-Director, UA Teaching and Faculty Support Center
2006 – 2010	Vice Chair, Information Systems Department
1992 – 1994	Co-Founder/Co-Director, Teaching and Faculty Support Center
Fall 1991 – 2004	M.D. Matthews Lectureship
Fall 1988	Visiting Scholar, University of Minnesota, Management Information Systems
1982 – 1986	Associate Professor, University of Arkansas, Data Processing and Quantitative Analysis
1979 – 1982	Assistant Professor, University of Arkansas, Data Processing and Quantitative Analysis
1978 – 1979	Instructor, Louisiana Tech University, Quantitative Analysis
1972 – 1976	United States Air Force

Teaching Philosophy:

Teaching in the professorate today means transferring both knowledge and the tools for creating knowledge to others. Consequently, as a professor, I strive to know the subject matter, to know the students, and to know how to help them create knowledge. For me, this means teaching others how to learn for themselves. All of us are students who want to make a better life for ourselves and for others. As a student of Information Systems (IS), my responsibility is to continually learn more about this dynamic field of study. I enjoy creating new knowledge in my research which is then transferred directly into the classroom. In addition, I have the responsibility of teaching students how to maintain currency and how to create new knowledge in this exciting and ever changing field of business computing.

It is important to consider the whole person in the learning process--classes, advising, background, current life experiences, and interests, among others. My role as a teacher is to help students to practice concepts that will help them solve business problems using computers. Students who come to the University are women and men who simply want to learn how to live productive lives. As a teacher, I help students discern how the IS discipline fits into their lives. With presence and individual attention, I demonstrate to students that I care about them.

Professional Affiliations:

International Center for Academic Integrity (ICAI), Decision Sciences Institute, International Association for Computer Information Systems, Association for Information Systems, Association for Computing Machinery (ACM), Alpha Iota Delta, Southwest Decision Sciences Institute, Omicron Delta Epsilon, Society of Data Educators

Awards:

- **(Fall 2019) Lifetime Distinguished Educator Award, Decision Sciences Institute (DSI)**
- **(Fall 2018) University of Arkansas nominee - Robert Foster Cherry Award for Great Teaching** – Baylor University award (for non-Baylor faculty) to honor great teachers, stimulate discussion in the academy about the value of teaching, and encourage departments & institutions to value their own great teachers.
- **(March 2010) Majdi Najm Outstanding Service Award (SAP International)**
the Majdi Najm Outstanding Service Award is given annually to an individual or individuals who have provided outstanding service to the SAP University Alliances program.
- **2006 IBM Faculty Award, IBM**
- Chosen by students as "**Favorite Instructor**," (multiple semesters).
- **2005 Outstanding Educator Award, Southwest Decision Sciences.**
- **Walton College of Business Best Overall Faculty Member** (Teaching, Research, & Service), (Spring, 2000).
- **1996 Distinguished Service Award, Southwest Decision Sciences Institute.**
- **1995 Computer Educator of the Year, International Association for Computer Information Systems.**
- **Phillips 66 Faculty Excellence Award in Research**, University of Arkansas, College of Business (1994, 1992).
- **Outstanding Computer Science Alumni**, University of Southwestern Louisiana (1990).
- Named to **University of Arkansas Teaching Academy--Charter Member** (1988).
- **Distinguished Achievement in Teaching, University of Arkansas**, recipient of the twenty-first annual Faculty Achievement Award for the Arkansas Alumni Association (1981).
- **Outstanding Teaching Award** for the College of Business (1981).
- Computer Information Systems and Quantitative Analysis Department **Outstanding Teaching and Research Award** (1988, 1989).
- Data Processing and Quantitative Analysis Departmental **Outstanding Research Award** (1984, 1985).

Professional Offices and Services:

- President/Past President, Alpha Iota Delta
- Associate Editor, *Journal of End User Computing*.
- Editorial Review Board, *Journal of Computer Information Systems*.
- Associate Editor, *MIS Quarterly*, Special Issue--Information Systems Curricula and Pedagogy, 1994.
- Associate Editor, *MIS Quarterly*, 1990-1993.
- President, Southwest Federation of Administrative Disciplines, 1997-1998.
- President, Southern Association of Information Systems, 1997-1998.
- Vice President, Programs, Southwest Federation of Administrative Disciplines, 1996-1997.

- President, University of Arkansas Teaching Academy, 1994-1995.
- Secretary/Treasurer, Southwestern Federation of Administrative Disciplines, 1993-1997, 1998-1999.
- Vice President and Board of Directors, Decision Sciences Institute, 1989-91.
- President, Southwest Decision Sciences, 1988.
- President Elect, Southwest Decision Sciences Institute, 1987.
- Vice President, Programs, Southwest Decision Sciences Institute, 1986.
- Vice President, Membership, Southwest American Institute for Decision Sciences, 1985.
- Vice President for Student Liaison, Southwest American Institute for Decision Sciences, 1981, 1983.

Interests and Goals:

- Teaching courses at the undergraduate and graduate levels covering topics related to business analytics and information systems, to include database, computer applications, and development.
- Advising and counseling students in career planning for computer-related job opportunities.
- Conducting research in areas which will promote integrity and support the educational community, classroom, and continuing education goals.

Noteworthy Teaching Accomplishments:

- Curriculum Development:
 - o Developed a blended instruction (online plus face-to-face) for the Professional Master of Information Systems degree program
 - o Data and Cybersecurity Management (*in progress*): Major Concentration (undergraduate and graduate), College Minor, Graduate Certificate
 - o Blockchain Systems (2019): Major Concentration (undergraduate and graduate), College Minor, Graduate Certificate
 - o Business Analytics (2011): Major Concentration (undergraduate and graduate), College Minor, Graduate Certificate
 - o ERP (2002): Major Concentration (undergraduate and graduate), College Minor, Graduate Certificate
- Undergraduate Courses: Information Systems, Business Analytics, Senior Project Development, Structured COBOL, Data Base, Centralized Data Systems, Systems Development, and Freshman Business Connections.
- Graduate Courses:, Data Base Systems, Business Analytics and Decision Support, Global Information Systems, IT Internship, Seminar in Management Information Systems, Graduate Colloquium, Seminar in Computer Information Systems Research, and Management Information Systems (MBA).

Instructor/Course Evaluations (Fall 2011 to present):

<u>Year</u>	<u>Sem</u>	<u>Course</u>	<u>Instr¹</u>	<u>Course²</u>	<u>Instr³</u>	<u>Course⁴</u>
2014	Spring	Project Development (Capstone)	4.93	4.85	4.15/4.27	4.03/4.08
	Fall	Project Development (Capstone)	4.79	4.57	3.72/4.18	3.54/4.02
	Fall	Decision Support Analytics	4.10	3.90	3.72/4.18	3.54/4.02
	Sum	Advanced Business Analytics	5.00	4.67	4.47/4.40	4.25/4.25
2015	Sum	Advanced Business Analytics	5.00	4.91	4.81/4.59	4.65/4.44
	Fall	Project Development (Capstone)	4.64	4.45	3.59/4.19	3.46/4.03
	Fall	IT Internship	4.86	5.00	3.59/4.19	3.46/4.03
2016	Spring	Decision Support Analytics	4.84	4.60	4.52/4.56	3.88/4.00
	Sum	Advanced Business Analytics	4.71	4.57	4.90/4.45	4.60/4.04
	Sum	Global IT	4.89	4.50	4.90/4.45	4.60/4.04
	Fall	Project Development (Capstone)	4.93	4.50	3.94/4.25	3.78/4.09
2017	Sum	Advanced Business Analytics	4.89	4.63	4.78/4.70	4.22/4.23
	Spring	Decision Support Analytics	4.80	4.50	4.10/4.27	3.91/4.12
	Fall	Project Development (Capstone)	4.50	4.40	4.75/4.71	4.04/4.15
2018	Sum	IT Internship	5.00	5.00	5.00/4.74	4.36/4.54
	Sum	Global IT	4.65	4.29	4.72/4.66	4.36/4.54
2019	Sum	IT Internship	5.00	5.00	5.00/4.74	4.36/4.54
	Sum	Global IT	4.65	4.29	4.72/4.66	4.36/4.54
	Fall	Project Development (Capstone)	<i>not yet available</i>			

Instr¹: Overall I would rate this instructor (5-Excellent; 4-Good; 3-Fair; 2-Poor; 1-Very Poor)

Course²: Overall I would rate this instructor (5-Excellent; 4-Good; 3-Fair; 2-Poor; 1-Very Poor)

Instr³: Average instructor scores for the Information Systems Department (for comparison)

Course⁴: Average instructor scores for the Walton College (for comparison)

Refereed Publications:

"Enterprise Systems Knowledge, Beliefs, and Attitude: A Model of Informed Technology Acceptance," (with Mullins, J. K.), *International Journal of Information Management*, (August 2021), 1 - 13.

"Blockchain Governance: Turning Competition into Teammates," (with Lacity, Mary C. and Zach Steelman) posted on Walton Insights by Ryan Sheets - <https://walton.uark.edu/insights/blockchain-governance.php>

"Further Understanding Factors that Explain Freshman Business Students' Academic Integrity Intention and Behavior: Plagiarism and Sharing Homework," (with Mullins, J. K., &

Douglas, D. E.), *Journal of Business Ethics*, (2018) 147(1), 197-220.
<https://doi.org/10.1007/s10551-015-2988-3>.

Academic Integrity: Information Systems Education Perspective - Special Issue, (with McHaney, R., & Douglas, D. E.), 27(3), (2016), 147–158.

“Changing the Academic Integrity Climate on Campus Using a Technology-Based Intervention,” (with Mullins, J. K., & Douglas, D. E.), *Ethics & Behavior*, (2016),
<http://dx.doi.org/10.1080/10508422.2016.1161514> pp. 1–17.

"An Online Graduate Certificate Credential Program at the University of Arkansas", (with Douglas, D. E., & Mullins, J. K.) in *Reshaping Society through Analytics, Collaboration, and Decision Support; Role of Business Intelligence and Social Media*, Vol. 18, (2015), pp. 239–247.

“Developing and Assessing Management Information Systems Competencies: The Role of Basic and Complex Knowledge” (with Pierre M. Leger and others), *Journal of Computer Information Systems*, Vol. 56, No. 1 (Fall 2015), pp. 31-39..

“An Online Graduate Certificate Credential Program at the University of Arkansas; in "Reshaping Society through Analytics, Collaboration, and Decision Support; Role of Business Intelligence and Social Media"" (with David Douglas and Jeff Mullins), *Annals of Information Systems*. Vol. 18. (2015), pp. 239-248.

“Neurophysiological Correlates of Cognitive Absorption in an Enactive Training Context” (with Fred Davis and Pierre Marjoric-Leger), *Computers in Human Behavior*, Vol. 34, (2014), pp. 273-283.

“Assessing ERP Learning (Management, Business Process, & Skills) and Attitudes” (with David E. Douglas), *Journal of Organizational and End User Computing*, Vol. 25, No. 2 (April-June, 2013), pp. 59-74.

“A Student ERP Simulation Game: A Longitudinal Study " (with David E. Douglas), *Journal of Computer Information Systems*, Vol. 53, No. 1 (Fall 2012), pp. 3-15.

“Authentic OM Problem Solving in ERP Context " (with others), *Journal of Operations and Production Management*, Vol. 32, No. 12, (2012) pp. 1375-1394.

“Comparing Objective Measures and Perceptions of Cognitive Learning in an ERP Simulation Game: A Research Note” (with others), *Simulation & Gaming*. Vol. 43, No. 4, (August 2012), pp. 461-480.

“Decision Analytics in an Integrated Business Process Context: Learning Using an ERP Simulation Game”(with David E. Douglas, P. Schmidt), *Decision Sciences Journal of Innovative Education*, Vol. 9, No. 2, (May 2011), pp. 227-234.

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- "Piracy, Computer Crime, and IS Misuse at the University," (with Thomas Jones and Brian Foltz), originally published in *Communications of the ACM*, Vol. 49, No. 6 (June 2006). (2008) edition. Annual Editions: *Computers in Society*, Issue 9, (August 2008).
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- "Equity Perceptions as a Deterrent to Software Piracy Behavior", (with David E. Douglas and James D. Behel), *Information and Management*, Vol. 44 (2007), pp. 503-512.
- "Digital Piracy: Factors That Influence Attitude Toward Behavior". (with Sulaiman Al-Rafee) *Journal of Business Ethics*, Vol. 63 (2006), pp. 237-259.
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- "Issue-Contingent Ethical Views – A Comparison Using Pathfinder Associative Networks," (with Jennifer Kreie, Kerry Alt, and Lori Leonard) *Information Systems Education Journal*, Vol. 4, (2006).
- "An Empirical Validation of Perceived Importance and Behavior Intention in IT Ethics," (with Lori K. Leonard and Jennifer Kreie), *The Journal of Business Ethics*, Vol. 56 (2005), pp. 231-238.
- "Have You Met Your Organization's Computer Usage Policy?" (with Thomas W. Jones and Bryan C. Foltz) *Industrial Management and Data Systems*, Vol. 105, No. 2 (2005), pp.137-146.
- "Electronic Supply Chain Management: Does the Consumer Benefit?", (with L. N. K. Leonard) *International Journal of Integrated Supply Management*, Vol. 1, No. 3 (2005), pp. 335-343.
- "IS Ethics: A Cross-Cultural Comparison", (with Al-Rafee, S., and Haji J.) *The Arabian Journal of Administrative Sciences*. Vol. 11, No. 2 (May 2004), pp. 245-268.

- “A Comparison of English versus Arabic for a Software Piracy Instrument”, (with David Douglas and Jafar Ali) *Issues in Information Systems*, Vol. V, No. 1, (2004), pp.103 – 109.
- “What Influences IT Ethical Behavior Intentions - Planned Behavior, Reasoned Action, Perceived Importance, Individual Characteristics?” (with Lori K. Leonard and Jennifer Kreie), *Information & Management*. 42, (2004), pp. 145-158.
- “Website Retailing: Electronic Supply Chain Replenishment,” (with L. N. K. Leonard) in *Advanced Topics in End User Computing*. Vol. III (2004), pp. 52-68.
- “A Study of the Value and Impact of Electronic Commerce: Electronic Versus Traditional Replenishment in Supply Chains,” (with Lori N. K. Leonard) *Journal of Organizational Computing and Electronic Commerce* Vol. 12, No. 4, (2002), pp. 307-327.
- “Success Surrogates in Representational Decision Support Systems - Chapter XV,” (with Roger McHaney) *Advanced Topics in End User Computing*, Idea Group Publishing, Hershey, PA, (2002), pp. 243-262.
- "Training End Users: Assessing the Effectiveness of Multimedia - Based Instruction," (with Sylnovie Merchant and Jennifer Kreie), *Journal of Computer Information Systems*, 41:3, (Spring 2001), pp. 20-25.
- “Electronic Commerce Success Theory: A Proposed Model for Supply Chain Management Success,” (with Lori K. Leonard), *Journal of Information Technology Theory and Application (JITTA)*, 3:2, (2001), pp.1-24.
- “A Comparison of Surrogate Success Measures in Ongoing Representational Decision Support Systems: An Extension to Simulation Technology,” (with Roger McHaney) *Journal of End User Computing*, Vol 13, No. 2, (April-June 2001), pp. 15-25.
- “Chapter 6 - Key Issues in the MIS Implementation Process: An Update Using End User Computing Satisfaction,” (with Peggy L. Lane and Jeffrey Palko), *Strategies for Managing Computer Software Upgrades*, Idea Group Publishing, Hershey, PA, (2001), pp. 55 - 67 (Reprint of JEUC (6:4), 1994).
- “Illegal, Inappropriate, and Unethical Behavior in an Information Technology Context: A Study to Explain Influences,” (with Lori N. K. Leonard), *Journal of the Association for Information Systems*, Vol 1, Art.12, (February, 2001).
- “Making Ethical Decisions: What Would You Do? Can Companies Influence the Decision?,” (with Jennifer Kreie), *Communications of the ACM*, Vol 43 (December, 2000), pp. 66-71.
- “Toward an Empirical Understanding of Computer Simulation Implementation Success,” (with Roger McHaney), *Information & Management*, Vol 37 (2000), pp. 135-151.

- “Applications Development by End Users; Can Quality Be Improved?,” (with Jennifer Kreie, John Pendley, and Janet Renwick), *Decision Support Systems*, Vol 29 (2000), pp. 143-152.
- “LAN Configuration Decisions: An Expert System Simulation (ESS) Approach,” (with Peggy L. Lane and David Douglas), *Journal of Computer Information Systems*, Vol. 40, No. 1 (Fall, 1999), pp. 27-34.
- “Copyright, Piracy, Privacy, and Security Issues: Acceptable or Unacceptable Actions for End Users,” (with Jennifer Kreie), *Journal of End User Computing*, Vol. 11, No. 2, (April - June, 1999), pp. 13-20.
- “Judging What is Ethical or Unethical: There Are Differences Between Men and Women,” (with Kreie), *Communications of the Association for Computing Machinery*, Vol. 41, No. 9 (September, 1998), pp. 70-76.
- “Computer Simulation Success: On the Use of User Acceptance and Computing Satisfaction Instruments,” (with McHaney), *Decision Sciences*, Vol. 29, No. 2 (Spring, 1998), pp. 525-536.
- “Modeling IT Ethics: A Study of Situational Ethics,”(with Banerjee and Jones), *MIS Quarterly*, Vol 22, No. 1 (March, 1998), pp. 31-60.
- “Software Maintenance: An Empirical Study of the Influence of Maintenance Characteristics on User Information Satisfaction,” (with White), *The Journal of Computer Information Systems*, Vol 38, No. 1 (Fall, 1997), pp. 1-14.
- “Demographic Variables Affecting the Ethical Behavior of IS Personnel,” (with Debasish Banerjee and Thomas W. Jones), *Industrial Management and Data Systems*, Vol. 96, No. 3, (1996), pp. 3-10.
- “In Defense of Good Teaching in the Profession: We Must Do, What We Do, the Best We Can!,” *Journal of Computer Information Systems*, Vol. 36, No. 2, (Winter 1995) , pp. 1-3.
- "Comments on 'Economic Analysis of Microcomputer Hardware:' Technical Correspondence," (with Massey and O'Keefe), *Communications of the ACM*, Vol. 37, No. 12 (December 1994), pp. 103-105.
- "Key Issues in the MIS Implementation Process: An Update Using End User Computing Satisfaction," (Lane and Palko), *Journal of End User Computing*, Vol. 6, No. 4 (Fall, 1994), pp 3-13.
- "On the Repeated Test-Retest Reliability of the End User Computing Satisfaction Instrument: A Comment,"(with Hendrickson and Glorfeld), *Decision Sciences*, Vol. 25, No. 4 (July/August 1994), pp. 655-667.

- "On Altman's Failure/NonFailure Model: A Comparison of Discriminant, Logit, Nearest Neighbor, and Neural Network Models," (with Banerjee and Jones), *Journal of Business and Entrepreneurship*, Vol. 6, No. 2, (July 1994), pp. 29-37.
- "On the Test-Retest Reliability of Perceived Usefulness and perceived Ease of use Scales," (with Hendrickson and Massey), *MIS Quarterly*, Vol. 17, No. 2 (June 1993), pp.227-230.
- "Information Systems Development: Issues Affecting Success," (with McDoniel and Palko), *The Journal of Computer Information Systems*, Vol. 34, No. 1 (Fall 1993), pp. 50-62.
- "Computer Information Satisfaction: A Longitudinal Study of Computing Systems and EUC in a Public Organization," (with K. Glorfeld), *Journal of End User Computing*, Vol. 5, No. 1 (Winter 1993), pp. 27-36.
- "User Information Satisfaction for maintained Accounting Systems: The Validity and Reliability of the Short-Form Measure," (with White), *The Journal of Computer Information Systems*, Vol. 33, No. 3 (Spring 1993), pp. 2-10.
- "Production System Development for Expert Systems Using a Recursive Partitioning Induction Approach: An Application to Mortgage, Commercial, and Consumer Lending," (with L. Glorfeld and Perry), *Decision Sciences*, Vol. 22, No. 4 (September/October 1991), pp. 812-845.
- "An Empirical Analysis of LAN Benchmarks: Technical Correspondence," (with Luster and Douglas), *Communications of the ACM*, Vol. 34, No. 10 (October 1991), p. 133 and Vol. 34, No. 12 (December 1991).
- "High School Business Computing Programs of Instruction: An Arkansas Profile," (with Chaney and Turner), *The Journal of Computer Information Systems*, Vol. 32, No. 1 (Fall 1991), pp. 17-23.
- "Performance Decision Rules for Students in an Introductory Information Systems Course: A Recursive Partitioning Approach," (with Kattan), *The Journal of Computer Information Systems*, Vol. 31, No. 4 (Summer 1991), pp. 77-87.
- "Overlooked Distinctions in MIS Research: Learning from the Management Foundation," (with F. Moussavi), *Journal of Management Systems*, Vol. 3, No. 2 (1991) pp 39-52.
- "Computer Systems in Small Professional Organizations: A Discriminant Model for Determining Success Factors," *Journal of Microcomputer Systems Management*, Vol. 2, No. 2 (Spring 1990), pp. 2-12.
- "Perceptual Agreement as an Aggregation Criterion: An Empirical Study of a Debate in Climate Research," (with F. Moussavi and T.W. Jones), *Psychological Reports: Perceptual and Motor Skills*, Vol. 70, (1990), pp. 1335-1344.

- "End-User Training and Computing Effectiveness in Public Agencies: An Empirical Study," (with Douglas), *Journal of Management Information Systems*, Vol. 6, No 4 (Spring 1990), pp. 21-39.
- "Explaining Psychological Climate: Is Perceptual Agreement Necessary?" (with Jones and Moussavi), *Journal of Social Psychology*.
- "An Examination of Consensus between External and Internal Auditors," (with Landry and Letzkus), *EDP Auditors Journal*, Vol. 4, (1989).
- "Budgetary Control and Performance Evaluation," (with Finn and Seaton), *OMEGA The International Journal of Management Science*, Vol. 17, No. 3 (1989), pp. 263-272.
- "A Model for Predicting Performance for Computing Majors in the Business Computer Information Systems Course," (with White and Embry), *The Journal of Computer Information Systems*, Vol. 30, No. 2 (Fall 1989), pp. 27-31.
- "Identifying Factors That Influence Performance of Non-Computing Majors in the Business Information Systems Course," (with White and Embry), *Journal of Research on Computing in Education*, Vol. 21, No. 4 (June 1989), pp. 431-446.
- "A Procedure for Uncovering Acceptable and Nonacceptable Mortgage Applications Through MDA Using Ranked Data," (with Perry and Epley), *The Journal of Real Estate Research*.
- "Forecasting Accounting Information for Auditors' Decision Models," (with Wilson and Glezen), *Advances in Accounting*, Vol. 6 (1988), pp. 267-276.
- "The Use of Rank Transformation and Multiple Regression Analysis in Estimating Residential Property Values with a Small Sample," (with Epley and Perry), *The Journal of Real Estate Research*, Vol. 1, No. 1 (Fall 1986), pp. 19-32.
- "On Application of the Rank Transformation Discriminant Method to Financial Problems," (with Skomp and Seaver), *Financial Review*, Vol. 21, No. 4 (November 1986), pp. 473-483.
- "A Multivariate Analysis of Commercial Loan Applications: Toward a Simplified Application Procedure," An Abstract, (with Perry), *Financial Review*, Vol. 21, No. 3 (August 1986), pp. 75.
- "A Note on Rank Transformation Discriminant Analysis: An Alternative Procedure for Classifying Bank Holding Company Commercial Paper Ratings," (with Perry), *Journal of Banking and Finance*, Vol. 10, No. 4 (December 1986), pp. 605-610.
- "MIS and Computer Applications in Accounting Courses," (with Fries), *Journal of Accounting Education*, Vol. 4, No. 1, (Spring 1986), pp. 237-244.

"Ranking Comparable Properties Prior to Their Use in Regression on a Large or Small Sample," (with Perry and Epley), *The Appraisal Journal*, (January 1986), pp. 57-65.

"An Integrated Microcomputer, Minicomputer, and Mainframe Classroom," (with Douglas), *Journal of Data Education*, Vol. 25, No. 4 (Summer 1985), pp. 20-27.

"Public Sector Applications of Organizational Climate Analysis: Research Note on Newman's Perceived Work Environment," (with others), *Review of Public Personnel Administration*, Vol. 6, No. 1 (Fall 1985), pp. 59-68.

"Industry Classification, Ordinal Data, and Bond Rating Decision Models," (with Perry and Henderson), *Decision Sciences*, Vol. 16, No. 1 (Winter 1985), pp. 14-24.

"Application Systems Development: An Interaction (Communication) Model for Business Uses and DP Personnel," *Data Base Journal*, Vol. 16, No. 1 (Fall 1984), pp. 21-26.

"A Research Note on Discrimination in Mortgage Lending," (with Epley and Perry), *Journal of the American Real Estate and Urban Economics Association*, Vol. 13, No. 4 (1985).

"Rank Transformation and Multiple Regression Analysis: An Alternative Procedure for Estimating Property Value," (with Perry and Epley), *Financial Review*, Vol. 19, (June 1984), p. 44.

"System Development: An Empirical Study of User Communication," (with Means), *Data Base Journal*, Vol. 15, No. 3 (Spring 1984), pp. 25-33.

"Multivariate Analysis of Corporate Bond Ratings and Industry Classifications," (with Perry and Henderson), *Journal of Financial Research*, Vol. VII, No. 1 (Spring 1984).

"Computer System Use in the Finance Major," (with Wilson), *Journal of Financial Education*, Vol. 11 (Fall 1982), pp. 97-100.

"Homogeneous Grouping and Rank Transformation Multiple Discriminant Analysis: A Multivariate Analysis of Industry Classifications Criteria and Industrial Bond Rating Models," (with Perry), *Financial Review*, Vol. 17, No. 2 (July 1982), p. 52.

"Arkansas Personal Income, 1979: Part I," (with Strand), *Arkansas Business and Economic Review*, Vol. 14, No. 4 (Winter 1981).

"An Application of Data Processing and COMPUSTAT in the Finance Classroom," (with Wilson), *Journal of Data Education*, (January 1981), pp. 46-49.

"Business Data Processing Graduates Are in Demand," (with Thibault), *Interface*, Vol. 2, No. 1 (March 1980), pp. 60-64.

Refereed *Proceedings*, Presentations, and Reviewed Handbooks:

“Combining Vicarious and Enactive Training in IS: Does Order Matter?” (with Leger, P.-M., & others.), *Proceedings*, Gmunden Retreat on NeuroIS, 2016.

“The Influence of Group Flow on Group Performance: A Research Program” (with Pierre Marjoric-Leger), *Proceedings*, Gmunden Retreat on NeuroIS 2013, Gmunden, Austria. (June 1 – 4, 2013).

