

# **Bridget Z. Sheng**

Professor

Educational Leadership, School of Education

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## **EDUCATION**

**University of Missouri-Colombia**, Columbia, MO

PhD, Educational Psychology: Educational Measurement and Statistics, 2007

## **TEACHING EXPERIENCE**

**Western Illinois University**, Macomb, IL

**Professor**, 2018-Current; **Associate Professor**, 2013-2018; **Assistant Professor**, 2007-2013

Courses Taught: EDL675/EDL507/EDL510 Data for School Leaders

EDL508 Technology for School Leaders

EDL681 Research in Educational Administration

EDL701 Quantitative Research and Statistics

EDL715 Research in Schools and Communities

EDL725 Prospectus Development

EDL790 Doctoral Research and Dissertation

**University of Missouri-Columbia**, Columbia, MO

**Graduate Instructor**, 2004-07, **Teaching Assistant**, 2003-04

Courses Taught: ESCP 4170/7170 Introduction to Educational Statistics

Courses TAed: ESCP 4170/7170 Introduction to Educational Statistics,

ESCP 7610 Quantitative Methods in Educational Research

ESCP 8650 Multivariate Statistics

## **RESEARCH EXPERIENCE**

**Western Illinois University**, Macomb, IL

**Professor**, 2018-Current; **Associate Professor**, 2013-2018; **Assistant Professor**, 2007-2013

Advised doctoral students on dissertation research; Served on dissertation committee

Served as editor of *Spotlight on Research*

Provided research support for faculty on research design, data analysis and interpretation

Conducted workshops on research and statistical analysis

**University of Missouri-Columbia**, Columbia, MO

**Research Consultant in StatLab**, 2003-04, **Research Assistant**, 2002-04

Provided research consultation for graduate students and faculty within the College of Education

Assisted with statistical package (SPSS, SAS) usage

Performed analyses of departmental level data; Edited book manuscripts, including citations, bibliographies, and indexes

## PUBLICATIONS

- Mouser, D. M., Sheng, Z., & Thoron, A. C. (2019). Are Agriculture Students More Career Ready? A Comparative Analysis of Illinois Juniors. *Journal of Agricultural Education*, 60(2), 15-27.
- Sheng, Z., Wolff, L., Kilmer, L., & Yager, S. (2017). School Administration Manager: Redefining the principal's role as an instructional leader. *Journal of School Leadership*, 27, 119-145.
- Mouser, D. M., Sheng, Z., Thoron, A. C., Baker, A., & Bacon, K. (2017). A comparative analysis of college readiness assessment results of Illinois agriculture students. *Journal of Agricultural Education*, 58(4), 110-125.
- Oakley, D., Watkins, S., & Sheng, B. (2017). Illinois public school superintendents: Influencing state-level education legislation and policy-making in Illinois. *Journal of Scholarship and Practice*, 14(1), 4-18.
- McArthur, L. H., Monahan, P. L., Sheng, Z., & Holbert, D. (2016). Snacking Patterns and Snacking Correlates in Third- and Fourth-Year Nursing and Dietetics Students: An Exploratory Study from the Midwestern United States. *Journal of Allied Health*, 45(4), 251-258.
- Schlag, P. A., Yoder, D., & Sheng, Z. (2015). Words matter: A semantic differential study of recreation, leisure, play, activity and sport. *SCHOLE: A Journal of Leisure Studies and Recreation Education*, 30 (1), 25-38.
- Othman, L. B., Fayez, M., & Sheng, B. (2014). Speed and accuracy with which sixth graders read individual Arabic words with different degrees of diacritical presentations resembling textbook pragmatics. *Global Education Journal*, 2014(4), 103-110.
- Kilmer, L., Sheng, B., Wolff, L., & Yager, S. (2014). The implementation of School Administration Managers (SAMs) in the Davenport Community School District. National SAM Innovation Project, Documents section.
- Noppe, R., Webb, C., Yager, S., & Sheng, Z. (2013). Decision-making and problem-solving practices of superintendents confronted with district dilemmas. *International Journal of Educational Leadership Preparation*, 8(1).
- Sheng, Z., & Sheng, Y. (2012). Invariance of Equating Functions. *JSM Proceedings*, social science section. Alexandria, VA: American Statistical Association.
- Sheng, Y., & Sheng, Z. (2012). Is coefficient alpha robust to non-normal data? *Frontiers in Psychology*, 3(34), 1-13.
- Sheng, Z., Sheng, Y., & Anderson, C. J. (2011). Dropping out of school among ELL students: Implication to schools and teacher education. *The Clearing House*, 84 (3), 98-102.

