

Ze Wang

Associate Professor, Statistics, Measurement, and Evaluation in Education
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PROFESSIONAL EXPERIENCE

2014- present Associate Professor, Department of Educational, School and Counseling Psychology, University of Missouri
2008 -2014 Assistant Professor, Department of Educational, School and Counseling Psychology, University of Missouri

EDUCATION

| | | | |
|------------|---|---|------|
| PhD | University of Missouri | Educational Psychology (Statistics & Measurement) | 2008 |
| MA | University of Missouri | Statistics | 2008 |
| MA | University of Missouri | Educational Psychology (Statistics & Measurement) | 2005 |
| BE | University of Science and Technology of China | Engineering | 2002 |
| BS | University of Science and Technology of China | English and Science | 2002 |

PUBLICATIONS

Peer-Reviewed Journal Articles (total: 39)

1. Kim, M., & **Wang, Z.** (in press). Factor structure of the PANAS with Bayesian structural equation modeling in a Chinese sample. *Evaluation and The Health Professions*.
2. Carlisle, G. K., Johnson, R. A., Koch, C. S., Lyons, L. A., **Wang, Z.**, Bibbo, J., & Cheak-Zamora, N. (2021). Exploratory study of fecal cortisol, weight, and behavior as measures of stress and welfare in shelter cats during assimilation into families of children with autism spectrum disorder. *Frontiers in Veterinary Science*, 8(942).
<https://doi.org/10.3389/fvets.2021.643803>
3. Parkin, J. R., & **Wang, Z.** (2021). Confirmatory factor analysis of the WIAT-III in a referral sample. *Psychology in the Schools*, 58(5), 837-852.
<https://doi.org/https://doi.org/10.1002/pits.22474>
4. Carlisle, G. K., Johnson, R. A., **Wang, Z.**, Bibbo, J., Cheak-Zamora, N., & Lyons, L. A. (2021). Exploratory study of cat adoption in families of children with autism: Impact on children's social skills and anxiety. *Journal of Pediatric Nursing*, 58, 28-35.
<https://doi.org/10.1016/j.pedn.2020.11.011>
5. **Wang, Z.** (2020). When large-scale assessments meet data science: The big-fish-little-pond effect in fourth- and eighth-grade mathematics across nations. *Frontiers in Psychology*, 11(2427). <https://doi.org/10.3389/fpsyg.2020.579545>
6. Carlisle, G. K., Johnson, R. A., **Wang, Z.**, Brosi, T. C., Rife, E. M., & Hutchison, A. (2020). Exploring human-companion animal interaction in families of children with autism. *Journal of Autism and Developmental Disorders*, 50(8), 2793-2805.
<https://doi.org/10.1007/s10803-020-04390-x>
7. Mendoza, P., Dayigoul, S., **Wang, Z.**, & Zhou, E. (2020). Faculty norms and

- university/industry linkages in STEMM. *Studies in Higher Education*, 45(7), 1474-1487. doi: 10.1080/03075079.2018.1541451
8. Rodgers, S., **Wang, Z.**, & Schultz, J. C. (2020). A scale to measure science communication training effectiveness. *Science Communication*, 42(1), 90–111. <https://doi.org/10.1177/1075547020903057>
 9. Parkin, J. R., Frisby, C. L., & **Wang, Z.** (2020). Operationalizing the simple view of writing with the Wechsler Individual Achievement Test, 3rd Edition. *Contemporary School Psychology*, 24, 68-79. <https://doi.org/10.1007/s40688-019-00246-z>
 10. **Wang, Z.**, Zhang, T., Liu, J., & Yonke, S. (2019). Co-teaching Chinese in middle schools and high schools. *Chinese as a Second Language*, 54(1), 1-30. Doi: <https://doi.org/10.1075/csl.17027.wan>
 11. Park, C. J., Rottinghaus, P. J., **Wang, Z.**, Falk, N., Zhang, T., & Ko, S.-J. (2019). Measurement invariance of the Career Futures Inventory-Revised across general and client samples. *Journal of Career Assessment*, 27(4), 711-725. doi: <https://doi.org/10.1177/1069072718816514>
 12. Burns, M. K., Naughton, M. R., Preast, J. L., **Wang, Z.**, Gordon, R. L., Robb, V., et al. (2018). Factors of Professional Learning Community Implementation and Effect on Student Achievement. *Journal of Educational and Psychological Consultation*, 28(4), 394-412. doi: 10.1080/10474412.2017.1385396
 13. Frisby, C., & **Wang, Z.** (2018). An evaluation of the word triad method for monitoring spelling progress. *Journal of Applied School Psychology*, 34(2), 101-133. doi: 10.1080/15377903.2017.1381660
 14. Bordon, J., & **Wang, Z.** (2018). Acculturation, enculturation, and ethnic identity: Comparing American-raised and foreign-raised Asians in the U.S. *Journal of Asia Pacific Counseling*, 8(2), 37-56. doi: 10.18401.2018.8.2.1
 15. Rodgers, S, **Wang, Z.**, Maras, M., Burgoyne, S., Balakrishnan, B., Stemmler, J., & Schultz, J. C. (2018). Decoding Science: Development and evaluation of a science communication training program using a triangulated framework. *Science Communication*, 40(1), 3-32. doi: 10.1177/1075547017747285
 16. **Wang, Z.**, & Bergin, D. (2017). Perceived relative standing and the big-fish-little-pond effect in 59 countries and regions: Analysis of TIMSS 2011 data. *Learning and Individual Differences*, 57, 141-156. doi: 10.1016/j.lindif.2017.04.003
 17. **Wang, Z.** (2017). Large-Scale Educational Assessments. *International Journal of Quantitative Research in Education*, 4(1/2), 1-2.
 18. Mendoza, P., Zhou, E., Abdelmalek, N., & **Wang, Z.** (2017). Higher education surveys from United States' National Center for Education Statistics. *International Journal of Quantitative Research in Education*, 4(1/2), 3-30. doi: 10.1504/IJQRE.2017.10007531
 19. Whitney, S. D., Prewett, S., **Wang, Z.**, & Chen, H. (2017). Father's importance in adolescents' academic achievement. *International Journal of Child, Youth and Family Studies*, 8(3-4), 101-126. doi: <http://dx.doi.org/10.18357/ijcyfs83/4201718073>
 20. Frisby, C. L., & **Wang, Z.** (2016). The g factor and cognitive test session behavior: Using a latent variable approach in examining measurement invariance across age groups on the WJ III. *Journal of Psychoeducational Assessment*, 34(6), 524-535. doi: 10.1177/0734282915621440