A Handbook for Teaching Assistants; University of Arkansas, 2nd Edition, (1993), Publication for Teaching Assistants at the University.

Teaching at the University: Ideas and Suggestions for Faculty, (1992), Publication for university faculty sponsored by the University of Arkansas Teaching Academy and the Office of Academic Affairs.

Refereed *Proceedings* and Presentations – numerous published *Proceedings* and paper presentations for:

- International Conference on Academic Integrity
- Decision Sciences Institute (International and Southwest)
- Association of Information Systems
- International Association for Computing Systems
- Southern Management Association
- Communications of the ACM
- American Real Estate Society Annual Meeting
- Arkansas Computer Conference
- Arkansas Business Education Association
- others

Funded Projects:

Graduate Programs: Professional Master of Information Systems/Graduate Certificate - \$800,000 professional fees annually for program operation (blended format, faculty, IT, classrooms, etc.,)

Blockchain Center of Excellence - \$250,000 – founding grant from State of Arkansas Governor’s Office, 2018

Enterprise Systems Hardware & Software Grants/Gifts (with D. E. Douglas) - \$10M - \$20M/year – (from 2004 to present)

IBM Hardware/Software for IBM Academic Hub, \$4,457,549/year approximately, *IBM hardware/software to support academic consortium for both internal and external faculty and students*

Microsoft Enterprise Consortium, \$4,470,000 approximately, *Microsoft software to support academic consortium for both internal and external faculty and students*

SAP University Alliances Software, \$14,472,000, approximately, *SAP software to support academic consortium for both internal and external faculty and students*

SAS Analytics Suite of Software, \$40,000 - \$100,000, *SAS Analytics (including SAS Viya, Visual Analytics) suite of software to support students and faculty*

Teradata Hub, \$359,000, *Teradata hardware and software to support students and faculty internally and externally*

Data Mining/ Data Warehouse Server: Microsoft Enterprise Consortium Project (Year 1), (Awarded 2006). Sponsored by Microsoft Corporation, \$111,000. (December 2006 - December 2007).

Enterprise Courseware Module Development -- IBM Academic Initiative, (Awarded 2006). Sponsored by IBM, \$40,000. (August 2006 - June 2007).

SAP-Tyson University Alliance Program - Year 3, (Awarded March 2006). Sponsored by Tyson Foods, \$136,765. (July 2006 - June 2007).

Microsoft Software Gift, (Awarded December 2006). Sponsored by Microsoft Corporation, \$4,470,000.

IBM Software Gift, (Awarded November 2006). Sponsored by IBM, \$1,500,000.

SAP Software Gift, (Awarded December 2006). Sponsored by SAP, \$9,617,000.

SAP Software Grant, (\$8,800,000) 2nd License for IBM z890 Mainframe, December, 2005. In addition, current \$7,280,000 license for Walton servers was renewed.

Tyson Food's ERP/SAP Curriculum Support, (\$150,000), received February, 2005.

Tyson Food's SAP Training Grant, (\$109,450), received September, 2005. The Tyson Foods gift of SAP Training Courses resulted in the following SAP Academies offered:

- SAP Student Certification Academy (sponsored by Tyson Foods)
(December 12–22, 2005) – 24 Walton students will participate in a two-week SAP Level Certification class for SAP Business Process Integration Certification–Entry Level
- SAP Business Warehouse & Large Databases Academy (sponsored by Tyson Foods)
(November 28–December 2, 2005) – Walton and SAP University Alliance faculty attended a customized SAP workshop (advanced concepts of SAP BW).

SAP Software Grant, (SAP Americas, \$7,280,000), (November 2004) (funded)

ERP/SAP Curriculum Support, (Tyson's Foods, \$120,000), (February 2004) (funded)

ERP/SAP Curriculum Support, submitted to Tyson's Foods (\$151,800) (March 2005) (funded)

SAP Software Grant, submitted to SAP Americas (\$7,280,000), (November 2004) (funded)

ERP/SAP Curriculum Support, submitted to Tyson's Foods (\$120,000), (February 2004) (funded)

PC Video Conferencing, submitted to BA Technology Committee (1999) (\$13,000) (funded).

Development of a Teaching Handbook for Faculty, submitted to the University of Arkansas Teaching Academy and Academic Affairs. (Fall 1991) (\$8,000) (funded).

A Study of Key Factors in the Development of an Information Systems Platform Decision Model, (with Douglas), submitted to Texaco Oil and Star Enterprise (Fall, 1990-1991) (\$80,000) (funded).

Toward Improvement of Teaching: Development of a Guidebook for Teaching Assistants, submitted to Teaching Academy and Graduate School. (Summer, 1990 - Spring, 1990) (\$5,600) (funded).

A Proposal for Instructional Computing Equipment for Science Engineering Auditorium, (with Douglas) submitted to Vice Chancellor for Finance and Administration (\$6,500) (funded).

The Business Information Systems Course (CISQ 2233): Toward Improved Instruction, submitted to Academic Affairs, University of Arkansas, (Summer 1988), (Summer 1989), (Summer 1990), (\$2,000) (funded).

The Study of University Computing Administration and Planning, submitted to Computing Services, University of Arkansas (travel grant), (Fall 1988), (\$1,200) (funded).

Arkansas Department of Human Services System Development and Training Project, submitted in conjunction with the University of Arkansas at Little Rock to Arkansas Department of Human Services, (renewed through December 1987), (\$16,594) (funded).

Arkansas Department of Human Services System Development and Training Project, submitted in conjunction with the University of Arkansas at Little Rock to Arkansas Department of Human Services, (renewed through September 1987), (\$30,888) (funded).

Computer System Satisfaction: A Discriminant Model for Small Businesses, submitted to the College of Business Administration, University of Arkansas, (1986), (\$3000) (funded).

Arkansas Department of Human Services System Development and Training Project, submitted in conjunction with the University of Arkansas at Little Rock to Arkansas Department of Human Services, (1986), (part of a \$250,000 project), (\$10,200) (funded).

Title XX Training Project, submitted in conjunction with the University of Arkansas at Little Rock to Arkansas Department of Human Services, (1985), (\$7,290) (funded).

Commercial Loan Scoring Models: Problems and Recommendations for Arkansas Banks, (with Perry), submitted to Worthen Banking Corporation, (1984-1985), (\$5,000) (funded).

Discriminatory Practices in Mortgage Lending, (with Perry and Epley), submitted to College of Business Administration, University of Arkansas, (1983), (\$4,223.34) (funded).

Comprehensive Project to Improve Science Instruction Using Computer Assisted Instruction, submitted to National Science Foundation, (1981). Principal Investigator: Mr. Walt Frey, Carl Albert Junior College. (\$300,000), consultant.

QIN WENG

Assistant Professor, Information Systems, Sam M. Walton College of Business,
University of Arkansas, Fayetteville, AR 72701 • qinweng@uark.edu

ACADEMIC EMPLOYMENT

Assistant Professor, Sam M. Walton College of Business, University of Arkansas (2018 – current)

EDUCATION

PhD, University of Pittsburgh, Pittsburgh, Pennsylvania
Information Systems, Katz Graduate School of Business
Advisor: Laurie J. Kirsch

MS, Virginia Commonwealth University, Richmond, Virginia
Information Systems, Information Engineering Track, School of Business
Advisor: Allen S. Lee

BA, Beijing Foreign Studies University, Beijing, China
International Business, School of English Language Communication

PUBLICATIONS

Qin Weng, Wendy Wang, Jignya Patel (2019) "Exploring the Formation of IT Identity: A Technology-Value Fit Model," ***Proceedings from 25th Americas Conference on Information Systems***, Cancun, Mexico, August.

Qin Weng (2018). "Why Do Project Participants Work Together? An Investigation of the Antecedents of Collaboration Tie Strength in Cyberinfrastructure Projects," ***Doctoral Dissertation***, University of Pittsburgh. (Chaired by Laurie Kirsch).

Gregory D. Moody, Laurie J. Kirsch, Sandra A. Slaughter, Brian Kimball Dunn, Qin Weng (2016) "Facilitating the Transformational: An Exploration of Control in Cyberinfrastructure Projects and the Discovery of Field Control," ***Information Systems Research*** 27(2): 324-346.

Laurie J. Kirsch, Qin Weng (2012) "IT Standards", ***Wiley Encyclopedia of Management***, 3rd Edition, Volume 7, Management Information Systems.

Qin Weng, Nikhil Sharma, Brian S. Butler (2011) "Just-in-time Knowledge: Knowledge Mobilization in a Public Health Network," ***Proceedings from 17th Americas Conference on Information Systems***, Detroit, August.

Kendall Giles, K-M. Bryson, Qin Weng (2001) "Comparison of Two Families of Entropy-Based Classification Measures with and without Feature Selection," ***Proceedings from 34th Hawaii International Conference on Systems Sciences***, IEEE.

PRESENTATIONS

Qin Weng, Wendy Wang, Amber Young (2021) "IT Identity Formation: A Technology-Values Fit Model," ***MIS Quarterly Author Workshop***.

RESEARCH-IN-PROGRESS

Sebastian Schultz, Qin Weng, Ryan Wright, Paul Benjamin Lowry. "The Perils and Promises of Enforcing and Relaxing Technical Security Controls". (1st round review with ***Information Systems Research***)

Qin Weng, Franck Soh. "How Does Project Initiators' Person-To-Person Followership Influence Their Popularity in Open Source Communities? The Role of Reach and Importance". (2nd round review with ***Journal of Strategic Information Systems***)

Viswanath Venkatesh, Qin Weng, Likoebe M. Maruping, Arun Rai. "Guidelines for the Development of Three-Level Models: Bridging Levels of Analysis and Integrating Contextual Influences in IS Research". (2nd round review with ***Journal for the Association of Information Systems***)

Gaurav Bansal, Sebastian Schuetz, Qin Weng, Jason Thatcher, Paul B. Lowry. "Heeding the Messenger, Not the Message: The Impact of Sender's Characteristics on Users' Responses to Security Messages". (1st round review with ***Journal of Management Information Systems***)

Jamie Windeler, Likoebe M. Maruping, Viswanath Venkatesh, Qin Weng. "Bridge the Gap or Mind the Gap? The Role of Leader Coaching and Communication Technologies in Configurationally Dispersed Teams". (1st round review with ***Information & Management***)

Qin Weng. "An Empirical Study on Network Connectivity and Team Outcomes in a Cyberinfrastructure Initiative". (Preparing for submission)

Qin Weng, Abhijith Anand. "The Effects of Interorganizational Systems Portfolio on Hospital Performance". (Preparing for submission)

Qin Weng, Laurie J. Kirsch, Greg Moody. "Investigating the Antecedents of Collaboration Tie Strength in Cyberinfrastructure Initiatives". (Preparing for submission)

Qin Weng, Danping Wang, Stephen De Lurgio, Sebastian Schuetz. "Shaping Agility through Value Proposition Innovation: Reconceptualizing the Role of Information Technology in Tabao E-Commerce Vendors". (80%)

Qin Weng, Wendy Wang, Amber Young. "Exploring IT Identity and Its Formation". (80%)

TEACHING EXPERIENCE

University of Arkansas, Information System Department
ISYS 5103: Data Analytics Fundamentals (Fall 2018 - 2021)

- Graduate core course
- Students from diverse majors: MS Accounting, MIS, Professional, Certificate, MBA, eMBA, Supply Chain, Economic Analytics
- Face to face, virtual, or blended delivery
- Excel, SQL, Erwin, Python
- SAP Lumira, Power BI, Tableau, SQL Server, IDLE, Jupiter Notebook

ISYS 4193: Data Analytics and Visualization (Fall 2018)

- Undergraduate core course
- Descriptive statistics, comparison statistics, correlation, linear regression, visualization
- SAS EG, Tableau

Chatham University, School of Business

CMP 283: Database Management Systems (Spring 2018)

- Online course
- Database concepts, ER diagram, Normalization, SQL
- MS Access

University of Pittsburgh, College of Business Administration

BUSBIS 1060: Introduction to Management Information Systems (Fall 2013, Fall 2014)

- Undergraduate core course
- Covers the fundamental MIS topics, including database, decision support, business intelligence, e-commerce, and crowdsourcing;
- Excel, Access, RapidMiner (data analytics), and Google sites

Virginia Commonwealth University, School of Business

INFO 258: Objected-Oriented Programming (Fall 1999, Spring 2000, Summer 2000)

- Undergraduate core course
- Covers objected-oriented programming with Visual Basic, and relevant techniques including VB form design, VB programming, ADO, and ActiveX

COURSE DEVELOPMENT

University of Arkansas

ISYS 4023: Network & Data Security in Changing World (2021)

- Undergraduate core
- Intermediate difficulty; technical + behavioral.
- Topics: network protocols, cryptography, data security and protection, ERP and Enterprise Systems, cloud computing security issues, IOT security issues, blockchain security issues.

PROFESSIONAL EXPERIENCE

Senior Business Analyst, TMG Health Inc. (2007 – 2010)

- *Industry: healthcare*
- Healthcare systems design and development
- SQL database design and SQL application development
- Business process reengineering

Business Analyst, Three Rivers Administrative Services (2004 – 2007)

- *Industry: healthcare*
- System setup and maintenance
- Database programming and reporting

Database/EDI Programmer, Three Rivers Health Plans (2001 – 2004)

- *Industry: healthcare*
- Interface programming (SQL, VB)
- EDI mapping and application development

EXTERNAL SERVICE

Mini-track Chair:

The Dark Side of Social Media, in Social Computing Track, AMCIS 2018 ~ 2021

Program Committee:

IEEE ISI 2020

Editorial Review Board:

Decision Science Journal 2020-2023

Ad Hoc Reviewer:

European Journal of Information Systems (since 2020)
Information & Management (since 2010)
Journal of Service Science and Management (since 2010)
International Conference on Information Systems
Americas Conference on Information Systems
European Conference on Information Systems
Hawaii International Conference on System Sciences

INTERNAL SERVICE

University of Arkansas

Strategic Planning Committee: 2018-2020

Research Committee: 2018-2019

PhD Committee: 2020

Advisor for PhD Summer Paper: Le Kuai 2020; Carolina Reis 2021

AWARDS AND HONORS

Junior Faculty Workshop, International Conference of Information Systems (40th), Munich (2019)

Junior Faculty Consortium, Americas Conference on Information Systems (25th), Cancun Mexico (2019)

Doctoral Consortium, Americas Conference on Information Systems (20th), Savannah GA (2014)

George G. Main Fellowship, Joseph M. Katz Graduate School of Business, University of Pittsburgh (2011 – 2014)

Graduate Scholarship, Virginia Commonwealth University, School of Business (1998 – 2000)

Honored Graduate Student for Academic Achievement, Virginia Commonwealth University, School of Business (1998 – 2000)

AFFILIATIONS

Member, Association of Information Systems (2010 – present)

Member, BΓΣ Association (1999 – present)

President, Chinese Students and Scholars Association at Virginia Commonwealth University (2000)

TECHNICAL SKILLS

Programming: R, Python, Java, Perl, Visual Basic

Data Analytics: RapidMiner, Tableau, SAS EG, SAP Lumira, Power BI

Database: SQL server, Oracle, Access

NoSQL: MongoDB

Social Network Analysis: UCINET, Cytoscape

Statistical Analysis: Stata, R, Python, SPSS, SAS, HLM, EQS, SmartPLS

Web Design: HTML, FrontPage

LANGUAGES

English; Chinese Mandarin

REFERENCES

Available upon request

CURRICULUM VITA
Ronna Coldiron Turner, Ph.D.

University of Arkansas
College of Education & Health Professions
Educational Statistics and Research Methods
250 Graduate Education Building
Fayetteville, AR 72701
rcturner@uark.edu

Educational Background

- 1993 – 1998 **University of Illinois at Urbana-Champaign - Ph.D. (2000)**
Educational Psychology – Quantitative and Evaluative Research
Methodologies concentration.
Dissertation: *Evaluating a procedure for investigating the multidimensional parallelism of standardized tests.*
- 1989 - 1991 **Missouri State University, Springfield - M.S. in Ed. Social Sciences.**
Specialization in Psychological Testing, Statistics, & Research Methods.
- 1985 - 1989 **Missouri State University, Springfield - B.S. in Ed. Mathematics.**

Certification

- 1989-1993 **Mathematics Teacher (grades 6 - 12) - Missouri**
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Professional Experience

- 1996 - present **University of Arkansas – Professor** (2018-present), Associate Professor (2003-2018), Assistant Professor (1996-2003). Teaching quantitative research methods; applied statistics; measurement and test theory.
Program Coordinator -- Educational Statistics and Research Methods program (2005-2010, 2013-2015, 2017-2019).
Concentration Coordinator -- Statistics and Analytics interdisciplinary program; Educational Statistics and Psychometrics track (2014-present).
- 2015 - 2020 **Institute for Advanced Data Analytics**, University of Arkansas.
Affiliate Member.
- 2011 - present **University of Arkansas Psychometric and Educational Evaluation Research group - Director.** Specializing in studies on test development and their use; conducting evaluations for programs in K-12 and higher education.
- 2003 - 2011 **University of Arkansas Office of Research, Measurement, and Evaluation – Director** (2003-2011), Associate Director (1998-2003). Specializing in applied educational research, program evaluation, and theoretical studies in the field of measurement. Branch of the *National*
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- 1994 - 1996 **University of Illinois at Urbana-Champaign -- Research Assistant, Teaching Assistant, and Statistics Computer Lab Assistant.** Psychometric analyses for state level reading assessments. Building web-based computer examinations for medical college assessments at the University of Wisconsin. Lab instructor and statistical analysis support for graduate courses in beginning and intermediate statistics.
- 1995 **American College Testing (ACT) -- Summer Intern.** Intern for the Support, Technological Applications, & Research Department. Analysis of multidimensionality issues of the ACT Mathematics Test.
- 1991 - 1992 **Ash Grove High School, MO - Mathematics Teacher / Volleyball Coach.**
- 1989 - 1991 **Missouri State University - Research Assistant.** Grant administration, data collection and statistical analysis. Substitute instructor.
- 1989 - 1991 **Testing Department, Missouri State University.** Supervisor / proctor for the GRE, ACT, SAT, NTE, and CBASE.
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Publications

- Jozkowski, K., **Turner, R. C.**, Weese, J., Crawford, B.C., & Lo, W.J. (accepted). Abortion vs. sexual assault: People's perceptions of Kavanaugh's nomination to the Supreme Court of the United States. *Journal of Sex Research*.
- Crawford, B.C., Jozkowski, K., **Turner, R. C.**, & Lo, W.J. (2021). Examining the relationship between Roe v. Wade knowledge and sentiment across political party and abortion identity, *Sexuality Research and Social Policy*. <https://doi.org/10.1007/s13178-021-00597-4>
- Weese, J., **Turner, R.C.**, Ames, A., Crawford, B., & Liang, X. (online first, 2021). Reevaluating the SIBTEST classification heuristics for dichotomous DIF. *Educational and Psychological Measurement*, <https://doi.org/10.1177/00131644211017267>
- Crawford, B. L., Jozkowski, K. N., Simmons, M. K., Willis, M., LaRoche, K. L., **Turner, R. C.**, & Lo, W.-J. (online first, Sep. 24, 2021). Attitudes toward fetal development-based abortion bans in the United States. *Social Science Journal*, 0(0), 1–16. <https://doi.org/10.1080/03623319.2021.1975481>
- Maier, J. M., Jozkowski, K., Montenegro, M., Willis, M., **Turner, R. C.**, Crawford, B.C., & Lo, W.J. (in press). Examining auxiliary verbs in a salient belief elicitation. *Health Behavior and Policy Review*.
- Valdez, D., Montenegro, M. S., Crawford, B. L., **Turner, R. C.**, Lo, W.-J., & Jozkowski, K. N. (2021). Translation frameworks and questionnaire design approaches as a component of health research and practice: A discussion and taxonomy of popular translation frameworks and questionnaire design approaches. *Social Science and Medicine*, 278, 1-6. <https://doi.org/10.1016/j.socscimed.2021.113931>
- Maier, J. M., Jozkowski, K., Valdez, D., Crawford, B.C., **Turner, R. C.**, & Lo, W.J. (2021). Applicability of a Salient Belief Elicitation to measure abortion beliefs. *American Journal of Health Behavior*, 45(1), 81-94. <https://doi.org/10.5993/AJHB.45.1.7>

- Jozkowski, K., Crawford, B.C., **Turner, R. C.**, & Lo, W.J. (2020). Examining attitudes toward abortion: Do people's attitudes change when considering gestational age and fetal development? *Contraception*, 102(4), 282. <https://doi.org/10.1016/j.contraception.2020.07.036>
- Kissinger, D., Grover, K., & **Turner, R. C.** (2020). Pediatric stroke caregiver wellbeing: A holistic wellness perspective, *Rehabilitation Counseling Bulletin*, 63(4), 245-255. DOI: 10.1177/0034355219846653
- Jozkowski, K., Crawford, B.C., **Turner, R. C.**, & Lo, W.J. (2020). Knowledge and Sentiments of Roe v. Wade in the Wake of Justice Kavanaugh's Nomination to the U.S. Supreme Court, *Sexuality Research and Social Policy*, 17, 285-300.
- Cole, K. L., **Turner, R. C.**, & Gitchel, W. D. (2019). A study of polytomous IRT methods and item wording directionality effects on perceived stress items. *Personality and Individual Differences*, 147(1), 63-72.
- Turner, R. C.**, & Keiffer, E. A. (2019). Impact of unbalanced DIF item proportions on group-specific DIF identification. *Communications in Statistics – Theory and Methods*, 48(15), 3746-3760. <https://doi.org/10.1080/03610926.2018.1481968>
- Tucker, M. A., Caldwell, A. R., Butts, C. L., Robinson, F. B., Kavouras, S. A., McDermott, B. P., Washington, T. A., **Turner, R. C.**, & Ganio, M. S. (2018). Postsynaptic cutaneous vasodilation and sweating: Influence of adiposity and hydration status. *European Journal of Applied Physiology*, 118(8), 1703-1713. <https://doi.org/10.1007/s00421-018-3902-3>
- Matlock, K. L., **Turner, R. C.**, & Gitchel, W. D. (2018). A study of reverse-worded matched item pairs using the generalized partial credit and nominal response models. *Educational and Psychological Measurement*, 78(1), 103-127.
- Turner, R. C.**, Keiffer, E. A., & Salamo, G. J. (2018). Observing inquiry-based learning environments using the Scholastic Inquiry Observation instrument. *International Journal of Science and Mathematics Education*, 16(8), 1455-1478. <https://doi.org/10.1007/s10763-017-9843-1>
- Tucker, M., Caldwell, A., Butts, C., Robinson, F., Reynebeau, H., Kavouras, S., McDermott, B., Washington, T., **Turner, R.**, & Ganio, M. (2017). Effect of hypohydration on thermoregulatory responses in males with low and high body fat exercising in the heat. *Journal of Applied Physiology*, 122(1), 142-152.
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- Matlock, K. L., **Turner, R. C.**, & Khojasteh, J. (2016). Estimating a unidimensional latent ability across multiple test forms with confounding difficulty and length within sub-content areas. *International Journal of Quantitative Research in Education*, 3(3), 154-178.
- Yang, L., & **Turner, R. C.** (2016). Improving science communication through a university professional development and K-12 immersion program: An examination in advising and mentoring skills, *Humanities and Social Science Review*, 5(3), 371-378.
- Endacott, J. L., Collett, V. S., Goering, C., **Turner, R. C.**, Denny, G., Wright, G. P., Jennings-

- Davis, G. (2016). On the frontline of CCSS implementation: A national study of factors influencing teachers' perceptions of teaching conditions and job satisfaction. *Cogent Education*, 3: 1162997. DOI: 10.1080/2331186X.2016.1162997
- Glenn, J.M., Gray, M., Moyen, N.E., Kavouras, S.A., DiBrezzo R., **Turner, R.**, Baum, J., & Stone, M. (2016). Effects of 28 days beta-alanine supplementation on isokinetic exercise performance and body composition in female masters athletes. *Journal of Strength and Conditioning Research*, 30(1), 200-207.
- Matlock, K. L., & **Turner, R. C.** (2016). Unidimensional IRT item parameter estimates across equivalent test forms with confounding specifications within dimensions. *Educational and Psychological Measurement*, 76(2), 258-279.
- Grover, K.S., Walters, S., & **Turner, R. C.** (2016). Exploring faculty preference for mode of delivery for professional development initiatives. *Online Journal of Distance Learning Administration*, 19(1), retrieved from http://www.westga.edu/~distance/ojdla/spring191/grover_walters_turner191.html.
- Glenn, J.M., Gray, M., Stewart, R., Moyen, N.E., Kavouras, S.A., DiBrezzo R., **Turner, R.**, & Baum, J. (2015). Incremental effects of 28 days of beta-alanine supplementation on high-intensity cycling performance and blood lactate in masters female cyclists. *Amino Acids*, 47(12), 2593-2600.
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- Gitchel, W. D., **Turner, R. C.**, & Rumrill, P. (2010). Differential item functioning in rehabilitation research. *Work*, 36(3), 361-369.
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- Powers, M., Fort, I. L., DiBrezzo, R., Shadden, B., **Turner, R.**, Calleja, P., & Riggs, C. (2007). Body composition and fitness correlates of bone mineral content among elderly women. *Medicine and Science in Sports and Exercise*, 39, 691.
- Pack, T. G., Roessler, R. T., **Turner, R. C.**, & Robertson, J. (2007). Prediction of "Turn Over" Intentions among Employed Adults with Multiple Sclerosis. *Journal of Rehabilitation*, 73(3), 26-35.
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Turner, R. C., & Williams, T. (2002). Students at-risk for not meeting fourth grade Arkansas Benchmark proficiency standards. *Arkansas Educational Research Methods and Policy Studies Journal*, 2(1), 48-69.

Ackerman, T. A., Evans, J. A., Park, K. S., Tamassia, C., & **Turner, R. C.** (1999). Computer assessment using visual stimuli: A test of dermatological skin disorders. In F. Drasgow & J. B. Olson-Buchanan (Eds.), *Innovations in Computerized Assessment* (p. 137 – 150). Mahwah, NJ: Lawrence Erlbaum Associates.

Mulvenon, S. W., & **Turner, R. C.** (1998). Experimental design. *Journal of Rehabilitation Education*, 12(2), 91-96.

Published Proceedings

Cole, K., **Turner, R.**, & Kim, S. (2021). IRT analysis of dimensional structure and item wording effects. In: Wiberg, M., Molenaar, D., Gonzalez, J., Bockenholt, U., & Kim, J.-S. (Eds.) *Quantitative Psychology: 85th Annual Meeting of the Psychometric Society, Virtual, 2020*, p. 141-152. New York: Springer. DOI: 10.1007/978-3-030-74772-5.