- Sheng, Z. (2010). Effect of problem type and problem difficulty on problem solving in face-to-face and computer-mediated environments. In C. D. Maddux (Ed.), *Research Highlights in Technology and Teacher Education 2010* (pp. 343-351). Chesapeake, VA: AACE.
- Anderson, C., Sheng, B., & Sweet, D. (2010). Special education teacher preparation: Online-document collaboration. *Proceedings of Society for Information Technology & Teacher Education International Conference*. San Diego, CA: Association for the Advancement of Computing in Education (AACE).
- Sheng, Y., & Sheng, Z. (2009). Item selection with biased-coin up-and-down designs. In D. J. Weiss (Ed.), *Proceedings of the 2009 GMAC Conference on Computerized Adaptive Testing*. Twin cities, MN: University of Minnesota.
- Watkins, S. G., Sheng, Z., & VanTuyle, V. (2009). Cultivating highly effective teachers: Lessons Learned from a Teacher Leader graduate program. *Phi Delta Kappa Research Bulletin*.
- Watkins, S. G., & Sheng, Z. (2008). Assessing teachers' professional development needs. *Phi Delta Kappa Research Bulletin*, 2, 11-19.
- Watkins, S. G., & Sheng, Z. (2008). Are state and national standards leaving the advanced learners behind? The crisis ahead. *Forum on Public Policy*, 2, 1-13.
- Sheng, Z. (2007). Integrativity and instrumentality in ESL writing acquisition. *National Forum of Applied Educational Research Journal*, 21, 91-106.

## REPORTS

- Sheng, Z., & Wolff. (2018). *Evaluation of Illinois Math and Science Partnership Initiative 2017-2018 Final Report*. Report submitted to Illinois State Board of Education.
- Sheng, Z., & Wolff. (2017). *Evaluation of Illinois Math and Science Partnership Initiative 2017-2018 Report*. Report submitted to Illinois State Board of Education.
- Segersten, M., Sheng, Z., & Wolff. (2017). *Illinois Math and Science Partnership Initiative Proposal*. Submitted to Illinois State Board of Education.
- Kilmer, L., Sheng, B., Wolff, L., & Yager, S. (2014). *SAM Survey: Individual School Results*. Report submitted to Davenport Community School District.
- Webb, C., Sheng, B., Yager, S., Noppe, R., & Closen, J. (2012). *Rising Star Implementation Report*. Macomb, Illinois: Western Illinois University, Department of Educational Leadership.
- Webb, C., Noppe, R., Closen, J., Yager, S., House, J., Sheng, B., & McCaw, D. (2012). *Study of the Illinois Statewide System of Support*. Final report submitted to Illinois State Board of Education.
- Noppe, R., Webb, C., Closen, J., Yager, S., House, J., Sheng, B. (2011). *Program Evaluation: Illinois RESPRO and Illinois Rising Star*. Proposal submitted to Illinois State Board of Education.

## PRESENTATIONS

- Sheng, Z., & Watkins, S. G. (2018, April). *Schools as Learning Organizations: Examining the Learning Dimensions in Elementary and High Schools*. Presented at the annual meeting of American Educational Research Association, New York City, NY.
- Watkins, S. G., & Sheng, Z. (2018, April). *Examining Schools as Learning Organizations and School Performance*. Paper presented at the annual meeting of American Educational Research Association, New York City, NY.
- Sullivan-Viniard, P. E., Watkins, S. G., & Sheng, Z. (2018, April). *Are you promoting or hindering equity in high-ability programs?* Presented at the annual meeting of American Educational Research Association, New York City, NY.
- Oakley, D., Watkins, S., Sheng, Z. (2016, April). *Illinois public school superintendents: Influencing the state level education legislation and policy-making in Illinois*. Paper presented at the annual meeting of American Educational Research Association, Washington, DC.
- Sheng, B., & Watkins, S. (March, 2016). *School as Learning Organizations*. Presented at the IASB Western Division Spring dinner meeting, Colchester, IL.
- Kilmer, L., Sheng, Z., Wolff, L., & Yager, S. (2015, April). *School Administration Manager: Redefining the Principal's role as an Instructional Leader*. Paper presented at the annual meeting of American Educational Research Association, Chicago, IL.
- Sheng, Z., Watkins, S., & Yoon, S. W. (2014, April). *Measuring Schools as Learning Organizations*. Paper presented at the annual meeting of American Educational Research Association, Philadelphia, PA.
- Webb, C., Sheng, Z., Yager, S. & Noppe, R. (2014, April). *Leadership Dilemmas and Superintendents' Problem-Solving Approach in Decision Making*. Paper presented at the annual meeting of American Educational Research Association, Philadelphia, PA.
- Kilmer, L., Sheng, B., Wolff, L., & Yager, S. (2014, February). *SAMS: Helping the principal making time for instructional leadership*. Paper presented at the annual meeting of American Association of School Superintendents, Nashville, TN.
- Kilmer, L., Sheng, B., Wolff, L., & Yager, S. (2014). *The implementation of School Administration Managers (SAMs) in the Davenport Community School District*. Presented at the joint annual meeting of IASB/IASA/IASBO, Chicago, IL.
- Kilmer, L., Yager, S., Wolff, L., & Sheng, B. (2014). *The school administrator Assistant initiative Davenport Schools: A mixed-methods study*. Paper presented at the 2014 Quad Cities Research and Scholarship Fall Symposium, Moline, IL.
- Sheng, Z., & Watkins, S. (2013, April). *Rural superintendents: Adhere to National Staff Development Standards to catapult student achievement*. Paper presented at the annual meeting of American Educational Research Association, San Francisco, CA.
- Sheng, Z. & Sheng, Y. (2012, July). *Corrections for measurement error*. Poster presented at the annual meeting of Joint Statistical Meetings, San Diego, CA.

- Sheng, Z. & Sheng, Y. (2012, July). *A Monte Carlo evaluation of the robustness of coefficient alpha to non-normality*. Poster presented at the annual meeting of Joint Statistical Meetings, San Diego, CA.
- Sheng, Z. (2010, March). *Effect of problem type and problem difficulty on problem solving in face-to-face and computer-mediated environments*. Paper presented at the annual meeting of Society for Information Technology and Teacher Education, San Diego, CA.
- Anderson, C. J., Sheng, Z., & Sweet, D. (2010, March). *Special education teacher preparation: online-document collaboration*. Paper presented at the annual meeting of Society for Information Technology and Teacher Education, San Diego, CA.
- Watkins, S. G., Sheng, Z., & VanTuyle, V. (2009, October). *Cultivating highly effective teachers: Lessons Learned from a Teacher Leader graduate program*. Paper presented at the annual meeting of Phi Delta Kappa, Indianapolis, IN.
- Sheng, Z., & Watkins, S. G. (2009, April). *Evaluating professional development practices in rural schools*. Roundtable presented at the annual meeting of American Educational Research Association, San Diego, CA.
- Watkins, S. G., & Sheng, Z. (2009, April). *Are we leaving the advanced learners behind*. Poster presented at the annual meeting of American Educational Research Association, San Diego, CA.
- Watkins, S. G., & Sheng, Z. (2008, November). *The leadership crisis ahead: Advanced learners left behind*. Invited panel at the joint annual meeting of Illinois Association of School Boards, Illinois Association of School Administrators, & Illinois Association of School Business Officials, Chicago, IL.
- Sheng, Z., & Osterlind, S. (2008, August). *Examinee subpopulation sizes on population invariance of equating functions*. Poster presented at the annual meeting of American Psychological Association, Boston, MA.
- Sheng, Y., & Sheng, Z. (2008, August). *Ability estimation in CAT using up-and-down designs*. Poster presented at the annual meeting of American Psychological Association, Boston, MA.
- Watkins, S. G., & Sheng, Z. (2007, November). *Are we leaving the "exceeds kids" (high ability learners) behind? The data speaks*. Invited panel at the joint annual meeting of Illinois Association of School Boards, Illinois Association of School Administrators, & Illinois Association of School Business Officials, Chicago, IL.
- Sheng, Z. (2007, April). *Integrativity and Instrumentality in ESL writing acquisition*. Paper presented at the annual meeting of American Educational Research Association, Chicago, IL.
- Sheng, Y., & Sheng, Z. (2007, April). *Bayesian IRT model comparisons for assessing dimensionality*. Poster presented at the annual meeting of American Educational Research Association, Chicago, IL.