Caldwell, A., Jansen, L., Rosa-Caldwell, M., **Turner, R. C.**, Howie, E. K., Gallagher, K., & Ganio, M. S. (2019, June 1). Independent and combined effects of arterial angulations and shear stress on vascular function. *Medicine and Science in Sports and Exercise*, 51(6), 993.

Vicker, K., Salamo, G., & **Turner, R.** (2002). Graduate student practice of technology management: The cohort approach to structuring graduate programs. *Proceedings of the American Society for Engineering Education Annual Conference & Exposition, Canada*, 1 – 19.

Turner, R. C., Mulvenon, S. W., Thomas, S., P., & Balkin, R. (2002). Indices of item-objective congruence for test validity assessments. *Proceedings of the Twenty-Seventh Annual SAS[®] Users Group International Conference*, Orlando, FL, 1 – 5.

Vickers, K., Salamo, G., & **Turner, R.** (2001). Graduate physics education – industrial style. *Proceedings of the American Society for Engineering Education Annual Conference & Exposition*, Albuquerque, NM, 1 – 20.

Mulvenon, S. W., **Turner, R. C.**, & Thomas, S. (2001). Techniques for detection of cheating on standardized tests using SAS[®]. *Proceedings of the Twenty-Sixth Annual SAS[®] Users Group International Conference*, Miami, FL, 1 – 6.

Mulvenon, S., **Turner, R.**, Ganley, B., Thorn, A., & Fritts-Scott, K. (2000). SAS[®] procedures for use in public school accountability programs. *Proceedings of the Twenty-Fifth Annual SAS[®] Users Group International Conference*, 1134-1138.

Mulvenon, S., & **Turner, R.** (1999). Using SAS[®] software to conduct pilot studies: An instructor's guide. *Proceedings of the 24th annual SAS[®] User Group International Conference Proceeding Guide*, 1561-1566.

Presentations

- Ezike, N., **Turner, R. C.**, Lo, W.-J., Crawford, B., & Jozkowski, K. N. (2021, July). *Comparing estimation procedures for omega reliability with non-normal ordinal data*. Poster presented at the International Meeting of the Psychometric Society, Virtual Meeting.
- Turner, R. C.**, Jozkowski, K., Solon, M., Crawford, B., Lo, W.-J., (2021, May). *All for one or one for all: Are respondents answering different questions than we think we are asking?* Presented at the American Association of Public Opinion Research, Virtual conference.
- Turner, R. C.**, Jozkowski, K., Crawford, B., Lo, W.-J., (2021, May). *Is it legal and should it be moral? A multi-dimensional assessment of abortion attitudes in the U.S.* Presented at the American Association of Public Opinion Research, Virtual conference.
- Asamoah, N., **Turner, R. C.**, Lo, W., Crawford, B., Jozkowski, K., & McClelland, S. (2021, April). *Demographic Interactions of Differential Item Functioning in Attitudinal Scales*. Presented at the annual meeting of the American Educational Research Association, Virtual Meeting.
- Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2020, October). *Examining attitudes toward abortion: Do people's attitudes change when considering gestational age and fetal development?* Presentation at the Society for Family Planning annual conference (SFP international conference transitioned to virtual during 2020 coronavirus pandemic).
- Montenegro, M., Marcantonio, T., Valdez, D., Kaplan, A., Crawford, B., **Turner, R. C.**, Lo, W.-J., & Jozkowski, K. (October 26, 2020). *Examining Latinx and non-Latinx support and opposition toward abortion laws in the U.S.*, Presentation at the American Public Health Association annual conference, Atlanta, GA. (APHA national conference transitioned to virtual during 2020 coronavirus pandemic).
- Turner, R. C.**, Lo, W.J., Reimers, J., Crawford, B.L., Jozkowski, K.N., & Weese, J. (2020, June 1 – September 1). *Impacts of Item Formatting on Self-Reported Support for Abortion Legality*. Poster presented at the Association of Psychological Science Virtual Poster Showcase (APS international conference transitioned to virtual during 2020 coronavirus pandemic).
- Reimers, J., **Turner, R. C.**, Jozkowski, K.N., Lo, W.J., Crawford, B.L., & Weese, J. (2020, June 1 – September 1). *Comparing Neutral Response Options and Location in Item Formatting for Social Surveys*. Poster presented at the Association of Psychological Science Virtual Poster Showcase (APS international conference transitioned to virtual during 2020 coronavirus pandemic).
- Cole, K.L., **Turner, R.C.**, & Kim, S. (2020, July). *IRT analysis of dimensional structure of item wording effects*. Poster presented at the International Meeting of the Psychometric Society (IMPS international conference transitioned to virtual during 2020 coronavirus pandemic).
- Crawford, B.L., Jozkowski, K.N., **Turner, R.C.**, & Lo, W.J. (2020, May). *Investigating Demographic Differences in Selecting "Don't Know" Across Different Abortion Scenarios and Time Points in the Pregnancy*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Montenegro, M., Valdez, D., Kaplan, A., Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2020, May). *Latinx Attitudes toward Abortion: Descriptive Findings of Abortion*

- Attitudes among the Latinx Community*. Presentation at for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Montenegro, M., Valdez, D., Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2020, May). *Religious Affiliation and Abortion Attitudes among Latinos/as in the U.S.* Presentation at the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Simmons, M., Montenegro, M., Klein, T., Diaz, D., Crawford, B.L., Lo, W.J., **Turner, R.C.**, & Jozkowski, K.N., (2020, May). *Complexity in Abortion Attitudes: The Case for More Nuanced Measures of Abortion-related Political Identity*. Presentation for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Simmons, M., Crawford, B.L., Klein, T., Lo, W.J., **Turner, R.C.**, & Jozkowski, K.N. (2020, May). *Abortion-related Political Participation and the Supreme Court Nomination of Justice Kavanaugh*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Crawford, B.L., Jozkowski, K.N., **Turner, R.C.**, & Lo, W.J. (2020, May). *Assessing Differences in Responses to the General Social Survey Abortion Questions When Including the Gestational Age of the Pregnancy*. Panel presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA. This panel includes the following four presentations.
- Turner, R.C.**, Crawford, B.L., Jozkowski, K.N., & Lo, W.J. (2020, May). *Relationship between Endorsement of GSS Abortion Circumstance Items and Gestational Length Recommendations*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Lo, W-J., **Turner, R.C.**, Crawford, B.L., Jozkowski, K.N., & Weese, J. (2020, May). *Change We Can, or Change We Can't: Sequence Effects for Abortion Item Sets that Incorporate Gestational Timing*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Weese, J., Lo, W-J., Crawford, B.L., Jozkowski, K.N., & **Turner, R.C.** (2020, May). *How Does Inclusion of Gestational Length and Order Effects Impact Factor Structure of Medical and Social Abortion Item Sets?* Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2020, May). *Integrating Abortion Circumstances with Gestational Lengths and Developmental Markers: How Do Gestational Time Periods Inform Abortion Attitudes?* Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, Lo, W.J., & Traugott, M. (2020, May). *Developing New Measures to Assess Abortion Attitudes in the United States*. Panel presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA. This panel includes the following four presentations.
- Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2020, May). *An Interdisciplinary, Multi-dimensional Approach to Developing New Abortion Attitudes Measures in the United States: A Project Overview*. Presentation accepted for the American Association for Public

Opinion Research annual conference, Atlanta, GA.

Crawford, B.L., Jozkowski, K.N., **Turner, R.C.**, & Lo, W.J. (2020, May). *Using Formative, Qualitative Data in the Development of New Measures to Assess Abortion Attitudes*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Lo, W-J., Crawford, B.L., Jozkowski, K.N., & **Turner, R.C.** (2020, May). *Using Ad Hoc Data Collections to Inform the Formative Phase of a Multi-Year Project to Develop New Abortion Attitude Measures*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Turner, R.C., Crawford, B.L., Jozkowski, K.N., & Lo, W.J. (2020, May). *All for One or One for All: Are Respondents Answering Different Questions than We Think We are Asking?* Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Kaplan, A., Crawford, B.L., **Turner, R.C.**, Montenegro, M., Valdez, D., Lo, W.J., & Jozkowski, K.N. (2020, May). *The influence of data collection methods on differing response patterns: Acculturation as a mediator to knowledge and attitudes towards Roe v. Wade*. Presentation at the American Association for Public Opinion Research annual conference, Atlanta, GA.

Maier, J., Montenegro, M., Kaplan, A., Willis, M., Valdez, D., Jozkowski, K.N., Crawford, B.L., Lo, W.J., & **Turner, R.C.** (2020, May). *Would v. Should: Examining Word Selection in Assessing Abortion Attitudes*. Presentation at the American Association for Public Opinion Research annual conference, Atlanta, GA.

Turner, R. C., Reimers, J., Lo, W., Jozkowski, K., & Crawford, B. (2020, April). *Comparison of Data Quality Indicator Effectiveness with Unidirectional vs. Bidirectional Scales in Survey Research*. Presentation accepted for the annual meeting of the American Educational Research Association, San Francisco, CA.

Reimers, J., **Turner, R. C.**, Lo, W., Jozkowski, K., & Crawford, B. (2020, April). *Demographic Comparisons for Various Types of Low Cognitive Effort Survey Responses*. Presentation accepted for the annual meeting of the American Educational Research Association, San Francisco, CA.

Weese, J., & **Turner, R. C.** (2019, July). *Designing an effect size to standardize polytomous item DIF*. Poster presented at the International Meeting of the Psychometric Society, Santiago, Chile.

Jozkowski, K.N., Willis, M., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2019, November). *Does empathy toward women who seek abortion predict attitudes toward access to abortion?* Presentation at the American Public Health Association, Philadelphia, PA.

Bustamante, J., Valdez, D., Crawford, B., **Turner, R.C.**, Lo, W.J., & Jozkowski, K.N. (2019, November). *Ethnographic challenges in the study of abortion: Establishing access in a Spanish speaking/Latinx southern community*. Poster presentation at the American Public Health Association, Philadelphia, PA.

Simmons, M., Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2019, November). *If it's legal, it's easy: (Mis)perceptions of abortion access across the U.S.* Presentation at

the American Public Health Association, Philadelphia, PA.

- Crawford, B.L., Reimers, J., Willis, M. **Turner, R.C.**, Lo, W.J., & Jozkowski, K.N. (2019, November). *“Roe v. Wade” versus “legalized abortion”: Wording effect influences on survey responses*. Presentation at the American Public Health Association, Philadelphia, PA.
- Valdez, D., Kaplan, A., Diaz, D., Maier, J., Jozkowski, K., Crawford, B., Lo, W.-J., & **Turner, R.** (2019, November). *Using the Reasoned Action Approach to assess Latinx abortion perception and attitudes in the United States*. Presentation at the American Public Health Association, Philadelphia, PA.
- Maier, J., Jozkowski, K. N., Simmons, M., **Turner, R.C.**, Lo, W.J., & Crawford, B.L. (2019, November). *Belief about abortion permissibility in the context of mental health*. Presentation at the American Public Health Association, Philadelphia, PA.
- Valdez, D., Willis, M., Jozkowski, K., Crawford, B., **Turner, R.**, & Lo, W.-J. (2019, November). *Objectivity of enacted abortion legislation in the United States: Using latent sentiment analysis to algorithmically identify neutrality in written language*. Poster presentation at the American Public Health Association, Philadelphia, PA.
- Crawford, B. L., Jozkowski, K. N., **Turner, R. C.**, & Lo, W.-J. (2019, August). *Knowledge and sentiment regarding Roe v. Wade before and after the confirmation of Justice Kavanaugh*, Paper presented at the annual conference of the Society for the Study of Social Problems, New York, NY.
- Caldwell, A., Jansen, L., Rosa-Caldwell, M., **Turner, R. C.**, Howie, E. K., Gallagher, K., & Ganio, M. S. (2019, May). *Independent and combined effects of arterial angulations and shear stress on vascular function*. Poster presented at the annual conference of the American College of Sports Medicine, Orlando, FL.
- Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2019, May). Knowledge and sentiments of Roe v. Wade in the wake of Brett Kavanaugh’s nomination to the Supreme Court of the United States. Presentation at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Crawford, B.L., Jozkowski, K.N., **Turner, R.C.**, & Lo, W.J. (2019, May). Roe v. Wade should go, but women shouldn’t lose their constitutional right to have an abortion: The effects of word choice when assessing abortion attitudes. Presentation at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Valdez, D., **Turner, R. C.**, Crawford, B.L., Jozkowski, K.N., & Kaplan, A. (2019, May). Roe v. Wade and Brett Kavanaugh: Differences in attitudes among English and Spanish speakers in a national, bilingual survey. Presentation at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Valdez, D., **Turner, R. C.**, Crawford, B.L., & Jozkowski, K.N. (2019, May). Comparisons of abortion attitude survey item response patterns among an English and Spanish sample of U.S. adults: Methodological applications for non-normal data. Presentation at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Maier, J., Simmons, M., Crawford, B.L., Jozkowski, K.N., **Turner, R.C.**, & Lo, W.J. (2019, May). Abortion-related identity and sentiment among LGB individuals. Presentation at the American Association for Public Opinion Research annual conference, Toronto, CA.

- Turner, R.C.**, Reimers, J., Jozkowski, K.N., Lo, W.J., & Crawford, B.L. (2019, May). Investigating differential response patterns for sample subgroups: Using DIF analyses to select scaling vs. polling items. Presentation at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Simmons, M., Maier, J., Jozkowski, K.N., Crawford, B.L., **Turner, R.C.**, & Lo, W.J. (2019, May). Examining differences in “pro-life” and “pro-choice” definitions among adults in the U.S.: How critical conceptual analysis can improve abortion-related polling. Presentation at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Lippman, J., Pasek, J., **Turner, R.C.**, & Lo, W.J. (2019, May). Extracting common information across diverse measures: Identifying the latent attitudes underlying abortion responses. Presentation at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Crawford, B.L., Jozkowski, K.N., **Turner, R.C.**, & Lo, W.J. (2019, May). Attitudes regarding Roe v. Wade before and after the confirmation of Justice Kavanaugh. Poster presented at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Lo, W.J., **Turner, R.C.**, Crawford, B.L., & Jozkowski, K.N. (2019, May). To slide or not to slide, that is the psychometric question. Poster presented at the American Association for Public Opinion Research annual conference, Toronto, CA.
- Morrison, B., Tanaka, A., **Turner, R. C.**, & Lo, W. J. (2018, May). *Investigating measurement invariance and other psychometric measures of the mindset instrument*. Poster presented at the annual conference of the Association of Psychological Science, San Francisco, CA.
- Turner, R. C.**, Cole, K. L., & Gitchel, W. D. (2018, April). *Investigating Wording versus Construct Effects for a Modified Perceived Stress Scale*, Paper to be presented at the annual conference of the American Educational Research Association, New York, NY.
- Turner, R. C.**, Gitchel, W. D., & Cole, K. L. (2018, April). *Responses to Item Wording on Stress and Anxiety Scales for Adults with Disabilities*, Paper to be presented at the annual conference of the American Educational Research Association, New York, NY.
- Reimers, J., Weese, J., & **Turner, R.** (2018, April). *Differential Item Functioning Based on Gender and Item Directionality on the TIMSS Mathematics Confidence Scale*, Paper to be presented at the annual conference of the American Educational Research Association, New York, NY.
- Matlock, K. L., **Turner, R. C.**, & Gitchel, W. D. (2017, April). *Investigating the effects of extreme response styles using the Nominal Response Model*. Paper presented at the annual conference of the American Educational Research Association, San Antonio, TX.
- Kissinger, D., Grover, K., & **Turner, R.** (2017, March). *A wellness approach for caregivers of children who experienced pediatric stroke*. Paper presented at the annual conference of the American Counseling Association, Washington, D.C.
- Turner, R. C.**, Gitchel, W. D., & Matlock, K. L. (2016, August). *Interactions of gender and age with positive and negative item wording on the Perceived Stress Scale*. Paper presented at the annual conference of the American Psychological Association, Denver, CO.
- Gitchel, W. D. & **Turner, R. C.** (2016, August). *Examining the effects of item directionality on*

three psychological self-report scales. Paper presented at the annual conference of the American Psychological Association, Denver, CO.

Turner, R. C., Matlock, K. L., & Gitchel, W. D. (2016, July). *Age differences on positively and negatively worded anxiety items*. Paper presented at the biannual conference of the International Testing Commission, Vancouver, BC.

Turner, R. C., & Gitchel, W. D. (2016, July). *Positively and negatively worded depression item impacts related to gender and age*. Paper presented at the biannual conference of the International Testing Commission, Vancouver, BC.

Matlock, K. L., **Turner, R. C.,** & Gitchel, W. D. (2016, April). *Investigating reverse-worded matched item pairs using the GPCM and the NRM*. Paper presented at the National Council of Measurement in Education, Washington, D.C.

Morrison, B., Lo, W.J., **Turner, R.,** Yang, L., & Su, S.H. (2016, April). *Exploring model fit for the PISA Perceived Control scale*. Paper presented at the American Educational Research Association annual conference.

Matlock, K. L., **Turner, R. C.,** & Gitchel, W. D. (2016, April). *Effects of positively and negatively worded items on estimated latent trait scores*. Paper presented at the annual conference of the American Educational Research Association. (This paper won the ***Distinguished Paper Competition*** award at the RMERA conference and received an automatic invitation to the national AERA conference.)

Su, S.H., **Turner, R.,** Yang, L., Lo, W.J., & Robinson, B., (2016, April). *Testing Measurement Invariance of the PISA "Attributions to Failure" Scale across Gender in the U.S.* Poster presented at the American Educational Research Association Student Gala Poster Presentation at the AERA annual conference, Chicago, IL.

Yousuf Zai, S., & **Turner, R. C.** (2016, April). *Investigating the factor structure of the Teachers' Sense of Efficacy (TSES) with a Pakistani teacher population*. Poster presented at the American Educational Research Association Student Gala Poster Presentation at the annual conference, Chicago, IL.

Yang, L., **Turner, R.,** Lo, W.J., & Su, S.H. (2016, March). *Improving science communication through a university professional development and K-12 immersion program*. Paper presented at the International Journal of Arts and Sciences conference for Social Sciences and Humanities, Las Vegas, NV.

Matlock, K., & **Turner, R.** (2015, October). *Investigating estimated theta values using the GPCM and NRM polytomous response models for scales with reverse worded items*. Paper presented at the Rocky Mountain Educational Research Association Convention, Claremore, OK. ***Paper selected as the Distinguished Paper Competition winner.***

Matlock, K., & **Turner, R.** (2015, August). *Inconsistencies in item parameter estimates across seemingly parallel forms*. Poster and paper to be presented at the American Psychological Association Convention, Toronto, Canada.

Matlock, K., & **Turner, R.** (2015, August). *A comparison of latent ability estimates across multiple test forms with confounding difficulty and discrimination within dimensions*. Poster and paper to be presented at the American Psychological Association Convention, Toronto, Canada.

- Murphy, C., Muessig, K., & **Turner, R.** (2014, November). *Relationships between online faculty and student perceptions of technology usefulness and actual technology use*. Paper presented at the annual conference of the Association for Educational Communications and Technology, Jacksonville, FL.
- Turner, R. C.**, Lo, W. J., Keiffer, E., & Matlock, K. (2014, April). *When DIF purification fails: A study of small scales*. Paper presented at the annual conference of the National Council on Measurement in Education, Philadelphia, PA.
- Matlock, K. L., & **Turner, R. C.** (2014, April). *Consequences of estimating unidimensional item parameters across multidimensional test forms*. Paper presented at the annual conference of the National Council on Measurement in Education, Philadelphia, PA.
- Turner, R. C.**, & Lo, W. J. (2013, July). *Accuracy of DIF identification with small item sets when purification is used in unbalanced contamination conditions*. Paper presented at the annual conference of the American Psychological Association, Honolulu, HI.
- Turner, R. C.**, Lo, W. J., & Keiffer, E. (2013, April). *Impact of using a two-step DIF purification process to classify group-specific biased items under unbalanced DIF item proportion conditions*. Paper presented at the annual conference of the National Council on Measurement in Education, San Francisco, CA.
- Matlock, K. L., & **Turner, R. C.** (2013, April). *The effects of confounding ability and difficulty within sub-content areas on the unidimensional estimation of thetas for multiple test forms*. Paper presented at the annual conference of the American Educational Research Association, San Francisco, CA.
- Turner, R. C.**, & Keiffer, E. (2013, April). *Impact of unbalanced DIF item proportions on group-specific DIF identification*. Paper presented at the annual conference of the American Educational Research Association, San Francisco, CA.
- Turner, R. C.**, Hawley, J., Ware, M. E., Calleja, P., Edgeworth, T., Freeman, R., & Hebert, M. (2012, March). *The University of Arkansas GK12 KIDS Program Evaluation Model and Resources*. Poster presentation at the annual project directors' meeting of the National Science Foundation, Washington, D.C. (*not refereed*)
- Turner, R. C.**, Gitche, W. D., & Keiffer, E. (2011, April). *Comparing type I error and power rates in DIF analyses when combining significance tests with effect size criteria*. Paper presented at the annual conference of the National Council on Measurement in Education, New Orleans, LA.
- Turner, R. C.**, Keiffer, E., & Gitche, W. D. (2011, April). *Group differences on attitudinal scales when an item subset of an operational definition exhibits DIF/DBF*. Paper presented at the annual conference of the American Educational Research Association, New Orleans, LA.
- Schenk, C., Roddy, M., Sleezer, R., **Turner, R.**, Ware, M., & Salamo, G. (2011, April). *Inquiry-based learning in materials science at the micro/nano scale in Arkansas Middle Schools*. Paper presented at the spring conference of the Materials Research Society, San Francisco, CA.
- Keiffer, E., & **Turner, R. C.**, (2011, April). *Differentiating between math performance concerns and types of math anxiety-related sources*. Paper and poster presented at the

- annual conference of the American Educational Research Association, New Orleans, LA.
- Ware, M. E., **Turner, R. C.**, Calleja, P., Keiffer, E., Hawley, J., Tidwell, W., Durr, T., Dake, T., Hobson, A., & Salamo, G. (2011, March). *Incorporating innovative university technologies into the K-12 classroom*. Poster presentation at the annual project directors' meeting of the National Science Foundation, Washington, D.C. (not refereed)
- Keiffer, E., **Turner, R.**, Carter, M., & Gitchel, W. D. (2010, May). *Is it really mathematics anxiety? Classification of college student perceptions*. Paper presented at annual conference of the American Educational Research Association, Denver, CO.
- Turner, R. C.**, Keiffer, E., & Gitchel, W. D. (2010, May). *Observing inquiry-based learning environments: The Scholastic Inquiry Observation (SIO) instrument*. Paper presented at the annual conference of the American Educational Research Association, Denver, CO.
- Ware, M. E., **Turner, R. C.**, Calleja, P., Winsett, K., Geels, M., Covington, A., Brown, K., Hobson, A., & Salamo, G. (2010, March). *Inquiry teaching strategies in mathematics*. One-hour presentation at the annual project directors' meeting of the National Science Foundation, Washington, D.C.
- Ware, M. E., **Turner, R. C.**, Calleja, P., Winsett, K., Geels, M., Covington, A., Brown, K., Hobson, A., & Salamo, G. (2010, March). *Incorporating STEM research into K-12 math and science instruction*. Poster presentation at the annual project directors' meeting of the National Science Foundation, Washington, D.C. (not refereed)
- Sutcliffe, R., **Turner, R. C.**, & Dunn, K. E. (2010, May). *Predicting online course performance using type of discussion board postings and online course hits*. Paper presented at annual conference of the American Educational Research Association, Denver, CO.
- Keiffer, E., **Turner, R. C.**, & Gitchel, W. D. (2010, May). *Is it really mathematics anxiety? Classification of college student perceptions*. Paper presented at annual conference of the American Educational Research Association, Denver, CO.
- Gitchel, W. D., **Turner, R. C.**, & Keiffer, E. (2010, May). *Gender differential item functioning on depression items with respect to self-esteem*. Paper presented at the annual conference of the American Educational Research Association, Denver, CO.
- Keiffer, E., & **Turner, R.** (2009). *Developing brilliant professors you can understand*. Paper presented at the OK-AR Mathematical Association of America section meeting, Weatherford, OK.
- Ware, M., **Turner, R.**, Calleja, P., Smith, K., Harrison, M., Cobb, L., Woten, D., Hobson, A., & Salamo, G. (2009, March). *Science, math, and English: Best taught together or separate?* One-hour presentation at the annual meeting for the National Science Foundation GK-12 Project Directors' Meeting, Washington, D.C.
- Ware, M. E., **Turner, R. C.**, Calleja, P., Smith, K., Harrison, M., Cobb, L., Woten, D., Hobson, A., & Salamo, G. (2009, March). *The University of Arkansas GK12 program: KIDS, K-12 I do science: Summer training for fellows and teachers*. Poster presentation at the annual project directors' meeting of the National Science Foundation, Washington, D.C. (not refereed)
- Keiffer, E., & **Turner, R.** (2009). *Developing brilliant professors you can understand*. Paper

presented at the OK-AR Mathematical Association of America Section Meeting, Weatherford, Oklahoma. (not refereed)

- Airola, D. T., Mulvenon, S. W., Stegman, C. E., & **Turner, R. C.** (March 27, 2008). *The College Readiness Index: Translating a complex measure into a practical metric*. Paper presentation at the annual meeting for the American Educational Research Association, New York, NY.
- Ware, M. E., **Turner, R. C.**, Calleja, P., Salamo, G., Sherwood, R., Stubbs, M., Marty, N., & Krueger, E. (2008, March 1). *Incorporating technology into math and science learning*. Poster presentation at the annual project directors' meeting of the National Science Foundation, Washington, D.C. *(not refereed)*
- Turner, R. C.**, Killian, J., Salamo, G., Calleja, P., & Ware, M. (April 12, 2007). *Impact of inquiry training and scientist / K-12 teacher partnerships on classroom practices and teacher attitudes*. Paper presentation at the annual meeting for the American Educational Research Association, Chicago, IL.
- Vardiman, J.P., Riggs, C., DiBrezzo, R., Fort, I., Shadden, B., **Turner, R.**, Touchberry, C., Gallagher, P.M. (March 17, 2007). *Acute and chronic effects of high-intensity short-duration sport training on salivary Immunoglobulin-A in female collegiate athletes*. Poster/paper presentation at the Mid-America Athletic Trainers Association Annual Meeting, Topeka, Kansas.
- Salamo, G., Ware, M., Calleja, P., & **Turner, R. C.** (2007, March 8). *University of Arkansas K-12, I Do Science: 'KIDS' Integrating Math and Science*. Poster presented at the National Science Foundation annual GK12 Project Director's Meeting, Washington, D.C. *(not refereed)*
- Salamo, G., Calleja, P., & **Turner, R. C.** (2006, March 17). *University of Arkansas KIDS Program: A New Direction*. Poster presented at the National Science Foundation annual GK12 Project Director's Meeting, Washington, D.C. *(not refereed)*
- Turner, R. C.**, Ritter, G. W., Robertson, A. H., & Featherston, L. (April 8, 2006). *Does the impact of preschool child care on cognition and behavior persist through the elementary years?* Paper presentation at the annual meeting for the American Educational Research Association, San Francisco, CA.
- Scott, A. J., Mulvenon, S. W., & **Turner, R. C.** (April 10, 2006). *How well do socio-emotional assessments of kindergarteners predict their third grade mathematics, reading, and science IRT scores?* Paper presentation at the annual meeting for the American Educational Research Association, San Francisco, CA.
- Turner, R. C.**, & Twitty, L. L. (April, 2005). *Partnering measurement professionals with scientists and K-12 educators: Evaluating the KIDS project*. Paper presentation at the annual meeting for the American Educational Research Association, Montreal, Canada.
- Stegman, C., Holaway-Johnson, C., Mulvenon, S., McKenzie, S., **Turner, R.**, & Morton, K. (April, 2005). *Data sets for use in statistic, measurement, and design courses*. Paper presentation at the annual meeting for the American Educational Research Association, Montreal, Canada.
- Vickers, K., Salamo, G., Foster, R., & **Turner, R. C.** (2005, March 23). *Graduate physics*

education – Adding industrial culture and methods to a traditional graduate physics program. Presentation at the annual meeting of the American Physical Society, Los Angeles, CA.

Salamo, G., Calleja, P., & **Turner, R. C.** (2005, March 5). *The University of Arkansas GK12 KIDS Program: Changing graduate training to include a responsibility for K-12 science and math education.* Presentation at the National Science Foundation annual GK12 Project Meeting, Washington, D.C. (*presentation without paper; 1 of 6 selected for presentation at plenary sessions*)

Salamo, G., Calleja, P., & **Turner, R. C.** (2005, October 22). *Changing Career Choices in the state of Arkansas.* Presentation at the Southern regional GK12 Project Director's Meeting, College Station, TX. (*not refereed*)

Salamo, G., Calleja, P., & **Turner, R. C.** (2005, March 5). *University of Arkansas KIDS Program: Changing Graduate Training to Include a Responsibility for K-12 Science and Math Education.* Presentation at the National Science Foundation annual GK12 Project Director's Plenary Meeting, Washington, D.C.

Turner, R. C. (2005, April 25). *The GK-12 KIDS Project: A partnership between K-12 public schools and graduate education.* Presentation to Fayetteville partner school district regarding KIDS progress in years 1 to 3. (*not refereed*)

Turner, R. C. (2005, March 18). *The GK-12 KIDS Project: A partnership between K-12 public schools and graduate education.* Presentation to Springdale partner school district regarding KIDS progress in years 1 to 3. (*not refereed*)

Salamo, G., Calleja, P., & **Turner, R. C.** (2005, March 4). *University of Arkansas K-12, I Do Science.* Poster presentation at the National Science Foundation annual GK12 Project Meeting, Washington, D.C. (*not refereed*)

Turner, R. C., Mulvenon, S. W., & Adams, D. J. (November, 2004). *Evaluating the University of Arkansas' Microelectronics-photonics program.* Panel presentation at the annual meeting for the American Evaluation Association, Atlanta, GA.

Ritter, G. W., Lucas, C. J., **Turner, R. C.**, Williams, T. L., & Hudson, V. L. (October, 2004). *Keeping score: What do we know about the impact of statewide school accountability programs on student achievement?* Paper presentation at the annual meeting for the Association for Public Policy Analysis and Management, Atlanta, GA.

Hulett, L. D., Williams, T. L., Twitty, L. L., **Turner, R. C.**, Salamo, G., & Hobson, A. (April, 2004). *Inquiry-based classrooms and middle school students' attitudes about science and mathematics.* Presented as a roundtable presentation at the annual meeting for the American Educational Research Association, San Diego, CA.

Williams, T. L., **Turner, R. C.**, Vickers, K., & Salamo, G. (April, 2004). *Personality and learning style differences in graduate science programs incorporating business skills training.* Presented as a roundtable presentation at the annual meeting for the American Educational Research Association, San Diego, CA.

Turner, R. C., & Ritter, G. (April, 2004). *Does the impact of preschool childcare on cognition and behavior persist throughout the elementary years?* Presented at the annual meeting for the American Educational Research Association, San Diego, CA.

- Salamo, G., Calleja, P., & **Turner, R. C.** (2004, March 5). *University of Arkansas GK-12, KIDS Program: Teaching the Science in Everyday Life*. Poster presentation at the National Science Foundation annual GK12 Project Meeting, Washington, D.C. (not refereed)
- Turner, R. C.**, Salamo, G., & Vickers, K. (December, 2003). *Student Psychosocial and Creativity Characteristics in a Physics Program Using a Cohort Methodology*. Poster presented at the annual Project Directors' Meeting for the U.S. Department of Education Fund for the Improvement of Post-Secondary Education, Denver, CO.
- Balkin, R. S., & **Turner, R. C.** (September, 2003). *Utilizing the Goal Attainment Scale of stabilization for adolescents in psychiatric hospitalization*. Presented at the annual meeting for the Association in Assessment for Counseling and Education, Timonium, MD.
- Williams, T. L., & **Turner, R. C.** (April, 2003). *Predicting performance on state standards using reading comprehension and mathematics problem solving*. Poster presented with paper at the annual American Educational Research Association conference, Chicago, IL.
- Ritter, G. W., & **Turner, R. C.** (April, 2003). *The impact of day care on school readiness: Using new data to examine the controversy*. Presented at the biennial meeting for the Society for Research in Child Development, Tampa, FL.
- Turner, R. C.**, & Williams, T. L. (April, 2003). *Classroom educator tool for predicting proficiency on Arkansas fourth grade curriculum standards*. Presented at the annual American Educational Research Association conference, Chicago, IL.
- Ackerman, T. A., & **Turner, R. C.** (April, 2003). *Estimation and application of a generalized MIRT model: Assessing the degree of compensation between two latent abilities*. Presented at the National Council for Measurement in Education conference, Chicago, IL.
- Lindsay, H. & **Turner, R.** (2003, March). *Gender Differences in Attitude-related Variables among Students with Similar Organic Chemistry Achievement*. Paper presented at the 224th annual meeting of the American Chemical Society, New Orleans, LA. (CHED 1170)
- Vickers, K., Salamo, G., & **Turner, R.** (2002, June). *Graduate student practice of technology management: The cohort approach to structuring graduate programs*. Paper presented at the American Society for Engineering Education Annual Conference & Exposition, Montreal, Quebec Canada.
- Turner, R. C.**, Mulvenon, S. W., Thomas, S., P., & Balkin, R. (2002, April). *Indices of item-objective congruence for test validity assessments*. Paper presented at the annual conference of SAS[®] Users Group International, Orlando, FL.
- Mulvenon, S. W., **Turner, R. C.**, & Thorn, A. R. (2002, March). *Statewide Systemic Initiatives: Modeling best practices for data collection and dissemination*. Invited presentation at the 2002 Invitational Systemic Initiative Workshop sponsored by the National Science Foundation, Orlando, FL.
- Vickers, K., Salamo, G., & **Turner, R.** (2001, November). *Industrial workgroup emulation: A method to enhance graduate student success*. Poster presented at the annual U.S. Department of Education FIPSE and LAAP Project Directors' Meeting, San Diego, CA.
- Vickers, K., Salamo, G., & **Turner, R.** (2001, June). *Graduate physics education – Industrial style*. Paper presentation at the American Society for Engineering Education Annual

Conference & Exposition, Albuquerque, NM.

- Ackerman, T. A., **Turner, R. C.**, & Mulvenon, S. W. (2001, April). *Testing and measurement issues in statistical methodology: The impact of instrument development*. Paper presented at the annual international conference of the American Educational Research Association, Seattle, WA.
- Mulvenon, S. W., **Turner, R. C.**, & Thomas, S. (2001, April). *Techniques for detection of cheating on standardized tests using SAS®*. Paper presented at the annual conference of the SAS® Users Group International, FL.
- Thorn, A. R., Mulvenon, S. W., **Turner, R. C.**, & Bacall (2001, March). *Pawsitive approach: An inspirational strategy for rehabilitation counseling*. Paper presented at the annual meeting of the American Counseling Association.
- Turner, R. C.**, & Mulvenon, S. W. (2000, October). *Creation of a statewide educational database and the utilization of the Educational Data Distribution System for assessment, diagnostic, and research purposes*. Invited presentation at the annual meeting of the North Central Regional Education Laboratory conference, Chicago, IL.
- Adams, D. J., Mulvenon, S. W., & **Turner, R. C.** (2000, April). *Embedded choice: Ego-centric networks and lottery participation*. Paper presented at the International Sunbelt Social Network Conference, Vancouver, B.C.
- Turner, R.**, & Mulvenon, S. (2000, April). *Teaching to two objectives? Using criterion-referenced and norm-referenced achievement exams mandated in a state accountability program*. Manuscript presented at the annual conference of the American Educational Research Association, New Orleans, LA.
- Thorn, A., Mulvenon, S., & **Turner, R.** (2000, April). *Factors associated with social involvement among adults: Results from a national survey*. Manuscript presented at the American Educational Research Association Conference, New Orleans, LA.
- Fritts-Scott, K., Carlson, L., Mulvenon, S., Krawchuk, C., Barta, K., & **Turner, R.** (2000, April). *Impact of hypermedia instruction and learning styles on student learning in an undergraduate nursing program*. Manuscript presented at the annual conference of the American Educational Research Association, New Orleans, LA.
- Mulvenon, S., **Turner, R.**, Ganley, B., Thorn, A., & Fritts-Scott, K. (2000, April). *SAS® procedures for use in public school accountability programs*. Manuscript presented for presentation at the Twenty-Fifth Annual SAS® User Group International Conference and Proceeding Guide, Indianapolis, IN.
- Mulvenon, S. W., & **Turner, R. C.** (2000, April). *An alternative methodological approach to assess "growth" in educational assessments and program evaluations*. Manuscript presented at the Annual Conference of the American Educational Research Association, New Orleans, LA.
- Turner, R.**, Mulvenon, S., & Ganley, B. (2000, April). *A review of state mandated exams for elementary and secondary students in Arkansas: Criterion-referenced exams versus norm-referenced exams*. Manuscript presented at the biannual conference of the Arkansas Association of Colleges for Teacher Education, Little Rock, AR.

- Mulvenon, S., **Turner, R.**, & Ganley, B. (2000, April). *The Arkansas Comprehensive Testing, Assessment, and Accountability Program (ACTAAP): Application of Dr. Linn's recommendations for developing accountability programs*. Manuscript presented at the biannual conference of the Arkansas Association of Colleges for Teacher Education, Little Rock, AR.
- Turner, R.**, Mulvenon, S., & Ganley, B. (1999, December). *Future directions in assessment of student academic performance and the development of interventions for academically distressed schools*. Manuscript presented at the Association for the Advancement of Educational Research, National Conference, Ponte Vedra, FL.
- Mulvenon, S., & **Turner, R.** (1999, December). *Is accountability possible in education? Measurement and statistical issues in evaluation of educational programs*. Manuscript presented at the Association for the Advancement of Educational Research, National Conference, Ponte Vedra, FL.
- Fritts, K., Mulvenon, S. & **Turner, R.** (1999, December). *Historical overview of rural education: Problems and promise*. Manuscript presented at the Association for the Advancement of Educational Research Conference, Ponte Vedra, FL.
- Thorn, A., Carlson, L., Mulvenon, S., & **Turner, R.** (1999, December). *Socio-cultural factors affecting the implementation of academic programs designed to assist rural school districts*. Manuscript presented at the Association for the Advancement of Educational Research Conference, Ponte Vedra, FL.
- Welch, B., Mulvenon, S., **Turner, R.** & Ganley, B. (1999, December). *Preliminary findings: The effects of the systemic initiatives on mathematics achievement in rural Arkansas school districts*. Presented at the annual meeting of the Association for the Advancement of Education Research, Ponte Vedra, FL.
- Thornton, D., Mulvenon, S., & **Turner, R.** (1999, December). *The impact of Early Learning Literacy Acquisition (ELLA) on reading achievement for academically distressed schools*. Manuscript presented at the annual meeting of the Association for the Advancement of Educational Research, Ponte Vedra, FL.
- Thomas, S., Mulvenon, S., & **Turner, R.** (1999, December). *Non-academic indicators: The direct and indirect effects on student achievement in rural academically distressed schools*. Manuscript presented at the annual meeting of the Association for the Advancement of Educational Research, Ponte Vedra, FL.
- Mulvenon, S., & **Turner, R.** (1999, April). *Using SAS® to conduct pilot studies: An instructor's guide*. Manuscript presented at 24th Annual SAS® User Group International Conference, Miami, FL.
- Petty, R., Mulvenon, & **Turner, R.** (1999, April). *Evaluation of "changes" in performance and identification of trends in student achievement in Arkansas*. Round table presentation at the annual conference of the American Educational Research Association, Montreal, Canada.
- Fritts, K., **Turner, R. C.**, & Mulvenon, S. (1999, April). *Relationship between performance on an Arkansas Comprehensive Testing, Assessment and Accountability Program (ACTAAP) Benchmark exam and the Stanford Achievement Test*. Round table presentation at the American Educational Research Association Conference, Montreal, Canada.

- Turner, R.,** Fritts, K., & Mulvenon, S. (1998, December). *Repeated measures design using reading recognition data*. Manuscript presented at the annual conference of the Association for the Advancement of Educational Research, Ponte Vedra, FL.
- Thorn, A., **Turner, R.,** & Mulvenon, S. (1998, April). *Use of national databases for investigating trends in reading performance of students in Arkansas*. Manuscript presented at the annual conference of the American Educational Research Association, San Diego, CA.
- Turner, R. L.,** Miller, T. R., Reckase, M. D., Davey, T. C., Thompson, T. D., & Ackerman, T. A. (1996, April). *Assessing the dimensionality of the interaction between items on a mathematics test of the American College Testing (ACT) exam and subgroups of an ACT examinee population*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.
- Crosby, D., **Turner, R. L.,** Evans, J. A., Ackerman, T. A., & Simpson, D. (1996, April). *A WEB-Based approach to computer-based testing*. Computer demonstration and poster presented at the annual meeting of the Council of Graduate Education Services, Chicago, IL. (*not refereed*)
- Turner, R. L.,** Mulvenon, S. W., & Behrens, J. T. (1995, April). *Use of instructor-student integrated concept maps to facilitate understanding of statistical theory in introductory statistics courses*. Paper presented at the annual meeting of the National Consortium for Instruction and Cognition, San Francisco, CA.
- Bolt, D. M., Ackerman, T. A., & **Turner, R. L.** (1995, April). *The relationship between multidimensional item cluster characteristics and dimensionality detection using DIMTEST*. Paper presentation at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.

Grant Funding

- Turner, R.,** & Keiffer, E., **PI** (August, 2020 – July, 2021; \$54,058). University of Arkansas Chancellor's Innovation and Collaboration Fund. *Investigating Web-based Data Collections for Business, Psychometric and Statistical Purposes: Interdisciplinary Collaborations for Designing and Analyzing Online Data*.
- Turner, R.,** & Lo, W-J., **PI** (March, 2020 – February, 2023; \$743,394). University of Indiana. *Developing and Assessing Measures for Social Surveys: 2020-2023 Subcontract*.
- Turner, R.,** & Lo, W-J., **PI** (August, 2019 – February, 2020; \$255,721). University of Indiana. *Developing and Assessing Measures for Social Surveys: 2019-2020 Subcontract*.
- Chaovalitwongse, W. A., **PI**; Wu, X., Hill, B., Pohl, E., & **Turner, R. C., Co-PI** (2019 – 2024; \$1,000,000). National Science Foundation. *Multidisciplinary Data Science Education to Prepare STEM Students for Data Science Careers* (Award NSF #1930532).
- Paul, D., **PI**, Stenken, J., **Co-PI**; **Turner, R., Evaluator** (2018-2020). National Science Foundation *REU Site: Encouraging Students in Science* (Award #CHE-1263119). (Evaluator funding \$5,250). *Transferred to Allison Ames, Evaluator, May 2019*.
- Jozkowski, K., **PI**, **Turner, R.,** Lo, W-J., & Crawford, B., **Co-PI** (2018 – 2021; \$6,063,295; years 1-3 of 6-year project). Private Foundation. *Developing and Assessing Measures for*

Social Surveys. This grant was discontinued in August 2019 as the PI moved to University of Indiana where the grant was re-organized as a multi-institute project lead by IU.

Sides, C., PI, Beitle, R., Leftwich, M., **Turner, R., Co-PI** (2017 – 2020; \$499,344). National Science Foundation *NRT-IGE #1735204: STEM Professional Awareness, Advancement, and Development (PAAD)*.

Cambria, J., PI, **Turner, R., Co-PI** (2016-2017; \$4,000). RHRC PROMISE Grant Program (UofA internal). *Science is not a boys' game, it's not a girls' game. It's everyone's game: Plugging the leaky pipeline of STEM choice.*

Cambria, J., PI, Pierson, H., Gashler, M., **Turner, R., Co-PI** (2016-2017; \$1,500). UofA Provost Grant Program. *Listening to their voices: Children tell us what works about robotic competitions and their motivation for STEM.*

Dougan, K., Rhames, V., PI, **Turner, R., Evaluator** (2015 – 2018; \$300,000). Arkansas Department of Higher Education: Math and Science Project. *Teaching Elementary Science with Integrated Curriculum (TESIC)*. [Funded and combined with another UofA MSP project; My colleague on the other proposal conducted the combined evaluation.]

Paul, D., PI., Stenken, J., Co-PI **Turner, R., Evaluator** (2014-2016; \$270,000). National Science Foundation *REU Site: Encouraging Students in Science* (Award #CHE-1263119). (Evaluator funding \$4,500).

Kennefick, J., PI., **Turner, R., Evaluator** (2012-2015; \$357,585). National Science Foundation Research Experience for Undergraduates: *Space and Planetary Sciences* (Award #1157002). (Evaluator funding \$10,800).

Paul, D., PI., **Turner, R., Evaluator** (2010-2012; \$357,585). National Science Foundation Research Experience for Undergraduates: *Chemistry and Biochemistry*. (Evaluator funding \$3,000).

Hobson, A., PI, Salamo, G., Stewart, G., **Turner, R., Calleja, P. Co-PI**. (2010; \$222,190). National Science Foundation GK12: *Track 2 – Teaching the Science in Everyday Life Supplemental Award* (Supplement to NSF Award #0538645).

Hobson, A., PI, Salamo, G., Stewart, G., **Turner, R., Calleja, P. Co-PI**. (2006-2014; \$1,859,930). National Science Foundation GK12: *Track 2 - GK12 Inquiry and Innovative Thinking by Design* (Award #0538645).

Bobbit, D., PI, Salamo, G., Paul, D., Henry, R., Koeppe, R. **Turner, R., Evaluator** (2006-2010; \$1,501,315). Howard Hughes Medical Institute: *Science and Technology Undergraduates Developing Interdisciplinary Opportunities at the Nanoscale (STUDIO-N)*. (Evaluator funding \$103,000).

Paul, D., PI., **Turner, R., Evaluator** (2006-2009; ~\$308,767). National Science Foundation Research Experience for Undergraduates: Chemistry and Biochemistry. *Arkansas REU Site Project: Preparing Competitive Scientists*. (Evaluator funding \$3,000).

Cochran, A. PI, Feldman, W., Mackey, W., **Turner, R., Carter, T.C., Foster, R., Co-PI**. (2004; \$55,000 submitted with a negotiated reduction). University of Arkansas: *Computer Assisted Calculus Instruction (CACI) Project*. Funded, but negotiated costs to remove evaluation component.

Hehr, L., PI., **Turner, R., Evaluator** (2004-2005; \$108,299). Arkansas Department of Higher Education: *Science and Math Achievement Using Real-World Technology (SMART)*. (Evaluator funding \$2,000).

Hobson, A., PI, Salamo, G., Stewart, G., **Turner, R.**, Hehr, L., Airola, D. **Co-PI.** (2002-2006; \$1,499,995). National Science Foundation GK12: *Inquiry and Innovative Thinking by Design* (Award #0139570).

Turner, R. (2001; \$1000). National Science Foundation: Training Grant at the Evaluator's Institute, San Francisco, CA

Salamo, G., PI, Vickers, K., **Turner, R. Co-PI.** (2000-2004; \$246,895 plus \$171,657 matching). U.S. Department of Education: *An Enriched Graduate Physics Education Methodology*. (Award P116B000981).

Mulvenon, S., PI, **Turner, R., Co-PI.** (2000-2002; \$211,081). National Science Foundation REC: *Assessing the Impact of Systemic Initiatives Programs: Modeling Best Practices for Data Collection, Analysis, and Dissemination of Results from Educational Research* (Award #9988050).

Turner, R. (2000; ~\$2500). National Center for Educational Statistics: Training Grant in the Use of the National Assessment of Educational Progress (NAEP) Data, Washington, D.C.

Shaper, L., PI., Salamo, G., Vickers, K., Co-PI, **Turner, R., Evaluator** (1999-2004; \$2,100,000). National Science Foundation DGE: *A New Era in Electronics Education* (Award # 9972820). (Evaluator funding \$137,000).

Mulvenon, S., PI, **Turner, R., Co-PI.** (1999-2002; \$58,869). Bentonville Public School District: *Bentonville Longitudinal Data Analysis Grant*.

Mulvenon, S., PI, **Turner, R., Co-PI.** (1999-2002; \$49,050). Rogers Public School District: *Rogers Longitudinal Data Analysis Grant*.

Mulvenon, S., PI, **Turner, R., Co-PI.** (1999-2002; \$59,479). Fayetteville Public School District: *Fayetteville Longitudinal Data Analysis Grant*.

Mulvenon, S., PI, **Turner, R., Co-PI.** (1999-2000; \$5,000). Walton Foundation: *Walton Family Delta Project*.

Mulvenon, S., PI, **Turner, R., Co-PI.** (1999; \$13,750). Rogers Public School District: *Rogers Spring Data Analysis Grant*.

Mulvenon, S., PI, **Turner, R., Co-PI.** (1998-2002; \$496,000). Arkansas Department of Education: *Development of an Educational Database*.

Mulvenon, S., PI, **Turner, R., Co-PI.** (1998-1999; \$18,330). Bentonville Public School District: *An Analysis of the Empowerment for Excellence Program*.

Mulvenon, S., PI, **Turner, R., Co-PI.** (1998-1999; \$4,681). Arkansas Department of Education: *Evaluation of Arkansas Statewide Systemic Initiative Professional Development Activities*.

Mulvenon, S., PI, **Turner, R., Co-PI.** (1998; \$1,500). University of Arkansas COEHP Internal Grant: *Development of a SAT-8 and SAT-9 Database to Assist Public Schools in Measurement and Evaluation*.

- Mulvenon, S., PI, **Turner, R., Co-PI.** (1998; \$750). Charles and Nadine Baum Teaching Grant (University of Arkansas): *Use of instructor-student integrated graphic organizers to facilitate understanding of statistical theory in graduate statistics courses.*
- Mulvenon, S., PI, **Turner, R., Co-PI.** (1998; \$650). University of Arkansas COEHP Internal Grant: *Assessment of Standardized Assessment Usage in Arkansas Public Schools.*
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Technical Reports

- Turner, R. C.,** Sides, C., Beitle, R., & Leftwich, M. (2019, July 4). *Professional Awareness and Academic Development (PAAD NRT-IGE STEM program) Midyear Report 2019.* First year evaluation report completed for National Science Foundation, p. 1 – 20.
- Turner, R. C.,** Sides, C., Beitle, R., & Leftwich, M. (2018, July 10). *Professional Awareness and Academic Development (PAAD NRT-IGE STEM program) Midyear Report 2018.* Formative evaluation report completed for National Science Foundation, p. 1 – 26.
- Turner, R. C.** (2018, July 6). *The University of Arkansas Chemistry and Biochemistry Research Experience for Undergraduates (REU) and IDeA Network of Biomedical Research Excellence (INBRE) Summer Programs: Mid-Summer Feedback Report 2018.* Formative evaluation report completed for University of Arkansas Principal Investigators, p. 1 – 16.
- Turner, R. C.** (2017, July). *The University of Arkansas Chemistry and Biochemistry Research Experience for Undergraduates (REU) and IDeA Network of Biomedical Research Excellence (INBRE) Summer Programs: Mid-Summer Feedback Report 2017.* Formative evaluation report completed for University of Arkansas Principal Investigators, p. 1 – 12.
- Turner, R. C.** (2016, November). *The University of Arkansas Research Experience for Undergraduates: Chemistry and Biochemistry, Annual Report 2016.* Annual report completed for University of Arkansas REU Chemistry Principal Investigators, p. 1 – 36.
- Turner, R. C.** (2016, July). *The University of Arkansas Chemistry and Biochemistry Research Experience for Undergraduates (REU) and IDeA Network of Biomedical Research Excellence (INBRE) Summer Programs: Mid-Summer Feedback Report 2015.* Formative evaluation report completed for University of Arkansas Principal Investigators, p. 1 – 13.
- Turner, R. C.** (2015, November). *The University of Arkansas Research Experience for Undergraduates: Chemistry and Biochemistry, Annual Report 2015.* Annual report completed for University of Arkansas REU Chemistry Principal Investigators, p. 1 – 36.
- Turner, R. C., & Murry, Jr., J. W.** (2015, October). *Teamwork Collaboration Inventory (TCI) Validation Study.* Unpublished technical report, University of Arkansas, Fayetteville, AR, p. 1 – 8.
- Turner, R. C.** (2015, January). *The University of Arkansas Research Experience for Undergraduates: Space and Planetary Sciences, Annual Report 2014.* Completed for University of Arkansas REU Space and Planetary Sciences Principal Investigators, p. 1 – 43.