- Sheng, Z., Alspaugh, J., & Sheng, Y. (2006, April). *Influence of elementary school achievement, family background, and enrollment size on high school dropout rates*. Paper presented at the annual meeting of American Educational Research Association, San Francisco, CA.
- Sheng, Z., Alspaugh, J., & Sheng, Y. (2005, April). *The influence of school transitions and school characteristics on changes in dropout rates*. Paper presented at the annual meeting of American Educational Research Association, Montreal, Quebec.
- Sheng, Z., & Sheng, Y. (2005, February). *The effect of math knowledge on understanding persuasive language*. Paper presented at the annual meeting of Southwest Educational Research Association, New Orleans, LA.
- Sheng, Z., & Sheng, Y. (2004, June). *Motivational constructs in second language writing acquisition*. Poster presented at the annual meeting of Missouri Psychological Association, Columbia, MO.
- Sheng, Y., & Sheng, Z. (2003, October). *Dimensionality structure of College Base*. Paper presented at the annual meeting of Mid-Western Educational Research Association, Columbus, OH.

## **PROFESSIONAL SERVICES**

### **Workshops**

- Myanmar Educational Institute, Western Illinois University, 2014-2019
- Schools as Learning Organizations, Illinois Association of School Boards (IASB) Western Division, 2016
- Principal Evaluation, Rock Island County Regional Office of Education (ROE) #49, 2012
- Principal Evaluation, Regional Office of Education (ROE) #33, 2012
- NCSD Staff Development research, Regional Office of Education (ROE) #26, 2008

### **Program Evaluation**

- Illinois Math and Science Partnership, Harvard CUSD 50, 2016-2018
- Rising Star Focus Groups, Illinois State Board of Education (ISBE) and American Institute of Research (AIR), 2014
- School Administration Managers, Davenport Community School District, 2013-2014
- Illinois RESPRO and Illinois Rising Star, Illinois State Board of Education (ISBE), 2011-2012

### **Grant Review**

- *The Impact of Forgiveness Education on Adolescent Victimization and Perpetration* submitted to National Institute of Justice (NIJ-2014-3745), 2014
- *Summer Enrichment Program Evaluation* submitted to The Robert Bowne Foundation, 2014
- *Early Intervention Through Technology Tools: The Birth to Three TechTools Phase 3 Development Project* submitted to Department of Education (CFDA 84.327A), 2009

### **Book Review**

- SAGE Textbook Review: Practical Meta-Analysis by M. Lipsey and D. Wilson, 2016
- Routledge Textbook Review: Statistics in Plain English by T. Urdan, 2014-2015
- SAGE book proposal: Mining Information in the Internet Era of New Data, 2012

## **MEMBERSHIP AND COMMITTEES**

American Educational Research Association (AREA)  
American Educational Research Association (AERA)  
American Psychological Association (APA)  
American Statistical Association (ASA)  
National Council on Measurement in Education (NCME)  
National Council of Professors of Educational Administration (NCPEA)  
National Rural Education Association (NREA)  
NREA Research and Higher Education Committee, 2010-2012  
NREA Diversity Committee, 2011-2012  
University Technology Advisory Group, 2014-Current  
Council of International Education, 2019-Current  
Council of Instructional Technology, 2016-2018  
Faculty Council, Member, 2009-2013  
COEHS Awards Committee, 2015-2017  
COEHS Scholarship Committee, 2011-2013  
COEHS Travel Committee, 2017-2019  
COEHS Technology Committee, 2015-2016, 2018-2019  
Advisory Committee, 2016-2018  
Dissertation Committee, Chair or Member, 2007-Current  
Editor of *Spotlight on Research*, 2009-Current  
Search Committee, Chair or Member, 2007-08, 2009-10, 2011-12  
Robert Hall Dissertation Award Committee, 2009-2013  
Graduate Committee, 2007-Current  
Curriculum Committee, 2007-Current

## **FELLOWSHIP AND AWARDS**

Professional Achievement Award, Western Illinois University, 2010-2012, 2014, 2016, 2018  
Provost Faculty Travel Award, Western Illinois University, 2013, 2014, 2018  
Graduate Professional Council Travel Award, University of Missouri-Columbia, 2007  
High Flyer Teaching Award, University of Missouri-Columbia, 2006  
Walter Scott Monroe Research Fellowship, University of Missouri-Columbia, 2006, 2007  
ESCP Travel Scholarship, University of Missouri-Columbia, 2006, 2007  
Graduate School Fellowship, University of Missouri-Columbia, 2003  
Teaching Assistantship, University of Missouri-Columbia, 2003-2007  
Research Assistantship, University of Missouri-Columbia, 2002-2004