- Turner, R. C.** (2014, October). *The University of Arkansas Research Experience for Undergraduates: Chemistry and Biochemistry, Annual Report 2014*. Annual report completed for University of Arkansas REU Chemistry Principal Investigators, p. 1 – 26.
- Turner, R. C., & Hawley, J.** (2014, February). *The University of Arkansas Research Experience for Undergraduates: Space and Planetary Sciences: Annual Report 2013*. Annual report completed for University of Arkansas REU SPACE Principal Investigators, p. 1 - 40.
- Ware, M., & **Turner, R. C.** (2013, July). *The University of Arkansas GK12 Program Annual Report (2013)*. Evaluation section of the UofA annual report completed for the National Science Foundation, p. 1 - 7.
- Turner, R. C., & Beck, D.** (2012, December 17). *COEHP Research Technology Subcommittee Final Report*. Report completed for the COEHP Technology Planning Committee, p. 1 - 30.
- Turner, R. C., Salamo, G., & Hawley, J.** (2012, November 26). *Science and Technology Undergraduates Developing Interdisciplinary Opportunities (STUDIO): The University of Arkansas Five-Year Report 2007-2012*. Final report completed for the University of Arkansas Howard Hughes Medical Institute STUDIO Program, p. 1 - 25.
- Turner, R. C., & Hawley, J.** (2012, September). *The University of Arkansas GK12 Program Annual Report (2012)*. Evaluation section of the UofA annual report completed for the National Science Foundation, p. 1 - 25.
- Turner, R. C.** (2012, November 9). *COEHP Technology Planning Committee 2012 Survey Report*. Statistical summary completed for the COEHP Technology Planning Committee 2012 Online Survey, p. 1 - 59.
- Hawley, J., & **Turner, R. C.** (2012, February - November). *GK12 Fellow Forum Survey Reports: The University of Arkansas GK12 Program*. Seven formative evaluation reports (February, March, April, May, September, October, November) completed for Fellows of the University of Arkansas GK12 Program, 4-5 pages each.
- Hawley, J., & **Turner, R. C.** (2012, February - November). *GK12 Teacher Forum Survey Reports: The University of Arkansas GK12 Program*. Seven formative evaluation reports (February, March, April, May, September, October, November) completed for Teachers of the University of Arkansas GK12 Program, 3 pages each.
- Hawley, J., & **Turner, R. C.** (2012, February). *Classroom Observational Data Measuring Inquiry Usage Results (Fall 2011): The University of Arkansas GK12 Program*. Semi-annual report completed for the Teachers of the University of Arkansas GK12 Program, p. 1 - 7.
- Hawley, J., & **Turner, R. C.** (2012, January). *GK12 Program Feedback Survey Results (Fall 2011): The University of Arkansas GK12 Program*. Semi-annual report completed for the Administrators, Teachers, and Fellows of the University of Arkansas GK12 Program, p. 1 - 4.
- Turner, R. C., & Hawley, J.** (2012, January). *The University of Arkansas STUDIO Program: Annual Report 2011*. Annual report completed for the Principal Investigators of the University of Arkansas Howard Hughes Medical Institute STUDIO Program, p. 1 - 82.
- Turner, R. C., & Hawley, J.** (2011, November 4). *The University of Arkansas Research*

Experience for Undergraduates: Chemistry / Biochemistry: Annual Report 2011. Annual report completed for University of Arkansas REU Chemistry/Biochemistry Principal Investigators, p. 1 - 34.

Zajicek, A., **Turner, R. C.**, Koski, P., & Hughes, C. (2010, December 9). *National Science Foundation ADVANCE Grant - University of Arkansas: Environmental Assessment Group Committee Report.* Technical report and presentation completed for the UofA ADVANCE Steering Committee, p. 1 - 79.

Turner, R. C., & Keiffer, E. (2010, October 20). *The University of Arkansas Research Experience for Undergraduates: Chemistry / Biochemistry: Annual Report 2010.* Annual report completed for submission to University of Arkansas REU Principal Investigators, p. 1 - 35.

Turner, R. C., Hawley, J., & Keiffer, E. (2010, December). *Undergraduate Research Studio: Studio Concept to Enable Students to Uncover the Rules of Nature at the Small Scale - Summative Four-Year Report.* Four year compendium being completed for University of Arkansas Howard Hughes Medical Institute grant principal investigators.

Turner, R. C., Keiffer, E., & Hawley, J. (2010, July). *The K12: I Do Science project: A partnership between the University of Arkansas and Fayetteville, Springdale, Rogers, and Bentonville public schools.* Summative 8-year report being completed for the University of Arkansas National Science Foundation GK-12 principal investigators.

Turner, R. C. & Gitchel, W. D. (2009, November). *Undergraduate Research Studio: Studio Concept to Enable Students to Uncover the Rules of Nature at the Small Scale - Year 3.* Annual report completed for submission to the Howard Hughes Medical Institute.

Turner, R. C. & Gitchel, W. D. (2009, October 15). *The University of Arkansas Research Experience for Undergraduates in Chemistry/Biochemistry: Annual Evaluation Report 2009.* Annual report completed for submission to the University of Arkansas REU Principal Investigators, p. 1 - 26.

Turner, R. C., Keiffer, E., & Gitchel, W.D. (2009, June). *The K12: I Do Science project: A partnership between the University of Arkansas and Fayetteville, Springdale, Rogers, and Bentonville public schools.* Annual report completed for submission to the National Science Foundation.

Research Support and Sponsored Programs Advisory Board. (2009, March 4). *University of Arkansas Research Support and Sponsored Programs Advisory Board Report: Faculty Perceptions of Research Activity Support Systems at the University of Arkansas - 2008.* Internal report completed for submission to the Vice Provost of Research and Graduate Studies at the University of Arkansas (*data collection, analysis, and technical report authors - Turner, R.C. & Keiffer, E.*), p. 1 - 231.

Turner, R. C. & Gitchel, W. D. (2008, December 1). *Undergraduate Research Studio: Studio Concept to Enable Students to Uncover the Rules of Nature at the Small Scale - Year 2.* Report completed for submission to the Howard Hughes Medical Institute, p. 1 - 57.

Turner, R. C. & Gitchel, W. D. (2008, December 15). *The University of Arkansas Research Experience for Undergraduates in Chemistry/Biochemistry: Summative Evaluation Report 2006-2008.* Report completed for submission to the University of Arkansas REU Principal

Investigators, p. 1 - 26.

- Turner, R. C. & Keiffer, E.** (2008, October 13). *University of Arkansas Research Support and Sponsored Programs Survey Summary for the External Reviewer Board*. Report completed for the Graduate Dean of Education for submission to the University of Arkansas' RSSP External Review Committee, p. 1 - 22.
- Turner, R. C. & Gitchel, W. D.** (2008, October 17). *The University of Arkansas Research Experience for Undergraduates in Chemistry/Biochemistry: NSF Evaluation Report - 2008*. Report completed for submission to the National Science Foundation, p. 1 - 26.
- Turner, R. C. & Gitchel, W. D.** (2007, November 1). *Undergraduate Research Studio: Studio Concept to Enable Students to Uncover the Rules of Nature at the Small Scale - Year 1*. Report completed for submission to the Howard Hughes Medical Institute, p. 1 - 22.
- Turner, R. C. & Keiffer, E.** (2007, November 9). *The University of Arkansas Research Experience for Undergraduates in Chemistry/Biochemistry: NSF Evaluation Report - 2007*. Report completed for the submission to the National Science Foundation, p. 1 - 27.
- Turner, R. C.** (2007, July 6). *The K12: I Do Science project: NSF Annual Report (Evaluator's Section)* Annual report completed for the National Science Foundation (17 pages for online report).
- Turner, R. C.** (2006, December 4). *The University of Arkansas Research Experience for Undergraduates in Chemistry/Biochemistry: NSF Evaluation Report*. Report completed for submission to the National Science Foundation, p. 1 - 26.
- Turner, R. C.** (2006, September 6). *The K12: I Do Science project: NSF Annual Report (Evaluator's Section)* Annual report completed for the National Science Foundation, p. 1 - 15.
- Turner, R. C.** (2005, September 14). *Evaluation of the University of Arkansas' SMART (Science and Math Achievement using Real-world Technology) Program*. Report completed for the University of Arkansas principal investigators, p. 1 - 51.
- Turner, R. C.** (2005, April 1). *The K12: I Do Science project: A partnership between the University of Arkansas and Fayetteville, Springdale, and Winslow public schools*. Annual report completed for the University of Arkansas GK-12 co-principal investigators, p. 1 - 51.
- Turner, R. C.** (2005, February 11). *Evaluating the University of Arkansas' Microelectronics-photonics program*. Completed for the University of Arkansas Microelectronics-photonics faculty, p. 1 - 97.
- Mulvenon, S., **Turner, R.**, & Stegman, C. (2002). *Measuring performance honors: Technical manual*. Completed for the Arkansas Department of Education, March, 2002, p. 1 - 35.
- Turner, R. C.** (2002). *Impact of the Teen Explosion Program on drug-related activities, psycho-sociological attitudes, and future plans*. Completed for the Teen Explosion Program of Northwest Arkansas, September, 2002, p. 1 - 20.
- Mulvenon, S., & **Turner, R.** (2002). *Assessing the impact of Systemic Initiatives Programs: Modeling best practices for data collection, analysis, and dissemination of results from educational research*. Completed for the National Science Foundation, May, 2002, p. 1 - 38 (with additional on-line supplements to the report).

- Mulvenon, S. W., **Turner, R. C.**, Thomas, S. P., Thorn, A. R., & Fritts-Scott, K. (2001). *The development and implementation of the Arkansas Department of Education's new Educational Data Delivery System*. Completed for the Arkansas Department of Education, p. 1 – 25.
- Mulvenon, S., & **Turner, R.** (2001). *Phases I, II and III cross-sectional and longitudinal data analysis (1997-2000)*. Completed for the Rogers School District, January, 2001, p. 1 – 39 (with over 100 pages of supporting documents).
- Mulvenon, S., & **Turner, R.** (2001). *Phases I, II and III cross-sectional and longitudinal data analysis (1998-2000)*. Completed for the Fayetteville School District, February, 2001 (web-based reporting; hundreds of pages of documentation and graphs).
- Mulvenon, S., & **Turner, R.** (2001). *Phases I, II and III cross-sectional and longitudinal data analysis (1997-2000)*. Completed for the Bentonville School District, January, 2001 (web-based reporting; hundreds of pages of documentation and graphs).
- Turner, R.** & Mulvenon, S. (2000). *Baseline report for the Microelectronics-Photonics National Science Foundation IGERT grant*. Completed for Principal Investigators of grant, November, 2000, p. 1 – 15.
- Mulvenon, S., & **Turner, R.** (2000). *Phases I, II and III cross-sectional and longitudinal data analysis*. Completed for the Rogers School District, March, 2000, p. 1 – 46 (with over 1,000 pages of supporting documentation).
- Mulvenon, S., & **Turner, R.** (2000). *Phases I, II and III cross-sectional and longitudinal data analysis*. Completed for the Fayetteville School District, May 23, 2000, p. 1 – 35 (executive summary; hundreds of pages of supporting documents, tables, and graphs for the individual schools).
- Mulvenon, S. W. & **Turner, R. C.** (1999). *Phases I, II and III cross-sectional and longitudinal data analysis*. Completed for the Bentonville School District, November 24, 1999.
- Mulvenon, S., & **Turner, R.** (1999). *Phase II and Phase III longitudinal assessment for Elaine School District*, pg. 1 - 60 (over 200 pages of supporting documentation were also provided). Completed for the Walton Family Foundation and the Elaine School District, October 16, 1999.
- Mulvenon, S., & **Turner, R.** (1999). *Phase II and Phase III longitudinal assessment for Marvel School District*, pg. 1 - 55 (over 200 pages of supporting documentation were also provided). Completed for the Walton Family Foundation and the Marvel School District, October 16, 1999.
- Mulvenon, S., & **Turner, R.** (1999). *Preliminary report of academic progress for Elaine School District*, pg. 1 - 14 (over 200 pages of supporting documentation were also provided). Completed for the Walton Family Foundation and the Elaine School District, June 29, 1999.
- Mulvenon, S., & **Turner, R.** (1999). *Preliminary report of academic progress for Marvel School District*, pg. 1 - 18 (over 250 pages of supporting documentation were also provided). Completed for the Walton Family Foundation and the Elaine School District, June 29, 1999.
- Mulvenon, S., & **Turner, R.** (1999). *Evaluation of Arkansas Statewide Systemic Initiatives faculty development programs*, pg. 1 - 12 (over 400 pages of supporting documentation were

- also provided). Completed for the Arkansas Department of Higher Education, June 1, 1999.
- Mulvenon, S. W. & **Turner, R. C.** (1999). *Evaluation of the Social Work Project Services at the Division of County Operations in Washington County, AR*, pg. 1 – 13. Completed for the Social Work Project of Washington County T.E.A. Program, March 1999.
- Turner, R. C.** (1999). *An Analysis of the SAT-9 Standardized Test Scores for Corning School District*, pg. 1 – 24. Completed for the Corning School District, January 5, 1999.
- Mulvenon, S., & **Turner, R.** (1998). *Analysis of the Empowerment for Excellence Program*, pg. 1 - 46 (over 2,000 pages of supporting documentation were also provided). Completed for the Bentonville School District, October 21, 1998.

Workshop Presentations & Training Sessions

- Turner, R. C.** (2013, January 7). *Mathematics Assessment Workshop*. Three-hour training for instructors and graduate assistants in the Department of Mathematical Sciences. Focusing on the development of tables of specifications to represent course goals, and the development of assessment tools and item writing based on their course blueprints.
- Ware, M., Calleja, P., Edgeworth, T., Freeman, R., Hebert, M., & **Turner, R. C.** (March 17, 2012). *The University of Arkansas GK12 KIDS Summer Workshop: A Dynamic Experience*. One-hour workshop conducted at the annual GK12 meeting of the National Science Foundation on training procedures for K-12 and university co-teaching partnerships.
- Beller, C., Stewart, G., Salamo, G., Ware, M., Calleja, P., **Turner, R.**, & Hobson, A. (2012, June 1 - 29). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.
- Beller, C., Stewart, G., Salamo, G., Ware, M., Calleja, P., **Turner, R.**, & Hobson, A. (2011, June 3 - July 1). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.
- Turner, R. C.** (2010, January 7). *Test Development Strategies*. Two one-hour training sessions on testing development and student assessment at the university-level for UofA faculty. Sessions were designed to cover item writing techniques and instrument development. Teaching and Faculty Support Center Training Series.
- Beller, C., Stewart, G., Salamo, G., Ware, M., Calleja, P., **Turner, R.**, & Hobson, A. (2010, June 4 - July 2). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and

inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.

Beller, C., Stewart, G., Salamo, G., Ware, M., Calleja, P., **Turner, R.**, & Hobson, A. (2009, June 1 - 26). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.

Beller, C., Stewart, G., Salamo, G., Ware, M., Calleja, P., **Turner, R.**, & Hobson, A. (2008, June 2 - 27). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.

Beller, C., Stewart, G., Salamo, G., Ware, M., Calleja, P., **Turner, R.**, & Hobson, A. (2007, June 1 - 29). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.

Beller, C., Stewart, G., Salamo, G., Ware, M., Calleja, P., **Turner, R.**, & Hobson, A. (2006, June 2 - 30). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.

Beller, C., Stewart, G., Salamo, G., Vickers, K., Hobson, A., & **Turner, R.** (2005, June 3 - July 1). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.

Beller, C., Stewart, G., Salamo, G., Vickers, K., Hobson, A., & **Turner, R.** (2004, June 4 - July 2). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.

- Beller, C., Stewart, G., Salamo, G., Vickers, K., Hobson, A., & **Turner, R.** (2003, June 2 - 27). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning, K-12 content standards, and inquiry-based lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.
- Turner, R. C.**, Stegman, C., Williams, T., & Perks, C. (August 8, 2002). *Data Assessment using the Arkansas Educational Data Distribution System*. Training workshop conducted at the Regional Technology in Education Conference. One-hour session conducted for Arkansas K-12 administrators and teachers for introducing the use of the latest components of the Arkansas Department of Education's Educational Data Distribution System developed by the Office of Research, Measurement, & Evaluation.
- Beller, C., Stewart, G., Salamo, G., Vickers, K., Hobson, A., Hehr, L., & **Turner, R.** (2002, June 3 - 28). *NSF GK12 KIDS Summer Training Workshop*. A one-month summer training for K-12 teachers and UofA science, engineering, technology, and math graduate students who are participating in the *KIDS* program during the following academic year. Three weeks are designated to training in the use of inquiry based learning and lesson development. In the fourth week, we conduct a math and science summer camp for middle school students.
- Turner, R. C.**, Stegman, C., Williams, T., & Perks, C. (August 9, 2002). *Data Assessment using the Arkansas Educational Data Distribution System*. Training workshop conducted at the Regional Technology in Education Conference. One-hour session conducted for Arkansas K-12 administrators and teachers for introducing the use of the latest components of the Arkansas Department of Education's Educational Data Distribution System developed by the Office of Research, Measurement, & Evaluation.
- Mulvenon, S. W., Perks, C., & **Turner, R. C.** (November 14, 2001). *ACTAAP Scoring, SAS's WebAF System, and Enterprise Guide*. Two-hour presentation for the Arkansas Department of Education personnel on the ACTAAP scoring rubrics and expansion of the EDDS system to the WebAF and Enterprise Guide formats.
- Turner, R. C.**, Stegman, C., Connors, J., Thorn, A., & Fritts-Scott, K. (February 23, 2001). *Springdale School District Data Training Workshop*. Four-hour training session for teachers and administrators on the use of the Arkansas Department of Education's Educational Data Distribution System.
- Turner, R.**, Thorn, A., & Stegman, C. (February 15, 2001). *Plumerville Administrators' Data Access Presentation*. A 45-minute presentation to administrators on the use of the Arkansas Department of Education's Educational Data Distribution System.
- Turner, R.**, Thorn, A., & Stegman, C. (February 15, 2001). *Plumerville Data Training Workshop*. A 2-hour presentation to teacher coordinators on the use of the Arkansas Department of Education's Educational Data Distribution System.
- Turner, R.**, Dyer, J., & Thorn, A. (January 26, 2001). *Fairfield Bay Data Assessment using the Arkansas Educational Data Distribution System*. One-hour presentation for educators on the use of the Arkansas Department of Education's Educational Data Distribution System. Invited by the Arkansas Leadership Academy.

- Mulvenon, S. W., & **Turner, R. C.** (May 10, 2000). *Evaluation of the Arkansas Department of Education Database Grant*. One-hour presentation on the capabilities and future directions of the K12 Arkansas achievement test database, presented to the Arkansas Department of Education in Little Rock, AR.
- Turner, R.**, Thorn, A., Carlson, L., & Fritts, K. (January 10, 2001). *Rogers School District Data Training Workshops*. A 1 ½ hour presentation to teachers and administrators on how to analyze standardized testing data and interpret output.
- Mulvenon, S. W., & **Turner, R. C.** (November 30, 2000). *Arkansas Educational Cooperatives Assessment Training*. A 2-3 hour measurement, statistics, and educational database training presentation conducted for selected Arkansas Educational Cooperatives trainers. Fort Smith, AR.
- Turner, R. C.** (October 20, 2000). *Northeast Educational Cooperative Unit Data Access and Assessment*. A 1-hour presentation to administrators and teacher coordinators on access to the ADE Educational Data Distribution System.
- Thorn, A. R., Cambiano, R., Mulvenon, S. W., & **Turner, R. C.** (April 13, 2000). *Marvell Educational Assessment Training Workshop*. A 3-hour workshop on how to use standardized testing information on specific students in their schools for educational data-driven decision-making. Marvell, AR.
- Thorn, A. R., Cambiano, R., Mulvenon, S. W., & **Turner, R. C.** (April 13, 2000). *Elaine Educational Assessment Training Workshop*. A 5 ½ -hour workshop on how to use standardized testing information on specific students in their schools for educational data-driven decision-making. Marvell, AR.
- Turner, R. C.** (October 14, 1999). *Walton Junior High Assessment Training*. In-service required for all high school teachers discussing use of standardized testing data for educational assessment.
- Mulvenon, S. W., & **Turner, R. C.** (August 18, 1999). *Bentonville Standardized Assessment Training*. In-service required for all teachers discussing use of standardized testing data for educational assessment.
- Turner, R. C.** (1999). *Rogers Workshop for Data Assessment Teams*. In-service for data assessment teams from each of the Rogers' schools for discussing use of standardized testing data for educational assessment.
- Mulvenon, S. W., & **Turner, R. C.** (1999). *Rogers Standardized Assessment Training*. In-service for all administrators discussing use of standardized testing data for educational assessment.
- Mulvenon, S. W., **Turner, R. C.**, & Denny, G. (April 18, 1997). *Statistics Awareness for Year 2000*. A ½ day seminar for graduate faculty in the College of Education & Health Professions on current topics and advancements in educational statistics.

Non-refereed Publications and Presentations

- Turner, R. C.**, & Hawley, J. (February, 2012). *The University of Arkansas GK-12 KIDS Bulletin*. Bulletin developed for advertising the *KIDS* program and providing a descriptive report to

current program partners and future participants, p. 1 - 4.

- Turner, R. C., & Keiffer, E.** (March, 2008). *KIDS program newsletter (2008)*. Newsletter developed for KIDS program partners including Bentonville, Fayetteville, Springdale, Rogers schools, University of Arkansas partners, and National Science Foundation reporting, p. 1 - 12.
- Turner, R. C.** (March 10, 2006). *KIDS program newsletter (2006)*. Newsletter developed for KIDS program partners including Fayetteville, Springdale, Rogers schools, University of Arkansas partners, and National Science Foundation reporting, p. 1 - 8.
- Turner, R. C.** (April 25, 2005). *KIDS program newsletter (2005)*. Newsletter developed for KIDS program partners including Fayetteville, Springdale, Winslow Schools, and University of Arkansas partners, p. 1 - 6.
- Salamo, G., Calleja, P., **Turner, R. C.** & Twitty, L. L. (2005, January 26). *Preliminary outcomes from the KIDS Project: Years 1-3*. One-hour presentation at the University of Arkansas Interdisciplinary Policy Studies' Research in Progress monthly seminar, Fayetteville, AR.
- Turner, R. C.** (December, 2004). Member Spotlight: Featuring Ronna Turner of the University of Arkansas and the "KIDS" program. *American Educational Research Association Special Interest Group: SIG Newsletter for Measurement Services*, p. 2 - 3.
- Turner, R. C.** (2004, September 13). *Value-added Models and Educational Accountability Systems*. Presented at the University of Arkansas National Office for Research, Measurement, and Evaluation Systems Accountability Systems conference, Fayetteville, AR.
- Turner, R. C.** (2003, January 29). *Program evaluation: Issues and practice. A partnership between University of Arkansas science and engineering graduate programs and K-12 middle schools*. Presented at the University of Arkansas Interdisciplinary Policy Studies' Research in Progress monthly seminar, Fayetteville, AR.
- Turner, R. C., Williams, T. L., & Calleja, P.** (2003, February 20). *Arkansas Department of Education Educational Data Distribution System: Access and use*. Presented at Phi Delta Kappan meeting, Fayetteville, AR.
- Mulvenon, S. W., & **Turner, R. C.** (August, 2002). *Assessing the impact of Systemic Initiatives programs: Modeling best practices for data collection, analysis, and dissemination of results from educational research*. Featured publication on the Systemic Initiative Study Forum website funded by the National Science Foundation. <http://www.sistudyforum.org>
- Mulvenon, S. W., **Turner, R. C.**, & Thorn, A. R. (March, 2002). Statewide Systemic Initiatives: Modeling best practices for data collection and dissemination. *Proceedings of the 2002 Invitational Systemic Initiative Workshop sponsored by the National Science Foundation*, Orlando, FL, 8.1 – 8.5.
- Hobson, A., Airola, D., Stewart, G., Faitak, S., **Turner, R.**, Hehr, L., Vickers, K., & Salamo, G. (October 15, 2001). *Teaching the science in everyday life*. Presentation made to the National Science Foundation at their request after receiving our GK12 grant proposal.
- Turner, R.**, Mulvenon, S., & Ganley, B. (April, 2000). *A review of state mandated exams for elementary and secondary students in Arkansas: Criterion-referenced exams versus norm-referenced exams*. Proceedings of the biannual conference of the Arkansas Association of

Colleges for Teacher Education, Little Rock, AR.

Mulvenon, S., **Turner, R.**, & Ganley, B. (April, 2000). *The Arkansas Comprehensive Testing, Assessment, and Accountability Program (ACTAAP): Application of Dr. Linn's recommendations for developing accountability programs*. Proceedings of the biannual conference of the Arkansas Association of Colleges for Teacher Education, Little Rock, AR.

Mulvenon, S. W., & **Turner, R. C.** (Spring, 2000). *Accountability programs: The role of the educational statistician*. American Educational Research Association Special Interest Group: Educational Statisticians Newsletter, p. 7 – 8.

Turner, R. C. (November, 1999). *"I am satisfied with my job": Measurement issues in doctoral degree programs*. American Educational Research Association Special Interest Group: Educational Statisticians Newsletter.

Awards

- 2019 **University of Arkansas Outstanding Faculty Nominee**. Sponsored by the Associated Student Government and the Student Alumni Board.
- 2019 **University of Arkansas Extraordinary Woman Nominee**. Sponsored by the Chancellor's Commission on Women in Leadership.
- 2016-17 **University of Arkansas Outstanding Faculty Award** (*3 faculty awarded from 10 finalists*). Sponsored by the Associated Student Government and the Student Alumni Board
- 2017 **University of Arkansas' College of Education and Health Professions' George Denny STAR Award** (*outstanding faculty award*)
- 2011 **University of Arkansas Outstanding Teacher Nominee**. Sponsored by the Associated Student Government and the Student Alumni Board.
- 2008 **National Science Foundation GK12 Media Award - University of Arkansas KIDS Program**
- 2007 **University of Arkansas' Department of Educational Leadership, Counseling, and Foundations Outstanding Teacher Award**.
- 2006 **University of Arkansas' College of Education and Health Professions Outstanding Teacher Award**.
- 2006 **University of Arkansas' Department of Educational Leadership, Counseling, and Foundations Outstanding Teacher Award**.
- 2001 **University of Arkansas Outstanding Teacher Nominee**. Sponsored by the Associated Student Government and the Student Alumni Board.
- 1996 **Maurice Tatsuoka Award**. Graduate student research award in the field of measurement and cognition; University of Illinois.
- 1995 **Barak Rosenshine Award for Research on Instruction in the Classroom**. *Use of Instructor-Student Integrated Concept Maps to Facilitate Understanding of Statistical Theory in Introductory Statistics Courses*. Paper written in conjunction with Sean W.

Professional Organizations

- 1993 – present National Council of Measurement in Education
- 1994 - present American Educational Research Association
- 1994 - present Division D: Measurement and Research Methodology
- 1996 - present Educational Statistician Special Interest Group
- 1998 - 2008 Measurement Services Special Interest Group
- 2018 - present Test Validity Special Interest Group
- 2018 – present American Association for Public Opinion Research
- 2019 – present American Public Health Association
- 2019 – present Society for Family Planning
- 2020 – present Psychometric Society
- 2015 – 2017 American Psychological Association
- 2015 – 2017 International Testing Commission
- 1998 - 2000 Association for the Advancement of Educational Research

Ad Hoc Reviewer

Journals

Journal of Educational Measurement

International Journal of Testing

Measurement and Evaluation in Counseling and Development

Journal for Research in Mathematics Education

Arkansas Journal of Educational Research and Policy Studies

Agencies / Groups

American Association of Public Opinion Research (conference submissions)

National Science Foundation (ad hoc proposal submissions)

NSF Measurement and Statistics Review Panel (2021-2023)

American Educational Research Association (conference submissions)

Research Frontiers Research Advisory Board Member (2002-2004)

Courses Taught

Doctoral Level:

ESRM 6403: Educational Statistics and Data Processing (*in-person and web-based formats*)
ESRM 6413: Experimental Design
ESRM 6513: Advanced Experimental Design
ESRM 6453: Multivariate Analysis
ESRM 6553: Advanced Multivariate Analysis
ESRM 6653: Measurement and Evaluation
ESRM 6753: Item Response Theory (formerly Advanced Measurement)
ESRM 6993: Seminar - Introduction to Simulation Studies
ESRM 6993: Seminar - Large-Scale Database Analysis
ESRM 668v: Practicum in Research
ESRM 605v: Independent Study (Logistic Regression)

Master's Level:

ESRM 5103: Introduction to Research Methods in Education (*in-person, web-based*)
ESRM 5393: Applied Statistics in Education

Dissertation (Thesis) Chair / Co-chair:

James Weese, Ph.D. (2020), research and analytics programmer, University of Arkansas.

“Development of an effect size to classify the magnitude of DIF in dichotomous and polytomous items”

Breanna Morrison, Ph.D. (2019 – *co-chair with Xinya Liang*), biostatistics analyst, University of Hawaii. “Comparing Elo, IRT, and Bayesian statistical models for educational and gaming data”

Samantha Robinson, Ph.D. (2017), clinical assistant professor, Mathematical Sciences, University of Arkansas. “Local item response theory for detection of spatially varying differential item functioning”

Sajid Yousuf Zai, Ph.D. (2016), assistant professor, Education, National University of Modern Languages, Islamabad. “Investigating the factor structure of the Teachers' Sense of Efficacy Scale with Pakistani in-service and pre-service teachers”

Ki L. Matlock, Ph.D. (2013), associate professor, Research, Evaluation, Measurement, and Statistics, Oklahoma State University. “The confounding effects of ability, item difficulty, and content balance within multiple dimensions on the estimation of unidimensional thetas”

Clay S. Johnson, Ph.D. (2013), institutional research analyst, University of Illinois at Chicago. “Compared to what? The effectiveness of synthetic control methods for causal inference in educational assessment”

Elizabeth A. Keiffer, Ph.D. (2011), associate director of graduate programs, Business Analytics, University of Arkansas. “Group-specific effects of matching subtest contamination on the identification of differential item functioning”

Sarah C. McKenzie, Ph.D. (2009), executive director, Office for Education Policy, University of Arkansas. “Differential bundle functioning utilizing theory-based matching subtests for investigating cognitive differences in mathematics”

Ashley Daniel, M.S. (2007), director of data and accountability, Rogers Public School system.
“Reading Recovery: An evaluation of one school district's academic outcomes”

Gerald White, Ph.D. (2003 – *co-chair with Roy Farley*), emergency manager, FEMA, Washington, D.C. “Problem solving, self-efficacy, community integration, and employment of blind adults”

Harriet Lindsay, Ph.D. (2001 – *co-chair with Jim Hammons*), professor, Chemistry, Eastern Michigan University. “Factors related to achievement in sophomore organic chemistry at the University of Arkansas”

Media Highlights

Sides, C., & Shumaker, C. (February 20, 2018). Program helps graduate students prepare for future careers. *University of Arkansas News*. <https://news.uark.edu/articles/41040/program-helps-graduate-students-prepare-for-future-careers>

Stambuck, H. (May 9, 2016). Pakistani doctoral student builds long list of research publications. *University of Arkansas News*. <http://news.uark.edu/articles/34574/pakistani-doctoral-student-builds-long-list-of-research-publications>

Stambuck, H. (March 11, 2016). Pakistani U of A doctoral student serves as cultural ambassador. *University of Arkansas News*. <http://news.uark.edu/articles/33912/pakistani-u-of-a-doctoral-student-serves-as-cultural-ambassador>

University of Arkansas Media Services (2008). A media presentation of the GK12 *KIDS* Program distributed by DVD and public broadcasting stations, *University of Arkansas*.

Jacquish, B. (2007, Fall). Capturing Joy: "K12, I Do Science": Learning Science by Doing What a Scientist Does, *Research Frontiers*, p. 14 - 19.

News-Medical.Net (April 15, 2007). *Hands-on and minds-on approach to school science*. <http://www.news-medical.net/?id=23558>

Newswise (April 12, 2007). *KIDS Helps Inquiring Minds Learn*, *University of Arkansas Newswise*. <http://www.newswise.com/articles/view/528883/>

Daily Headlines (2006). GK12 *KIDS* Program, *University of Arkansas Daily Headlines*.

Daily Headlines (October 15, 2004). Community Science Day, *University of Arkansas Daily Headlines*.

Edwards, T. (August, 2003). Teen Art Explosion - Arkansas, *CAPTivations: Success Stories in Prevention*.

University of Arkansas (July 1, 2003). Mixed Effects of Pre-School Day Care, *University of Arkansas Newswise*.

Daily Headlines (June, 2003). Study Suggests Mixed Effects of Pre-School Day Care, *University of Arkansas Daily Headlines*.

The Impact of Pre-Kindergarten Childcare on Cognition and Behavior, KNWA News.

SAS® Institute, Inc. (2001). Public Sector – University of Arkansas Real World Application. On-line SAS® Institute document: www.sas.com/solutions/public

- Blouin, M. (Fall, 2000). Measuring Performance in the Schools. *Research Frontiers*, University of Arkansas, p. 28 – 29.
- The Associated Press (December 16, 2000). Fayetteville \$246,895 Grant to Help University of Arkansas Physics Programs: Department Focus is on Graduate Students, *Arkansas Democrat Gazette*, p. B4.
- Wood, R. (December 14, 2000). University of Arkansas Receives Grant to Develop New Graduate Courses and Educational Approaches for Physics, *University of Arkansas News Releases*.
- Bell, B. (November 12, 2000). Database Simplifies Utilizing Test Scores, *Arkansas Democrat Gazette*, p. B1.
- The Associated Press (August 29, 2000). Professors Develop Database on Arkansas Students, *The Morning News*, p. A5.
- Mulvenon, S. W., Turner, R. C., & Blouin, M. (August 29, 2000). Database to Benefit School Teachers and Students, *University of Arkansas NewsWise*.
- Blouin, M. (August 2, 2000). University of Arkansas Researchers Win National Science Foundation Grant to Analyze Innovative Science Programs in Schools, *University of Arkansas News Releases*.
- Braswell, L. (February 21, 2000). Program's Next Tier Could Bring Bonuses to Individual Teachers, *The Morning News*, p. A3.
- Blouin, M. (September 16, 1999). New Master's Degree Prepares High-Tech Graduates for Industry, *University of Arkansas News Releases*.
- Hogge, A. (August 4, 1999). Grant Garners Graduate Students for High-Technology Training, *University of Arkansas News Releases*.
- Erpelding, T. (March 2, 1998). UA statisticians to tune up EFE program, *Bentonville Daily Record*.

WEN-JUO LO

EDUCATIONAL STATISTICS AND RESEARCH METHODS
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EDUCATION

- | | |
|------|---|
| 2008 | Ph.D., Arizona State University, Tempe, Arizona
Major: Educational Psychology - Measurement, Statistics, and
Methodological Studies |
| 2004 | M.A., Arizona State University, Tempe, Arizona
Major: Educational Psychology - Measurement, Statistics, and
Methodological Studies |
| 1993 | B.S., SooChow University, Taipei, Taiwan, Republic of China
Major: Psychology |

PROFESSIONAL EXPERIENCE

University of Arkansas, Fayetteville, Arkansas

- | | |
|----------------|---|
| 2014 – Present | Associate Professor of Educational Statistics and Research Methods (ESRM), Department of Rehabilitation, Human Resources and Communication Disorder, College of Education and Health Professions <ul style="list-style-type: none"> ❖ Teaching graduate-level courses in introductory and advanced statistics. ❖ Courses Taught (all doctoral-level) <ul style="list-style-type: none"> ○ ESRM6403 – Educational Statistics and Data Processing ○ ESRM6413 – Experimental Design in Education ○ ESRM6423 – Multiple Regression Techniques for Education ○ ESRM6513 – Hierarchical linear modeling ○ ESRM6523 – Structural Equation Modeling ○ ESRM6553 – Advanced Multivariate Statistics ○ ESRM699V – Seminar(Logistic Regression & Factor Analysis) |
| 2019 - Present | |
| 2015 – 2017 | Associate Professor of Educational Statistics and Research Methods (ESRM) and Program Co-coordinator, Department of Rehabilitation, Human Resources and Communication Disorder, College of Education |

and Health Professions

2008 – 2014 Assistant Professor of Educational Statistics and research Methods,
College of Education and Health Professions

Arizona State University, Tempe, Arizona

2007 – 2008 *Research Assistant*, Center for Research on Education in Science,
Mathematics, Engineering and Technology (CRESMET), work funded by
National Science Foundation (NSF)
❖ Supervisor: Dr. Joanna Gorin
❖ Project: *Project Pathway – The Math & Science Partnership*
❖ Responsibilities: Extracting and cleaning longitudinal dataset,
Providing statistics and measurement consultation and analysis

2005 – 2007 *Research Assistant*, EDCARE Laboratory, work funded by Dr. Gail
Hackett, ASU Vice-Provost and Dean of University College
❖ Supervisors: Dr. Marilyn Thompson & Dr. Gail Hackett
❖ Projects: *Understanding Freshmen Persistence at Arizona State
University* and *Freshmen Persistence in the Arizona State
University 2002-2004 Cohorts*
❖ Responsibilities: Extracting and cleaning large institutional dataset,
reviewing retention literature and models, analyzing data, building
models, writing reports, and revising and writing items for future
data collection

2006 – 2007 *Research Assistant*, University Technology Office
❖ Supervisor: Dr. Chong Ho Yu
❖ Responsibilities: Statistical consulting and data analysis,
conducting psychometric analyses, and creating data visualization
modules for Paradise Valley School District

2004 – 2005 *Research Assistant*, African American Studies Program
❖ Supervisor: Dr. Leonor Boulton Johnson
❖ Responsibilities: Creating a procedure to match police and police-
spouse data, investigating occupational stress between police
officers and their spouses

2003 - 2005 *Teaching Assistant*, Division of Psychology in Education
❖ Supervisor: Dr. Marilyn Thompson
❖ Responsibilities: assisting with instructional responsibilities for
graduate statistics courses (multiple regression, analysis of
variance, multivariate statistics, and structural equation modeling)
- teaching SPSS skills
- evaluating students' homework
- providing office hours and consultation
- teaching select classes

- 2003 – 2004 *Research Assistant, EDCARE Laboratory, work funded by Maricopa Community Colleges*
- ❖ Supervisor: Dr. Samuel Green
 - ❖ Project: Formal evaluation, *Maricopa Center for Learning and Instruction (MCLI) Review*
 - ❖ Responsibilities: Providing statistics and measurement consultation and analysis, designing website and database for online data collection
- 2000 – 2003 *Research Assistant, EDCARE Laboratory, evaluation work funded by school districts, Arizona State University, and educational agencies*
- ❖ Supervisors: Dr. Marilyn Thompson & Dr. Dee Spencer
 - ❖ Projects:
 - Contributed to three annual evaluations for *Project Venture Technology Innovation Challenge Grant* (funded by U.S. Department of Education)
 - Conducted evaluations and service projects for local school districts and other educational agencies.
 - ❖ Responsibilities: Designing websites and databases for online data collection, providing statistics and measurement consultation and analysis, communicating directly with stakeholders in these agencies

Military Kaohsiung General Hospital, Department of Psychiatry, Kaohsiung, Taiwan

- 1995 – 1998 Chair of Clinical Psychology (1997 – 1998) and Clinical Psychologist (1995 – 1997)
- Responsibilities:
- Biofeedback, psychotherapy, and psychoanalysis
 - Recruiting and training junior psychologists and interns
 - Grant writing and research projects sponsored by Dept. of Defense
 - Individual and group therapy, counseling sexual offenders in Kaohsiung Prison (sponsored by the Department of Interiors)
 - Counseling young prostitutes under age 18
 - Home care: assessing children who have learning disabilities and mental disorders
 - Half-way Center: group and individual counseling

Other Relevant Professional Experience

- 1997 - 1998 Guest Lecturer, Chinese Petroleum Corporation, Taiwan
Taught managers how to cope with pressure and acquire muscle relaxation.
- 1996 Guest Lecturer, Provincial Training Corp. of Taiwan Provincial Government
Taught community nurses about interview skills and mental health.

PUBLICATIONS & PRESENTATIONS

Publications

28. Liu, T., Canon, M. D., Shen, L., Marples, B. A., Colton, J. P., **Lo, W. J.**, Gray, M., Li, C. (2020). The influence of the BDNF Val66Met polymorphism on the association of regular physical activity with cognition among individuals with diabetes. *Biological Research for Nursing*. doi:10.1177/1099800420966648
27. Rosa-Caldwell, M., Brown, J., Lee, D., Wiggs, M., Perry, R., Haynie, W., Caldwell, A., Washington, T. A., **Lo, W.-J.**, Greene, N. (2020). Hepatic alterations during the development and progression of cancer cachexia. *Applied Physiology Nutrition and Metabolism*, 45(5), 500-512.
26. Jozkowski, K. N., Crawford, B. L., Turner, R. C., **Lo, W.-J.** (2020). Knowledge and Sentiments of Roe v. Wade in the Wake of Justice Kavanaugh's Nomination to the U.S. Supreme Court. *Sexuality Research and Social Policy*, 17, 285-300.
25. Williams, B. T., **Lo, W.-J.**, Hill, J., Ezike, N., Huddleston, J. (2019). Employment supports in early work experiences for transition-age youth with disabilities who receive Supplemental Security Income (SSI). *Journal of Vocational Rehabilitation*, 51(2), 159-166
24. Dobbs, P. D., Jozkowski, K., Hammig, B., Blunt-Vinti, H. D., Henry, L. J., **Lo, W. J.**, Gorman, D. & Luzius, A. (2019). College Student E-cigarette Use: A Reasoned Action Approach Measure Development. *American Journal of Health Behavior*, 43(4), 753-766.
23. Li, B., Dittmore, S., Scott, O., **Lo, W. J.**, & Stokowski, S. (2019). Why we follow: Examining motivational differences in following sport organizations on Twitter and Weibo. *Sport Management Review*, 22(3), 335-347.
<https://doi.org/10.1016/j.smr.2018.04.006>
22. Kippenbrock, T. A., **Lo, W. J.**, Emory, J., Buron, W., Odell, E., & Reimers, J. (2018). Nurse Practitioners' Time on Nonbillable Activities. *Journal of the American Association of Nurse Practitioners*, 30(9), 480-490.
21. Marcantonio, T. L., Jozkowski, K. N., & **Lo, W. J.** (2018). Beyond "Just saying no": A preliminary evaluation of strategies college students use to refuse sexual activity. *Archives of Sexual Behavior*, 47(2), 341-351. doi: 10.1007/s10508-017-1130-2.
20. Wills, M., Jozkowski, K. N., & **Lo, W. J.** (2018). Are women's orgasms hindered by phallocentric imperatives? *Archives of Sexual Behavior*, 47(6), 1565-1576. doi: 10.1007/s10508-018-1149-z.
19. Koch, L. C., **Lo, W. J.**, Mamiseishvili, K., Lee, D., & Hill J. (2018). The effect of learning disabilities, attention deficit hyperactivity disorder, and psychiatric disabilities on three-year persistence outcomes at four-year higher education institutions. *Journal of Vocational Rehabilitation*, 48(3), 359-367.

18. Kippenbrock, T. A., **Lo, W. J.**, Odell, E., & Buron, W. (2017). Nurse practitioner leadership in promoting access to rural primary care. *Nursing Economic\$, 35*(3), 119-125. [Impact factor: 0.934: 2015]
17. Yu, L., **Lo, W. J.**, & Lincoln, F. (2017). Effects of intervention on self-regulated learning for English as second language learners. *Chinese Journal of Applied Linguistics, 40*(3), 233-260.
16. Dunn, K. E., & **Lo, W. J.** (2015). Understanding the influence of learners' forethought on their use of science study strategies in post-secondary science learning. *International Journal of Science Education, 37*(16), 2597-2618. [Impact factor: 1.000: 2015]
15. Kippenbrock, T. A., **Lo, W. J.**, Buron, W., & Odell, E. (2015). The southern states: NPs make an impact in rural and health professional shortage areas, *Journal of the American Association of Nurse Practitioners, 27*(12), 707-713. [Impact factor: 1.272: 2015]
14. Green, S. B., Thompson, M. S., Levy, R., & **Lo, W. J.** (2015). Type I and Type II error rates and overall accuracy of the revised parallel analysis method for determining the number of factors. *Educational and Psychological Measurement, 75*(3), 428-457. [Impact factor: 1.485: 2015]
13. Khojasteh, J., & **Lo, W. J.** (2015). Investigating the sensitivity of Goodness-of-Fit indices to detect measurement invariance in a bifactor Model. *Structural Equation Modeling, 22*(4), 531-541. [Impact factor: 3.225: 2016]
12. Beck, D., Maranto, R., & **Lo, W. J.** (2014). Determinants of Student and Parent Satisfaction at a Cyber Charter School. *Journal of Educational Research, 107*(3), 209-216. [Impact factor: 1.181: 2014]
11. Dunn, K. E., Airola, D. T., **Lo, W. J.**, & Garrison, M. (2013). Becoming data driven: The influence of teachers' efficacy on concerns related to data driven decision-making. *Journal of Experimental Education, 81*(2), 222-241. [Impact factor: 1.638: 2015]
10. Dunn, K. E., Airola, D. T., & **Lo, W. J.**, & Garrison, M. (2013). What teachers think about what they can do with data: Development and validation of the Data Driven Decision-Making Efficacy inventory. *Contemporary Educational Psychology, 38*(1), 87-96. [Impact factor: 2.492: 2015]
9. Yang, Y., Chen, Y. H., **Lo, W. J.**, & Turner, J. E. (2012). Cross-cultural evaluation of item wording effects on an attitudinal scale. *Journal of Psychoeducational Assessment, 30*(5), 509-519. [Impact factor: 1.53: 2016]
8. **Lo, W. J.**, Thompson, M. S., & Chen, Y.H. (2012). A Construct Validity Examination on a Chinese Version of the Parental Bonding Instrument Using Confirmatory Factor Analysis. *International Journal of Educational and Psychological Assessment, 11*(2), 20-43. [Impact factor: 1.53: 2016]

7. Dunn, K. E., **Lo, W.J.**, Mulvenon, S., & Sutcliffe, R. (2012). Revisiting the MSLQ: A factor analysis of what is and what could be. *Educational and Psychological Measurement*, 72(2), 689-691.
6. Green, S. B., Levy, R., Thompson, M. S., Lu, M., & **Lo, W. J.** (2012). A proposed solution to the problem with using completely random data to assess the number of factors with parallel analysis. *Educational and Psychological Measurement*, 72(3), 357-374.
5. Crawford, A. V., Green, S. B., Levy, R., **Lo, W. J.**, Scott, L, Svetina, D, & Thompson, M. S. (**authorship alphabetical**; 2010). Evaluation of parallel analysis methods for determining the number of factors. *Educational and Psychological Measurement*, 70(6), 885-901.
4. Newgent, R. A., Behrend, B. A., Lounsbery, K. L., Higgins, K. K., & **Lo. W. J.** (2010). Psychosocial Educational Groups for Students (PEGS): An Evaluation of the Treatment Effectiveness of a School-Based Behavioral Intervention Program. *Counseling Outcome Research and Evaluation*, 1, 80-94.
3. Yu, C. H., DiGangi, A, Jannasch-Pennell, A., Stay, V., **Lo, W. J.**, & Killic, Z. (2007). Multi-sensory cognitive learning as facilitated in a multimedia tutorial for Item Response Theory. *Journal of Systemics, Cybernetics and Informatics*, 5. Retrieved October 10, 2007 from <http://www.iiisci.org/Journal/SCI/Contents.asp>
2. Thompson, M. S., Green, S. B., Chen, Y.-H., Stockford, S., & **Lo, W. J.** (2005). A note on power of the *t* test for normal and mixed normal distributions. *Journal of Modern Applied Statistical Methods*, 4(2), 591-597.
1. Shu, B. C., **Lo, W. J.**, & Lung, F. W. (1999). The reliability and validity of a Chinese version of the Parental Bonding Instrument [Chinese Language]. *The Journal of Nursing Research*. 7(5), 479-489.

Presentations

- Liu, T., Marples, B., Canon, D., Gray, M., **Lo, W. J.**, & Li, C. (2020, November). Associations of moderate to vigorous physical activity with cognitive function by genotypes of the *BDNF* Val66Met variants among U.S. adults aged over 50. Poster presentation at the 2020 International Society of Nurses in Genetics World Congress.
- Ezike, N. & Lo, W.J. (2020, April). *Programme for International Student Assessment (PISA) 2015: Cross-Mode Comparison between Paper- and Computer-Based Assessments*. Presentation at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Lo, W. J. (2020, April). The Parental Bonding Instrument: Alternative Models Comparison and Testing of Factorial Invariance Between Gender Using Categorical Confirmatory Factor Analysis. Poster Presentation at the annual meeting of the American

Educational Research Association, San Francisco, CA.

Turner, R. C., Reimers, J., Lo, W.J., Jozkowski, K., & Crawford, B. (2020, April). *Comparison of Data Quality Indicator Effectiveness with Unidirectional vs. Bidirectional Scales in Survey Research*. Presentation at the annual meeting of the American Educational Research Association, San Francisco, CA.

Reimers, J., Turner, R. C., Lo, W.J., Jozkowski, K., & Crawford, B. (2020, April). *Demographic Comparisons for Various Types of Low Cognitive Effort Survey Responses*. Presentation at the annual meeting of the American Educational Research Association, San Francisco, CA.

Crawford, B.L., Jozkowski, K.N., Turner, R.C., & Lo, W.J. (2020, May). *Investigating Demographic Differences in Selecting "Don't Know" Across Different Abortion Scenarios and Time Points in the Pregnancy*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Montenegro, M., Valdez, D., Kaplan, A., Jozkowski, K.N., Crawford, B.L., Turner, R.C., & Lo, W.J. (2020, May). *Latinx Attitudes Toward Abortion: Descriptive Findings of Abortion Attitudes among the Latinx Community*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Montenegro, M., Valdez, D., Jozkowski, K.N., Crawford, B.L., Turner, R.C., & Lo, W.J. (2020, May). *Religious Affiliation and Abortion Attitudes among Latinos/as in the U.S.* Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Crawford, B.L., Jozkowski, K.N., Turner, R.C., & Lo, W.J. (2020, May). *Assessing Differences in Responses to the General Social Survey Abortion Questions When Including the Gestational Age of the Pregnancy*. Panel presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA. This panel includes the following four presentations.

Turner, R.C., Crawford, B.L., Jozkowski, K.N., & Lo, W.J. (2020, May). *Relationship between Endorsement of GSS Abortion Circumstance Items and Gestational Length Recommendations*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Lo, W.J., Turner, R.C., Crawford, B.L., Jozkowski, K.N., & Weese, J. (2020, May). *Change We Can, or Change We Can't: Sequence Effects for Abortion Item Sets that Incorporate Gestational Timing*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Weese, J., Lo, W.J., Crawford, B.L., Jozkowski, K.N., & Turner, R.C. (2020, May). *How Does Inclusion of Gestational Length and Order Effects Impact Factor Structure of Medical and Social Abortion Item Sets?* Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.

Jozkowski, K.N., Crawford, B.L., Turner, R.C., & Lo, W.J. (2020, May). *Integrating Abortion Circumstances with Gestational Lengths and Developmental Markers: How Do Gestational Time Periods Inform Abortion Attitudes?* Presentation accepted for the

- American Association for Public Opinion Research annual conference, Atlanta, GA.
- Jozkowski, K.N., Crawford, B.L., Turner, R.C., Lo, W.J., & Traugott, M. (2020, May). *Developing New to Assess Abortion Attitudes in the United States*. Panel presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA. This panel includes the following four presentations.
- Jozkowski, K.N., Crawford, B.L., Turner, R.C., & Lo, W.J. (2020, May). *An Interdisciplinary, Multi-dimensional Approach to Developing New Abortion Attitudes Measures in the United States: A Project Overview*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Crawford, B.L., Jozkowski, K.N., Turner, R.C., & Lo, W.J. (2020, May). *Using Formative, Qualitative Data in the Development of New Measures to Assess Abortion Attitudes*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Lo, W.J., Crawford, B.L., Jozkowski, K.N., & Turner, R.C. (2020, May). *Using Ad Hoc Data Collections to Inform the Formative Phase of a Multi-Year Project to Develop New Abortion Attitude Measures*. Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Turner, R.C., Crawford, B.L., Jozkowski, K.N., & Lo, W.J. (2020, May). *All for One or One for All: Are Respondents Answering Different Questions than We Think We are Asking?* Presentation accepted for the American Association for Public Opinion Research annual conference, Atlanta, GA.
- Jozkowski, K. N., Wills, M., Crawford, B. L., Turner, R. C., **Lo, W.-J.** (November 2019). American Public Health Association, "Does empathy toward women who seek abortion predict attitudes toward access to abortion?," Philadelphia, PA, United States.
- Bustamante, J. J., Valdez, D., Crawford, B. L., Turner, R. C., **Lo, W.-J.**, Jozkowski, K. N. (November 2019). American Public Health Association, "Ethnographic challenges in the study of abortion: Establishing access in a Spanish speaking/Latinx southern community," Philadelphia, PA, United States.
- Simmons, M., Jozkowski, K. N., Crawford, B. L., Turner, R. C., **Lo, W.-J.** (November 2019). American Public Health Association, "If it's legal, it's easy: (Mis)perceptions of abortion access across the U.S.," Philadelphia, PA, United States.
- Valdez, D., Wills, M., Jozkowski, K. N., Crawford, B. L., Turner, R. C., **Lo, W.-J.** (November 2019). American Public Health Association, "Objectivity of enacted abortion legislation in the United States: Using latent sentiment analysis to algorithmically identify neutrality in written language," Philadelphia, PA, United States.
- Crawford, B. L., Reimers, J., Wills, M., Turner, R. C., **Lo, W.-J.**, Jozkowski, K. N. (November 2019). American Public Health Association, "Roe v. Wade" versus "legalized abortion": Wording effect influences on survey responses," Philadelphia, PA, United States.

- Valdez, D., Kaplan, A., Maier, J., Diaz, D., Jozkowski, K. N., Crawford, B. L., **Lo, W.-J.**, Turner, R. C. (November 2019). American Public Health Association, "Using the Reasoned Action Approach to assess Latinx abortion perception and attitudes in the United States," Philadelphia, PA, United States.
- Hunt, M., Jozkowski, K. N., Cleland, k., **Lo, W.-J.**, Crawford, B. L., Blunt-Vinti, H. (October 2019). Society for Family Planning, "Do race and pregnancy situation affect empathy for women who seek abortions in Arkansas?: A randomized-controlled video intervention," Los Angeles, CA, United States.
- Lo, W.-J.**, Ezike, N. (August 2019). American Psychological Association Conference, "Comparing searching procedures and differences in fit indices for identifying measurement invariance," Chicago, IL, United States.
- Li, J., Zhang, Q., **Lo, W.-J.** (August 2019). American Psychological Association Conference, "Comparison of correlation, partial correlation, and conditional mutual information for interaction effects screening in generalized linear modeling," Chicago, IL, United States.
- Crawford, B. L., Jozkowski, K. N., Turner, R. C., **Lo, W.-J.** (August 2019). Society for the Study of Social Problems, "Knowledge and sentiment regarding Roe v. Wade before and after the confirmation of Justice Kavanaugh," New York, NY, United States.
- Gattis, C., Rossetti, M. D., Needy, K. L., Clausen, E., **Lo, W.-J.** (June 2019). ASEE Annual Conference & Exposition, "Creating a successful pathway to graduate studies: The student integrated intern research experience (SIIRE)," Tempa, FL, United States.
- Maier, J., Simmons, M., Crawford, B. L., Jozkowski, K. N., Turner, R. C., **Lo, W.-J.** (May 2019). American Association for Public Opinion Research, "Abortion-related identity and sentiment among LGB individuals."
- Crawford, B. L., Jozkowski, K. N., Turner, R. C., **Lo, W.-J.** (May 2019). American Association for Public Opinion Research, "Attitudes regarding Roe v. Wade before and after the confirmation of Justice Kavanaugh," Toronto, Canada.
- Simmons, M., Maier, J., Jozkowski, K. N., Crawford, B. L., Turner, R. C., **Lo, W.-J.** (May 2019). American Association for Public Opinion Research, "Examining differences in "pro-life" and "pro-choice" definitions among adults in the U.S.: How critical conceptual analysis can improve abortion-related polling," Toronto, Canada.
- Lippman, J., Pasek, J., Turner, R. C., **Lo, W.-J.** (May 2019). American Association for Public Opinion Research, "Extracting common information across diverse measures: Identifying the latent attitudes underlying abortion responses," Toronto, Canada.
- Turner, R. c., Reimers, J., Jozkowski, K. N., **Lo, W.-J.**, Crawford, B. L. (May 2019). American Association for Public Opinion Research, "Investigating differential response patterns for sample subgroups: Using DIF analyses to select scaling vs. polling items," Toronto, Canada.

- Joskowski, K. N., Crawford, B. L., Turner, R. C., **Lo, W.-J.** (May 2019). American Association for Public Opinion Research, "Knowledge and sentiments of Roe v. Wade in the wake of Brett Kavanaugh's nomination to the Supreme Court of the United States," Toronto, Canada.
- Crawford, B. L., Jozkowski, K. N., Turner, R. C., **Lo, W.-J.** (May 2019). American Association for Public Opinion Research, "Roe v. Wade should go, but women shouldn't lose their constitutional right to have an abortion: The effects of word choice when assessing abortion attitudes," Toronto, Canada.
- Lo, W.-J.**, Turner, R. C., Crawford, B. L., Jozkowski, K. N. (May 2019). American Association for Public Opinion Research, "To slide or not to slide, That is the psychometric question," Toronto, Canada.
- Lippman, J., Pasek, J., Turner, R., & **Lo, W.-J.** (2019, May). *Extracting common information across diverse measures: Identifying the latent attitudes of underlying abortion responses*, American Association for Public Opinion Research, Toronto Canada.
- Lo, W.-J.** (2019, August). Comparing searching procedures and differences in fit indices for identifying measurement invariance, American Psychological Association Conference, Chicago Illinois.
- Lo, W.-J.**, Turner, R., Crawford, B., & Jozkowski, K.N. (2019, May). *To slide or not to slide, That is the psychometric question*, American Association for Public Opinion Research, Toronto Canada.
- Turner, R., Reimers, J., Jozkowski, K.N., & **Lo, W.-J.** (2019, May). *Investigating differential response patterns for sample subgroups: Using DIF analyses to select scaling vs. polling items*, American Association for Public Opinion Research, Toronto Canada.
- Dale, R. T., Hill, B., **Lo, W. J.**, Shannon, D., & Leckala, H. (2018, February). *Training Arkansas computing teachers (TACT) preliminary results from 2016-2017*. Poster presented at the 49th ACM Technical Symposium on Computer Science Education, Baltimore, MA.
- Hsu, P. L., **Lo, W. J.**, Wang, H. H., Yang, M. S., & Chen, P. C. (2018, June). *Psychometric testing of the confidence in managing patients' aggression scale*, STTI 4th Biennial European Conference, Cambridge, United Kingdom.
- Morrison, B., Tanaka, A., Turner, R. C., & **Lo, W. J.** (2018, May). *Investigating measurement invariance and other psychometric measures of the mindset instrument*. Poster presented at the Association for Psychological Science Annual Convention, San Francisco, CA.
- Willis, M., Jozkowski, K. N., Lo, W., & Sanders, S. A. (2018, July). Why the gender of a woman's partner predicts whether she orgasms. Pecha Kucha presentation at the BPS Psychology of Sexualities 20th Anniversary Conference, London, UK.
- Yang, L., Liang, X., & **Lo, W. J.** (2018, April). *Testing measurement invariance in multilevel data with unequal within-level and between-level factor structures*. Poster presented

- at the American Educational Research Association, New York, New York.
- Zhang, P., Zhang, Q., & **Lo, W. J.** (2018, April). *A linear-linear growth model with individual change points: The maximum likelihood and Bayesian solutions*. Poster presented at the American Educational Research Association, New York, New York.
- Li, B., Dittmore, S., **Lo, W. J.**, Scott, O., & Stokowski, S. (2017, November). *Exploring differences in NBA fans' motivation following sport organizations on Twitter and Weibo*. Poster presented at the 15th Annual Sport Marketing Association Conference, Boston, MA.
- Jozkowski, K. N., Marcantonio, T., & **Lo, W. J.** (2017, November). It isn't always a clear "no": Findings from interviews with college students on how they refuse sexual activity. Paper presented to the American Public Health Conference; Atlanta, GA.
- Marcantonio, T., Jozkowski, K. N., & **Lo, W. J.** (2017, November). Saying "no" isn't how they do it: A preliminary evaluation of how college students refuse sexual activity. Paper presented to the Society for the Scientific Study of Sexuality; Atlanta, GA.
- Morrison, B., Liang, X., & **Lo, W. J.** (2017, May). *Analyzing the effects of the absence of levels in multilevel modeling using TIMSS data*. Poster presented at the Modern Modeling Methods annual conference, Storrs, CT.
- Willis, M., Jozkowski, K. N., **Lo, W. J.**, Sanders, S. A. (2017, July). Are Women's Orgasms Hindered by Phallocentric Imperatives? Oral presentation at the 43rd Annual Meeting of the International Academy of Sex Research, Charleston, SC.
- Yang, L., Liang, X., & **Lo, W. J.** (2017, May). *Investigating measurement invariance across ethnicity groups on students' perception of mathematics*. Poster presented at the Modern Modeling Methods annual conference, Storrs, CT.
- Dunn, K., **Lo, W. J.**, & Airola, D. T. (2017, April). *Initial validation of the pre-service data driven decision-making efficacy and anxiety inventory*. Paper presented at the American Educational Research Association, San Antonio, Texas.
- Kim, S. Y., & **Lo, W. J.** (2017, June). The effects of sport involvement on college adjustment. Presented at the 31st Annual North American Society of Sport Management Conference. Denver, CO.
- Canan, S. N., Jozkowski, J. N., **Lo, W. J.** (2016, October). *Validity and reliability analysis of a new multidimensional measure of attitudes toward sexual health education*. Presentation at annual American Public Health Association.
- Morrison, B., **Lo, W. J.**, Turner, R., Yang, L., & Su, S.H. (2016, April). Investigating factor structure and method effects of the PISA perceived control scale. Paper presented at the American Educational Research Association annual conference, Washington, D. C.
- Yang, L., Turner, R., **Lo, W. J.**, & Su, S. H. (2016, March). *Improving Science Communication through a University Professional Development and K-12 Immersion Program*. Submitted to the International Journal of Arts and Sciences conference for Social Sciences and Humanities, Las Vegas, Nevada.

- Yu, L. & **Lo, W. J.** (2016, April). *Effects of intervention on self-regulated learning for second language learners*. Paper presented at the American Educational Research Association annual conference, Washington, D.C.
- Yu, L. & **Lo, W. J.** (April, 2015). *Relationship among self-regulation variables in a second language learning context*. Presented at the American Educational Research Association, Chicago, Illinois.
- Dunn, K. E., & **Lo, W. J.** (August, 2014). *Validating Zimmerman's model of self-regulated learning: Phases one and two*. Presented at the American Psychological Association Convention; Washington, DC.
- Khojasteh, J., **Lo, W. J.**, & Mulvenon, S. W. (April, 2014). *Investigating Goodness-of-fit Indices to Detect Measurement Invariance in a Second-Order Model*. Presented at the annual meeting of the American Educational Research Association, Philadelphia, Pennsylvania.
- Lo, W. J.**, Thompson, M. S., & Khojasteh, J. (August, 2013). *Investigating Item Wording Effects and Invariance for A Parenting Measure*. Presented at the American Psychological Association Convention; Honolulu, Hawaii.
- Turner, R. C. & **Lo, W. J.** (August, 2013). *Comparison of DIF Purification and CFA Procedures when Contamination is Unbalanced*. Presented at the American Psychological Association Convention; Honolulu, Hawaii.
- Turner, R. C., & **Lo, W. J.** (April, 2013). *Impact of using a two-step DIF purification process to classify group-specific biased items under unbalanced DIF item proportion conditions*. Paper will be presented at the annual conference of the National Council on Measurement in Education, San Francisco, CA.
- Khojasteh, J., **Lo, W. J.**, & Mulvenon, S. W. (April, 2013). *Investigating the Sensitivity of Goodness-of-fit Indices to Detect Measurement Invariance in the Bifactor Model*. Presented at the annual meeting of the American Educational Research Association, San Francisco, California.
- Beck, D., Maranto, R., & Lo, W. J. (March, 2013). *Parent involvement and student/parent satisfaction in cyber schools*. Presented at the Society for Information Technology & Teacher Education International Conference (SITE), New Orleans, Louisiana.
- Dunn, K. E., Airola, D. T., & **Lo, W. J.** (August, 2012). *The change process associated with teacher adoption of data driven decision-making: A SEM approach*. Paper presented at the American Psychological Association Convention; Orlando, Florida.
- Green, S. B., **Lo, W. J.**, Thompson, M. S., & Levy, R., (April, 2012). *A Stepwise Hypothesis-Testing Approach to Assess the Number of Underlying Factors: Revised Parallel Analysis as an Alternative to Maximum Likelihood Testing*. Paper presented at the annual conference of the American Educational Research Association, Vancouver, Canada.
- Dunn, K. E., **Lo, W. J.**, Mulvenon, S. W., & Sutcliffe, R. (August, 2011). *Reuse, reevaluate,*

recycle: Statistical and theoretical reevaluation of the MSLQ. Paper presented at the American Psychological Association Convention; Washington D.C.

Lo, W. J., Chen, Y. H., & Khojasteh, J. (April, 2011). *The Parental Bonding Instrument: Investigating Method Effects with Negatively Wording Items and Testing of Factorial Invariance between Gender Equivalence.* Presented at the annual conference of the American Educational Research Association, New Orleans, Louisiana.

Chen, Y.-H., & **Lo, W. J.** (April, 2011). *Exploring Method Effects on an Attitude toward Mathematics Scale across American and Taiwanese Eighth Graders: A Confirmatory Factor Analysis Approach.* Presented at the annual conference of the American Educational Research Association, New Orleans, Louisiana.

Green, S. B., Thompson, M. S., Levy, R., Lu, M., **Lo, W. J.** Svetina, D, Crawford, A. V., & Scott, L. (April, 2011). *Use of completely random data to assess the number of factors with parallel analysis: An empirical evaluation of a conceptual flaw and its correction.* Presented at the annual conference of the American Educational Research Association, New Orleans, Louisiana.

Johnson, C. S., Gitchee, D. W., & **Lo, W. J.** (April, 2011). *Gender Differences in Measuring Self-Esteem: Comparing Differential Item Functioning and Structural Equation Modeling Analyses.* Presented at the annual conference of the American Educational Research Association, New Orleans, Louisiana.

Woodworth, J. L., **Lo, W. J.,** McGee, J. B., & Jensen, N. C. (March, 2011). *The Impact of Selection of Student Achievement Measurement Instrument on Teacher Value-added Measures.* Presented at the annual conference of the Association for Education Finance and Policy, Seattle, Washington.

Lo, W. J., Khojasteh, J., & Mulvenon, S. (April, 2010). *The sensitivity of the omnibus hypothesis test for identifying noninvariant measure.* Presented at the annual meeting of the American Educational Research Association, Denver, Colorado.

Dunn, K. E., **Lo, W. J.,** Sutcliffe, R., Mulvenon, S. (April, 2010). *Revisiting the MSLQ: A Factor Analysis of What Is and What Could Be.* Presented at the annual meeting of the American Educational Research Association, Denver, Colorado.

Lo, W. J., & Thompson, M. S. (April, 2009). *Using Goodness-of-Fit Indices for Identifying Partial Measurement Invariance.* Presented at the annual meeting of the American Educational Research Association, San Diego, California.

Crawford, A. V., Green, S. B., Levy, R., **Lo, W. J.,** Scott, L, Svetina, D, & Thompson, M. S. (alphabetical; April, 2009). *Evaluation of Parallel Analysis Methods for Determining the Number of Factors.* Presented at the annual meeting of the American Educational Research Association, San Diego, California.

Chen, Y.-H., Yang, Y., **Lo, W. J.,** & Zhang, Y. (April, 2009). *Cross-Cultural Evaluation of Item Wording Effects on a Self-Perception Scale.* Presented at the annual meeting of the American Educational Research Association, San Diego, California.

- Dunn, K. E., **Lo, W.J.**, Johnson, C. A., & Sutcliffe, R. (August 2009). *Examining teacher beliefs: The development and validation of the Teacher Beliefs about Teaching Knowledge survey*. Poster presented at the 117th Annual Meeting of the American Psychological Association; Toronto, Canada.
- Lo, W. J.**, & Thompson, M. S. (April, 2007). *A Study of freshmen persistence using components of Tinto's Model*. Presented at the annual meeting of the American Educational Research Association, Chicago, Illinois.
- Lo, W. J.**, & Thompson, M. S. (April, 2006). *The Parental Bonding Instrument: Alternative models comparison and testing of factorial invariance between gender*. Presented at the annual meeting of the American Educational Research Association, San Francisco, California.
- Yu, C. H., DiGangi, A., Jannasch-Pennell, A., Kim, C., Stay, V., **Lo, W. J.**, & Long, L. (August, 2006). *Interactive animation for learning Item Response Theory and misfit identification in Item Response Theory*. Presented at the annual Joint Statistical Meeting of the American Statistical Association, Seattle, Washington.
- Yu, C. H., Jannasch-Pennell, A., Stay, V., DiGangi, S., Kim, C., Long L., **Lo, W. J.**, Kilic, Z., Kang, S., & Freeman, R. (2006). *Multi-sensory cognitive learning as facilitated in a FLASH tutorial for Item Response Theory*. Presented at International Conference on Education and Information Systems, Technologies and Applications, Orlando, Florida.
- Thompson, M. S. & **Lo, W. J.** (April, 2005). *Assessing partial invariance with forward and backward search methods*. Presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Yang, Y. Y., Argo, A., **Lo, W. J.**, Chen, Y. H., Gorin, G., Green, S. B., and Thompson, M. S. (April, 2005). *Item analysis methods for emergent factors: A case study of a stress scale*. Presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Chen, Y. H., **Lo, W. J.**, & Yang, Y. (October, 2004). *Exploring the effects of teachers' characteristics on students' attitude and mathematics achievements: Application of HLM to Taiwan data from TIMSS-1999*. Presented at the annual meeting of the Arizona Educational Research Organization, Tempe, Arizona.
- Lo, W. J.**, & Thompson, M. S. (April, 2003). *The Parental Bonding Instrument: A confirmatory factor analytic comparison of alternative models in a Taiwanese sample*. Presented at the annual meeting of the American Educational Research Association, Chicago, Illinois.
- Chen, Y. H., **Lo, W. J.**, & Yang, Y. Y. (October, 2003). *Analyzing data from complex large-scale samples*. Presented at the annual meeting of the Arizona Educational Research Organization, Tempe, Arizona.
- Thompson, M. S., Green, S. B., Stockford, S. M., Chen, Y. H., & **Lo, W. J.** (April, 2002). *The .05 Level: The probability that the independent-samples t test should be applied?* Presented at the annual meeting of the American Educational Research Association,

- 2013 – 2016 Hill, B. (P.I.), Gattis, C. (Co-P.I.), Clausen, E. (Co-P.I.), Woodland, J. (Co-P.I.), Tschepikow, N. (Co-P.I.), Dougan, K. (Co-P.I.), & **Lo, W. J.** (External Evaluator)
- ❖ Arkansas Engineering, Science & Mathematics Partnership
 - ❖ Arkansas Department of Education
 - ❖ Award period: 8/5/2013 to 8/4/2016
 - ❖ Amount: \$1,454,129
 - \$595,713 (1st year); \$404,644 (2nd year); \$453,772 (3rd year)
- 2012 – 2014 Hill, B. (P.I.), Gattis, C. (Co-P.I.), Clausen, E. (Co-P.I.), Woodland, J. (Co-P.I.), Tschepikow, N. (Co-P.I.), Dougan, K. (Co-P.I.), & **Lo, W. J.** (External Evaluator)
- ❖ UA Engineering & Mathematic Partnership – Year 2
 - ❖ Arkansas Department of Education
 - ❖ Award period: 8/5/2012 to 8/4/2014
 - ❖ Amount: \$601,860
 - \$289,690 (2nd Year); \$312,170 (3rd Year)
- 2012 – 2013 Mulvenon, S. (P.I.), Stegman, C. (Co-P.I.), **Lo, W. J.** (Co-P.I.), & Dunn, K. (Co-P.I.)
- ❖ Integrated School Improvement Data Model 2013.
 - ❖ Arkansas Department of Education
 - ❖ Award number: FY2013_19-11-251
 - ❖ Award period: 7/1/2012 to 6/30/2013
 - ❖ Amount: \$956,306.00
- 2011 – 2012 Mulvenon, S. (P.I.), Stegman, C. (Co-P.I.) & **Lo, W. J.** (Co-P.I.)
- ❖ ADE: Integrated School Improvement Data Model.
 - ❖ Arkansas Department of Education
 - ❖ Award number: A.C.A. 19-11-251
 - ❖ Award period: 7/1/2011 to 6/30/2012
 - ❖ Amount: \$1,162,338.87
- 2008 – 2011 Dunn, K. E. (P.I.), **Lo, W. J.** (Co-P.I.), Lucas, C. J., & Mulvenon, S.
- ❖ Evaluation of the Gradual Release of Responsibility Initiative.
 - ❖ Springdale School District, Springdale, AR
 - ❖ Award period: 9/1/2008 to 5/31/2011
 - ❖ Amount: \$15,000 for 2009, \$15,000 for 2010, and \$8,000 for 2011

New Orleans, Louisiana.

Thompson, M. S., Green, S. B., Stockford, S. M., Chen, Y. H., & **Lo, W. J.** (April, 2002). *Applying newer parametric approaches to old parametric problems: Trimmed means, bootstrapping, and dominance statistics*. Presented as an Educational Psychology brownbag seminar and as a Psychology Department Quantitative Series seminar.

Lo, W. J., Yu, C. H., & Stockford, S. (March, 2002). *Implementation of flash Simulation for interactive instructional modules*. Presented at the 21th Annual Microcomputer in Education Conference, Tempe, Arizona.

Stockford, S., **Lo, W. J.**, Chen, Y. H., Thompson, M. S., Green, S. B., & Yu, C. H. (October, 2001). *Confronting the statistical assumptions: New alternatives for comparing groups*. Presented at the annual meeting of the Arizona Educational Research Organization, Tempe, Arizona.

Yu, C. H., **Lo, W. J.**, & Stockford, S. (August, 2001). *Using multimedia to visualize the concepts of degrees of freedom in terms of sample size and dimensionality*. Presented at the annual Joint Statistical Meeting of the American Statistical Association, Atlanta, Georgia.

Evaluations and Technical Reports

26. **Lo, W. J.** (2020). *Closing the STEM Labor Gap through a Path to Graduation for Low Income, Rural Students – Formal evaluation (2nd Year)*. Submitted to National Science Foundation (NSF).

25. **Lo, W. J.** (2020). *The REU Site: From bench to market: Engineering systems for high efficiency separations – Formal evaluation (3rd Year)*. Submitted to National Science Foundation (NSF).

24. **Lo, W. J.** (2019). *Closing the STEM Labor Gap through a Path to Graduation for Low Income, Rural Students – Formal evaluation (1st Year)*. Submitted to National Science Foundation (NSF).

23. **Lo, W. J.** (2019). *The REU Site: From bench to market: Engineering systems for high efficiency separations – Formal evaluation (2nd Year)*. Submitted to National Science Foundation (NSF).

22. **Lo, W. J.** (2018). *The REU Site: From bench to market: Engineering systems for high efficiency separations – Formal evaluation (1st Year)*. Submitted to National Science Foundation (NSF).

21. **Lo, W. J.** (2017). *The south Arkansas K – 4 science initiative – Formal evaluation (2nd Year and Final Report)*. Submitted to Arkansas Department of Education.

20. **Lo, W. J.** (2016). *University of Arkansas science and engineering partnership - Formal evaluation (Year Three and Final Report)*. Submitted to Arkansas Department of Education.

19. **Lo, W. J.** (2016). The south Arkansas K – 4 science initiative – *Formal evaluation (1st Year)*. Submitted to Arkansas Department of Education.
18. **Lo, W. J.** (2016). *Arkansas engineering, science & mathematics partnership (AESM) - Formal evaluation (3rd and Final Year)*. Submitted to Arkansas Department of Education.
17. **Lo, W. J.** (2016). *The south Arkansas integrated science and mathematics initiative – formal evaluation (3rd and Final Year)*. Submitted to Arkansas Department of Education.
16. **Lo, W. J.** (2015). *Arkansas engineering, science & mathematics partnership (AESM) - Formal evaluation (2nd Year)*. Submitted to Arkansas Department of Education.
15. **Lo, W. J.** (2015). *The south Arkansas integrated science and mathematics initiative – formal evaluation (2nd Year)*. Submitted to Arkansas Department of Education.
14. **Lo, W. J.** (2014). Arkansas Engineering, Science & Mathematics Partnership. Formal evaluation (1st Year) submitted to Arkansas Department of Education.
13. **Lo, W. J.** (2014). UA-engineering & mathematics partnership. Third year and final evaluation submitted to Arkansas Department of Education.
12. **Lo, W. J.** (2013). UA-engineering & mathematics partnership. Formal evaluation (2nd Year) submitted to Arkansas Department of Education.
11. **Lo, W. J.**, & Khojasteh, J. (2012). *1968 – 2009 Time series user guide*. Formal evaluation submitted to the Office for Civil Right, U.S. Department of Education.
10. Dunn, K. E., **Lo, W. J.**, Lucas, C. J., & Mulvenon, S. (2011). *Springdale School District: Evaluation of the Implementation of Gradual Release of Responsibility*. Formal evaluation (3rd Year) submitted to the Springdale School District.
9. Dunn, K. E., **Lo, W. J.**, Lucas, C. J., Mulvenon, S., & Sutcliffe, R. (2010). *Springdale School District: Evaluation of the Implementation of Gradual Release of Responsibility*. Formal evaluation (2nd Year) submitted to the Springdale School District.
8. Dunn, K. E., **Lo, W. J.**, Lucas, C. J., Mulvenon, S., & Sutcliffe, R. (2009). *Springdale School District: Evaluation of the Implementation of Gradual Release of Responsibility*. Formal evaluation (1st Year) submitted to the Springdale School District.
7. **Lo, W. J.**, & Thompson, M. S. (2007). *An empirical approach to understanding freshmen persistence at Arizona State University*. Protocol for future retention data collection for Arizona State University.
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5. Green, S. B., Spencer, D. A., **Lo, W. J.**, & Argo, A. (2004). *Maricopa Center for Learning and Instruction (MCLI) review.* Formal evaluation submitted to the Arizona Department of Education.
4. Thompson, M. S., Bhatia, S., **Lo, W. J.**, & Stockford, S. (2004). *Report on the 2004 teacher demand survey.* Report on survey of the demand for teachers in Maricopa and Pinal counties.
3. Spencer, D. A., Thompson, M. S., Bhatia, S., **Lo, W. J.**, Harthun, M. L., Murphy, S., Foro, J., & Flanagan, K. (2003). *Project Venture technology innovation challenge grant, Formative evaluation report: Year 5.* Formal evaluation submitted to the U. S. Department of Education.
2. Spencer, D. A., Thompson, M. S., Bhatia, S., **Lo, W. J.** (2003). *Review of software for Arizona school services through educational technology and the Cox education network's learning station.* Formal evaluation submitted to Arizona school services through educational technology.
1. Spencer, D. A., Thompson, M. S., Bhatia, S., Puri, S., **Lo, W. J.**, Harthun, M. L., Murphy, S., Foro, J., & Flanagan, K. (2002). *Project Venture technology innovation challenge grant, Formative evaluation report: Year 4.* Formal evaluation submitted to the U. S. Department of Education.

SPONSORED PROJECTS

Funded

- | | |
|-------------|--|
| 2020 – 2023 | <p>Liu, T. (P.I.), Lo, W. J. (Co-P.I.), Gray, M. (Co-PI), Li, C. (Co-PI)</p> <ul style="list-style-type: none"> ❖ Feasibility testing a randomized controlled trial of an mHealth-enhanced exercise program to improve cognition for T2DM patients ❖ National Institutes of Health (NIH) ❖ Award period: 9/25/2020 to 9/24/2023 ❖ Amount: \$446,268 |
| 2020 – 2021 | <p>Liu, T. (P.I.), Lo, W. J. (Co-P.I.), Li, C. (Co-PI), Primack, B. (Co-P.I.), Wang, J. (Co-P.I.)</p> <ul style="list-style-type: none"> ❖ Feasibility testing a randomized controlled trial of an mHealth-enhanced exercise program to improve cognition for T2DM patients ❖ Arkansas Biosciences Institute (ABI) ❖ Award period: 7/1/2020 to 5/10/2021 ❖ Amount: \$64,485 |
| 2020 – 2025 | <p>Greene, N. (P.I.), Washington, T. (Co-P.I.), Muldoon, T. (Co-PI), Nelson, C. (Co-P.I.), Lo, W. J. (Statistical consultant)</p> <ul style="list-style-type: none"> ❖ Development of Targeted Approaches in Prevention of Cancer-Cachexia ❖ National Institutes of Health (NIH) ❖ Award period: 7/1/2020 to 6/30/2025 ❖ Amount: \$1,600,000 |
| 2019 – 2024 | <p>Chaovalitwongse, W. (P.I.), Hill, B. (Co-P.I.), Pohl, E. (Co-PI), Turner, R. (Co-P.I.), Lo, W. J. (External Evaluator)</p> <ul style="list-style-type: none"> ❖ Multidisciplinary Data Science Education to Prepare STEM Students for Data Science Careers ❖ National Science Foundation (NSF) ❖ Award period: 10/1/2019 to 09/30/2024 ❖ Amount: \$1,000,000 |
| 2018 – 2020 | <p>Jozkowski, K. (P.I.), Brandon, C. (Co-P.I.), Lo, W. J. (Co-PI), Turner, R. (Co-P.I.)</p> <ul style="list-style-type: none"> ❖ Developing and Assessing Measures for the Social Sciences ❖ Private Foundation ❖ Award period: 1/1/2018 to 12/31/2020 ❖ Amount: \$10,709,589 |
| 2018 – 2022 | <p>Adams, P. (P.I.), Boyd, T. (Co-P.I.), Yingling, L. M. (Co-P.I.), Bryan, H. (Co-PI), Gattis, C. S. (Co-P.I.), Murphy-Erdy, Y. (Co-PI), Lo, W. J. (External Evaluator)</p> <ul style="list-style-type: none"> ❖ Closing the STEM Labor Gap through a Path to Graduation for Low Income, Rural Students (#1742496) |

	<ul style="list-style-type: none"> ❖ National Science Foundation (NSF) ❖ Award period: 1/1/2018 to 12/31/2022 ❖ Amount: \$999,874
2018 – 2020	<p>Thompson, D. (P.I.), Di, J. (Co-P.I.), Rainwater, C. (Co-P.I.), Ricke, S. (Co-P.I.), Lo, W. J. (External Evaluator)</p> <ul style="list-style-type: none"> ❖ Student Cross-Training Opportunities for Combining Food and Cybersecurity into an Academic Food Systems Education Program ❖ U.S. Department of Agriculture ❖ Award period: 3/1/2018 to 7/31/2020 ❖ Amount: \$204,092
2017 – 2020	<p>Servoss, S. (P.I.), Lo, W. J. (External Evaluator)</p> <ul style="list-style-type: none"> ❖ REU site: From Bench to Market: Engineering Systems for High Efficiency Separations (#1659653) ❖ National Science Foundation (NSF) ❖ Award period: 7/1/2017 to 6/30/2020 ❖ Amount: \$372,888
2015 – 2018	<p>Thompson, D. (P.I.), Oliver, W. (Co-P.I.), Hill, B. (Co-P.I.), Specking, E. (Co-P.I.), Lo, W. J. (Internal Evaluator), & Shannon, D. (External Evaluator)</p> <ul style="list-style-type: none"> ❖ CS10K: training Arkansas Computing Teachers (TACT)[#1543195] ❖ National Science Foundation (NSF) ❖ Award period: 10/1/2015 to 9/30/2018 (#1543195) ❖ Amount: \$991,664 (1st year)
2015 – 2017	<p>Hill, B. (P.I.), Gattis, C. (Co-P.I.), Clausen, E. (Co-P.I.), Woodland, J. (Co-P.I.), Tschepikow, N. (Co-P.I.), Dougan, K. (Co-P.I.), & Lo, W. J. (External Evaluator)</p> <ul style="list-style-type: none"> ❖ University of Arkansas Science & Engineering Partnership ❖ Arkansas Department of Education ❖ Award period: 8/5/2015 to 8/4/2017 ❖ Amount: \$1,139,911 <ul style="list-style-type: none"> ▪ \$595,713 (1st year); \$544,198 (2nd year)
2015 – 2017	<p>Guevara, R. (P.I.), & Lo, W. J. (External Evaluator)</p> <ul style="list-style-type: none"> ❖ The South Arkansas K – 4 Science Initiative ❖ Arkansas Department of Education ❖ Award period: 8/5/2015 to 8/4/2017 ❖ Amount: \$185,637 (1st year)
2014 – 2016	<p>Guevara, R. (P.I.), & Lo, W. J. (External Evaluator)</p> <ul style="list-style-type: none"> ❖ The South Arkansas Integrated Science and Mathematics Initiative ❖ Arkansas Department of Education ❖ Award period: 8/5/2014 to 8/4/2016 ❖ Amount: \$216,646 <ul style="list-style-type: none"> ▪ \$?? (2nd year); \$216,646 (3rd year)

PROFESSIONAL AFFILIATIONS AND REVIEWING

- ❖ American Association for Public Opinion Research (AAPOR)
 - Reviewer of proposals
- ❖ American Educational Research Association (AERA)
 - Reviewer of proposals for Division D, Division J, and Structural Equation Modeling Special Interest Group (SEM SIG)
 - Session Chair for Division D
 - Session Chair for SEM SIG
 - Member (2012-2013): Division D Early Career Award Committee
- ❖ American Psychological Association (APA: 29891422) – Division 5: Quantitative and Qualitative Methods
- ❖ Co-editor (2010 - 2012) & Reviewer, *Journal of Educational Research and Policy Studies*.
- ❖ Reviewer, *Educational and Psychological Measurement*
- ❖ Reviewer, *Structural Equation Modeling*
- ❖ Reviewer, *International Journal of Quantitative Research in Education*
- ❖ Reviewer, *Journal of Applied Statistical Methods*

OTHER PROFESSIONAL TRAINING

- ❖ Professional License (#000572): Clinical Psychologist, Taiwan

AWARDS

- | | |
|------|--|
| 2015 | 2015 George Denny STAR Award (Teaching, Research, and Service)
College of Education and Health Professions
University of Arkansas |
| 2015 | 2015 RHRC Outstanding All Around Faculty Award (Teaching, Research, and Service)
Department of Rehabilitation, Human Resource, and Communication Disorders
College of Education and Health Professions |
| 2010 | 2010 CIED Rising Star Award (Teaching, Research, and Service)
Department of Curriculum and Instruction
College of Education and Health Professions |

Master of Healthcare Business Analytics

Appendix C

Workforce Analysis Request Form

Workforce Analysis Request Form

Directions: An institution shall use this form to request workforce data analysis of a proposed degree program. In completing the form, the institution should refer to the document [AHECB Policy 5.11 Approval of New Degree Programs and Units](#), which prescribes specific requirements for new degree programs. **Note:** This form is required to be submitted by the Chief Academic Officer or individual(s) they designate. Answers need not be confined to the space allotted but may extend to several pages.

Program Information for Analysis

1. Institution:
University of Arkansas, Fayetteville

2. Program Name – Show how the program would appear on the Coordinating Board's program inventory (e.g., *Bachelor of Business Administration or Associate of Science in Accounting*):

Master of Healthcare Business Analytics

3. Proposed CIP Code: If the proposed program does not fit easily into one [CIP Code](#), provide the code it most closely falls into and explain differences / nuances of your program

51.2706 – best description – healthcare and business analytics

4a. [Standard Occupational Classification \(SOC\)](#) from CIP-SOC Crosswalk:

Take SOC codes from NCES Crosswalk of CIP to SOC, ranked in order of relevance (i.e., the degree to which program graduates are expected to desire and/or be qualified to work in each occupation) **(See Appendix A)**

51.2706	Medical Informatics.	15-1111	Computer and Information Research Scientists
51.2706	Medical Informatics.	15-1132	Software Developers, Applications
51.2706	Medical Informatics.	15-1199	Computer Occupations, All Other

4b. Standard Occupational Classification (SOC) from Expert/Staff Opinion (optional): If you think the standard NCES crosswalk accurately represents the list of occupations in which graduates of the proposed program will be qualified to work, leave this blank. If you think the list of target occupations is longer, shorter, or different, please provide an alternative list here, ranked in order of relevance. Feel free to add qualitative information about the variety of jobs and pay scales that may exist within target occupations, and where you expect graduates to fit in. **(See Appendix A)**

Other-

- Healthcare and Business Analytics
- Healthcare Patient Data and Analytics
- Healthcare Patient Data Management
- Healthcare Provider Analytics
- Healthcare Provider Data Management

51.0706	Health Information/Medical Records Administration/Administrator	11-9111	Medical and Health Services Managers
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51.0707	Health Information/Medical Records Technology/Technician.	29-2071	Medical Records and Health Information Technicians
<p>5. <u>Brief Program Description</u> – Describe the proposed program, the costs and investments involved in implementing it, the students you expect to recruit into it, and its educational objectives.</p> <p>The Master of Healthcare Business Analytics (M.H.B.A.) degree is a professional thirty (30) hour degree focusing on business analytics applications in healthcare and healthcare analytics applications. This new and innovative graduate degree program is an intra-college program between the Sam M. Walton College of Business and the College of Education and Health Professions.</p> <p>The degree will address barriers and facilitators to adoption of new procedures in the healthcare environment, as well as how analytics can achieve modern healthcare system goals: high-quality, responsive, affordable, and efficient care. Healthcare systems capture enormous amounts of information (such as electronic health records, billing information, patient wait times, supply records) as well as more novel forms of data (such as chronic disease monitoring, radio-frequency identification tracking, etc.). Managerial issues such as how to get electronic data users to employ it consistently for improving healthcare delivery, managing the reporting and sharing of data, and leveraging data and resources to improve health at a manageable cost. This degree program is designed to provide professional preparation for positions in healthcare business, government, and public service. Sufficient flexibility is provided to meet the needs of students with various backgrounds and foster lifelong learning and innovation.</p> <p>This new innovative intra-college Master's degree program utilizes five (5) new courses in healthcare analytics as well as five (5) existing graduate courses in business analytics. Existing graduate faculty will be used in the program with two (2) additional teaching faculty and two (2) additional research faculty.</p> <p>With the need for high-quality, responsive, affordable, and efficient healthcare systems, the demand for healthcare analytics professionals has significantly increased. As a consequence, students from the healthcare industry and the health provider industry (insurance providers) will be recruited. Moreover, the proposed degree program will provide professional education to address the significant increased demand for healthcare analytics professionals as well as those workers seeking to position themselves in the healthcare industry.</p> <p>6. <u>North American Industry Classification System (NAICS)</u> – List some industries and/or companies which graduates would be most likely and/or qualified to work in (optional), and feel free to comment on why/in what capacity. Also, a description of the target industry in your region, its relative strength or weakness relative to other regions, and the reasons for that relative strength or weakness, is welcome. <u>Lookup NAICS Code</u></p> <p>General -</p> <ul style="list-style-type: none"> - Healthcare Industry - Hospitals and Healthcare Facilities - Insurance Industry - Federal, State, and Local Government Agencies <p>Some possible NAICS Codes that could be applicable:</p> <ul style="list-style-type: none"> 62 Health Care and Social Assistance 6211 Offices of Physicians 622 Hospitals 623 Nursing and Residential Care Facilities 624 Social Assistance 			

524291 Claims adjusting, insurance
524291 Insurance claims adjusting
524291 Insurance claims investigation services
524292 Claims processing services, insurance, third party
524292 Insurance claims processing services, third party
524292 Insurance fund, third party administrative services (except claims adjusting only)
524292 Insurance plan administrative services (except claims adjusting only), third party
524298 Insurance investigation services (except claims investigation)

7. Region of Possible Position(s) – Describe the region where you think graduates are most likely to work, e.g., in terms of a list of counties, a metropolitan statistical area, or a commuting radius:

Northwest Arkansas
Ft. Smith, AR
Little Rock, AR
State of Arkansas
Region – Arkansas, Texas, Oklahoma, Missouri, Kansas, & Louisiana

8. Existing Data – Describe any existing anecdotes or data you have that would shed light on the job prospects of graduates from the proposed academic program. This data can be helpful to ADFA in conducting labor market analysis.

- Comments and input from Walton College Enterprise Systems Advisory Council
- The **Master of Healthcare Business Analytics (M.H.B.A.)** degree is a professional thirty (30) hour degree focusing on business analytics applications in healthcare and healthcare analytics applications. This new and innovative graduate degree program is an intra-college program between the Sam M. Walton College of Business and the College of Education and Health Professions.
- The degree will address barriers and facilitators to adoption of new procedures in the healthcare environment, as well as how analytics can achieve modern healthcare system goals: high-quality, responsive, affordable, and efficient care. Healthcare systems capture enormous amounts of information (such as electronic health records, billing information, patient wait times, supply records) as well as more novel forms of data (such as chronic disease monitoring, radio-frequency identification tracking, etc.). Managerial issues such as how to get electronic data users to employ it consistently for improving healthcare delivery, managing the reporting and sharing of data, and leveraging data and resources to improve health at a manageable cost. This degree program is designed to provide professional preparation for positions in healthcare business, government, and public service. Sufficient flexibility is provided to meet the needs of students with various backgrounds and foster lifelong learning and innovation.

9. Proposed Implementation Date – (MM/DD/YY):

- **Fall, 2022 (08/15/2022)**

10. Contact Person – Provide contact information for the person who can answer specific questions about the program:

Name: **Paul Cronan**

Title: **Professor**

E-mail: **cronan@uark.edu**

Phone: **(479) 575-6130**

Email the completed form: Dr. Nicolas Aguelakakis (Nicolas.Aguelakakis@arkansas.gov).

After the labor market analysis has been completed, the institution will be invited to respond, providing further information that might shed light and help to interpret the data provided.

APPENDIX A. CIP-SOC MATCHING AND THE NCES CROSSWALK (Question 4a & 4b)

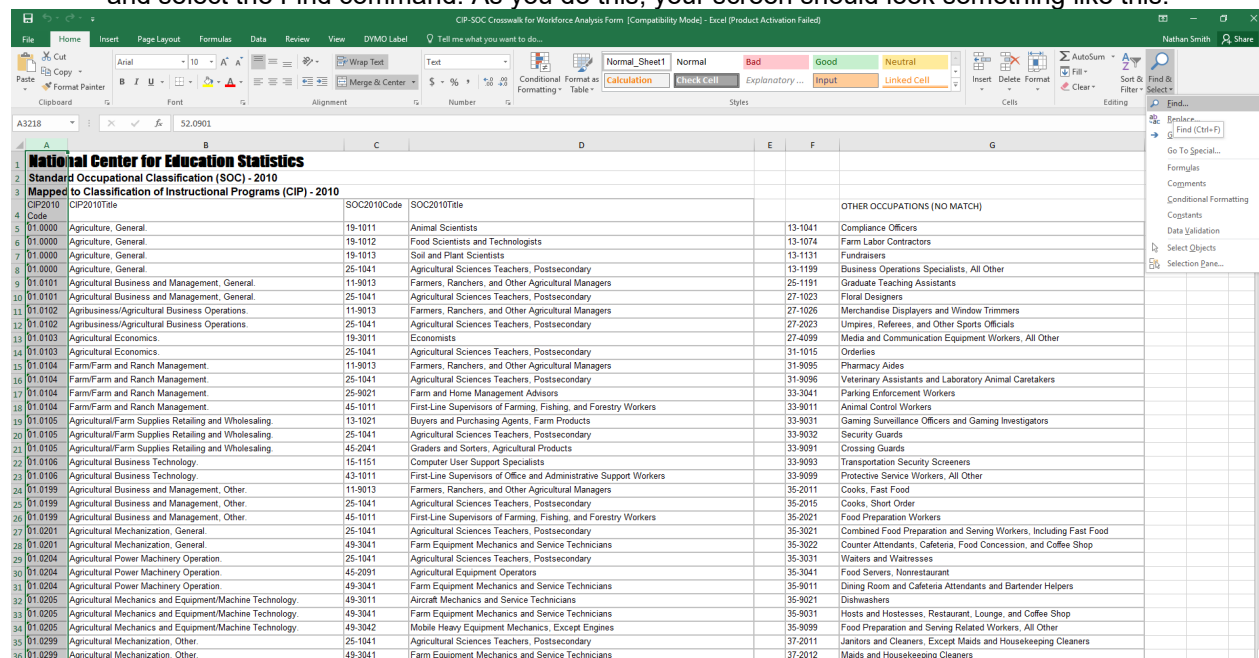
Labor market analysis for academic program requires the combination of diverse data sources. The National Center for Education Statistics (NCES) and the Bureau of Labor Statistics (BLS) developed a “CIP-SOC crosswalk” linking fields of study, classified by a well-established classification scheme called Classification of Instructional Programs (CIP), with occupations, classified by a well-established classification scheme called Standard Occupational Classifications (SOC). The CIP-SOC crosswalk is available [here](#), and guidelines on how to use the scheme are posted online [here](#).

In question 4a of the form, institutions are asked to copy and paste a list of occupations that match with their instructional programs, taken directly from the NCES CIP-SOC crosswalk, which can be downloaded here:

<https://static.ark.org/eeuploads/adhe/CIP-SOC Crosswalk for Workforce Analysis Form.xls>

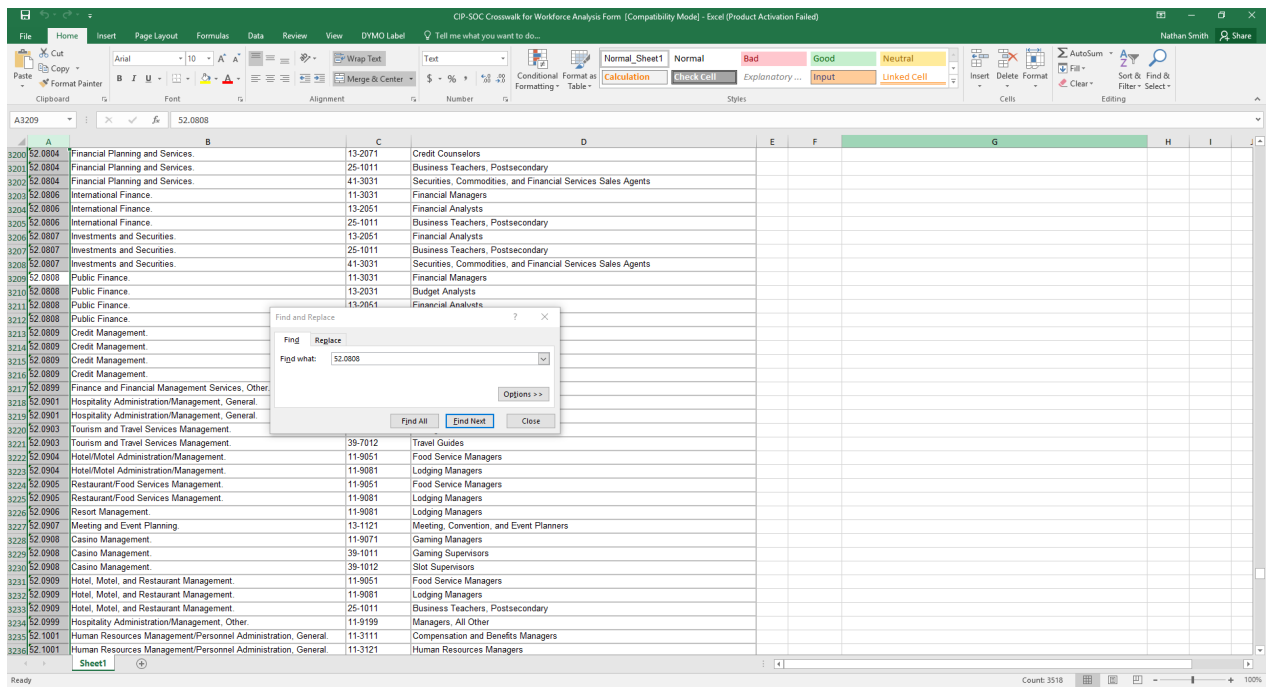
To use this file to answer question 4a:

1. Select Column A.
2. In the Home ribbon, Editing section of the toolbar, click Find & Select to get a drop-down menu, and select the Find command. As you do this, your screen should look something like this.



CIP2010 Code	CIP2010 Title	SOC2010 Code	SOC2010 Title			OTHER OCCUPATIONS (NO MATCH)
01-0000	Agriculture, General	19-1011	Animal Scientists		13-1041	Compliance Officers
01-0000	Agriculture, General	19-1012	Food Scientists and Technologists		13-1074	Farm Labor Contractors
01-0000	Agriculture, General	19-1013	Soil and Plant Scientists		13-1131	Fundraisers
01-0000	Agriculture, General	25-1041	Agricultural Sciences Teachers, Postsecondary		13-1199	Business Operations Specialists, All Other
01-0101	Agricultural Business and Management, General	11-9013	Farmers, Ranchers, and Other Agricultural Managers		25-1191	Graduate Teaching Assistants
01-0101	Agricultural Business and Management, General	25-1041	Agricultural Sciences Teachers, Postsecondary		27-1023	Floral Designers
01-0102	Agribusiness/Agricultural Business Operations	11-9013	Farmers, Ranchers, and Other Agricultural Managers		27-1026	Merchandise Displayers and Window Trimmers
01-0102	Agribusiness/Agricultural Business Operations	25-1041	Agricultural Sciences Teachers, Postsecondary		27-2023	Umpires, Referees, and Other Sports Officials
01-0103	Agricultural Economics	19-3011	Economists		27-4099	Media and Communication Equipment Workers, All Other
01-0103	Agricultural Economics	25-1041	Agricultural Sciences Teachers, Postsecondary		31-1015	Orderlies
01-0104	Farm/Farm and Ranch Management	11-9013	Farmers, Ranchers, and Other Agricultural Managers		31-9095	Pharmacy Aides
01-0104	Farm/Farm and Ranch Management	25-1041	Agricultural Sciences Teachers, Postsecondary		31-9096	Veterinary Assistants and Laboratory Animal Caretakers
01-0104	Farm/Farm and Ranch Management	25-9021	Farm and Home Management Advisors		33-3041	Parking Enforcement Workers
01-0104	Farm/Farm and Ranch Management	45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers		33-9011	Animal Control Workers
01-0105	Agricultural/Farm Supplies Retailing and Wholesaling	13-1021	Buyers and Purchasing Agents, Farm Products		33-9031	Gaming Surveillance Officers and Gaming Investigators
01-0105	Agricultural/Farm Supplies Retailing and Wholesaling	25-1041	Agricultural Sciences Teachers, Postsecondary		33-9032	Security Guards
01-0105	Agricultural/Farm Supplies Retailing and Wholesaling	45-2041	Graders and Sorters, Agricultural Products		33-9091	Crossing Guards
01-0106	Agricultural Business Technology	15-1151	Computer User Support Specialists		33-9093	Transportation Security Screeners
01-0106	Agricultural Business Technology	43-1011	First-Line Supervisors of Office and Administrative Support Workers		33-9099	Protective Service Workers, All Other
01-0109	Agricultural Business and Management, Other	11-9013	Farmers, Ranchers, and Other Agricultural Managers		35-2011	Cooks, Fast Food
01-0109	Agricultural Business and Management, Other	25-1041	Agricultural Sciences Teachers, Postsecondary		35-2015	Cooks, Short Order
01-0109	Agricultural Business and Management, Other	45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers		35-2021	Food Preparation Workers
01-0201	Agricultural Mechanization, General	25-1041	Agricultural Sciences Teachers, Postsecondary		35-3021	Combined Food Preparation and Serving Workers, Including Fast Food
01-0201	Agricultural Mechanization, General	49-3041	Farm Equipment Mechanics and Service Technicians		35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop
01-0204	Agricultural Power Machinery Operation	25-1041	Agricultural Sciences Teachers, Postsecondary		35-3031	Waiters and Waitresses
01-0204	Agricultural Power Machinery Operation	45-2091	Agricultural Equipment Operators		35-3041	Food Servers, Nonrestaurant
01-0204	Agricultural Power Machinery Operation	49-3041	Farm Equipment Mechanics and Service Technicians		35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers
01-0205	Agricultural Mechanics and Equipment/Machine Technology	49-3011	Aircraft Mechanics and Service Technicians		35-9021	Dishwashers
01-0205	Agricultural Mechanics and Equipment/Machine Technology	49-3041	Farm Equipment Mechanics and Service Technicians		35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop
01-0205	Agricultural Mechanics and Equipment/Machine Technology	49-3042	Mobile Heavy Equipment Mechanics, Except Engines		35-9099	Food Preparation and Serving Related Workers, All Other
01-0209	Agricultural Mechanization, Other	25-1041	Agricultural Sciences Teachers, Postsecondary		37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners
01-0209	Agricultural Mechanization, Other	49-3041	Farm Equipment Mechanics and Service Technicians		37-2012	Maids and Housekeeping Cleaners

3. In the Find and Replace dialog box, enter the CIP code that you're interested in, and click “Find Next.” Your screen should then look like this:



4. Since the CIP-SOC crosswalk file is already sorted by row, you can find all the rows corresponding to your CIP simply by starting from the first cell selected and then reading down in column A until you encounter a different CIP code.
5. Select all of these rows, columns A through D, this will form a table that can be pasted directly into the response field for question 4a.

52.0808	Public Finance.	11-3031	Financial Managers
52.0808	Public Finance.	13-2031	Budget Analysts
52.0808	Public Finance.	13-2051	Financial Analysts
52.0808	Public Finance.	25-1011	Business Teachers, Postsecondary

6. If desired, ask a faculty or staff member to sort the matched occupations from the CIP-SOC crosswalk by relevancy/importance, with the occupations that seem most likely to employ your graduates ranked first.
7. Missing occupations from the list should be addressed in question 4b.

Question 4b, is requesting information from your local staff/workforce experts at your institution on the applicability of the NCES list. We are aware that the NCES might be “globally” wrong—the CIP/SOC match may never have been very accurate, or may become obsolete as fields and occupations evolve—or “locally” wrong—the CIP/SOC match may be reasonably robust in general, but fail to capture the role your particular program plays in students’ career paths. Graduates of a particular program may be over or underqualified for some of the matched occupations. Also, there may be SOC codes not matched to your CIP by NCES for which, however, your program does help to prepare students, and which are likely to provide gainful employment for your graduates. Question 4b is the place to tell us about those as well.