21. Rose, C. A., Stormont, M., **Wang, Z.**, Simpson, C. G., Preat, J. L. & Green, A. L. (2015). Bullying and students with disabilities: Examination of disability status and educational placement. *School Psychology Review*, 44(4), 425-444. doi: <https://doi.org/10.17105/spr-15-0080.1>
22. **Wang, Z.** (2015). Examining big-fish-little-pond-effects across 49 countries: a multilevel latent variable modelling approach. *Educational Psychology*, 35(2), 228-251. doi: 10.1080/01443410.2013.827155
23. Akiba, M., **Wang, Z.**, & Liang, G. (2015). Organizational resources for professional development: A statewide longitudinal survey of middle school mathematics teachers. *Journal of School Leadership*, 25(2), 252-285. doi: <https://doi.org/10.1177/105268461502500203>
24. Brophy, C., Maras, M. A., & **Wang, Z.** (2015). Preparing for school crises: Administrator perceptions of supports for teachers. *Advances in School Mental Health Promotion*, 8(2), 71-86. doi: 10.1080/1754730X.2015.1009131
25. **Wang, Z.**, Rohrer, D., Chuang, C.-C., Fujiki, M., Herman, K., & Reinke, W. (2015). Five methods to score the teacher observation of classroom adaptation checklist and to examine group differences. *The Journal of Experimental Education*, 83(1), 24-50. doi: 10.1080/00220973.2013.876230
26. **Wang, Z.**, Bergin, C., & Bergin, D. A. (2014). Measuring engagement in fourth to twelfth grade classrooms: The Classroom Engagement Inventory. *School Psychology Quarterly*, 29(4), 517-535. doi: 10.1037/spq0000050
27. Reinke, W. M., Stormont, M., Herman, K. C., **Wang, Z.**, Newcomer, L., & King, K. (2014). Use of coaching and behavior support planning for students with disruptive behavior within a universal classroom management program. *Journal of Emotional and Behavioral Disorders*, 22(2), 74-82. doi: 10.1177/1063426613519820
28. Nguyen V. H., **Wang, Z.**, & Okamura, S. M. (2014). Osteoporosis health beliefs of women with increased risk of the female athlete triad. *Journal of Osteoporosis*, 2014, 1-5. doi: 10.1155/2014/67630
29. **Wang, Z.** & Su, I. (2013). Longitudinal factor structure of general self-concept and locus of control among high school students. *Journal of Psychoeducational Assessment*, 31(6), 554-565. doi: 10.1177/0734282913481651
30. **Wang, Z.**, Hu, X. Y., & Guo, Y. Y. (2013). Goal contents and goal contexts: Experiments with Chinese students. *The Journal of Experimental Education*, 81(1), 105-122. doi: 10.1080/00220973.2012.678407
31. Nguyen, V. H., & **Wang, Z.** (2012). Osteoporosis knowledge of students in relevant healthcare academic programs. *Journal of Osteoporosis*, 2012, 1-4. doi: 10.1155/2012/383412
32. Nguyen V. H., **Wang, Z.**, & Waigandt, A. C. (2012). The development of an osteoporosis prevention education intervention: Its effectiveness, conclusions, and recommendations. *American Journal of Health Education*, 43(4), 209-217.
33. **Wang, Z.**, Osterlind, S., & Bergin, D. (2012). Building mathematics achievement models in four countries using TIMSS 2003. *International Journal of Science and Mathematics Education*, 10(5), 1215-1242. doi: 10.1007/s10763-011-9328-6

34. Arce, A. J., & **Wang, Z.** (2012). Applying Rasch model and generalizability theory to study modified-Angoff cut scores. *International Journal of Testing*, *12*(1), 44-60. doi: 10.1080/15305058.2011.614366
35. Hinton, P. S., Rogers, R. S., Thyfault, J. P., Dawson, A. W., & **Wang, Z.** (2012). Reply to Scott, Sale, Greeves, and Fraser. *Journal of Applied Physiology*, *112*(2), 330. doi: 10.1152/jappphysiol.01339.2011
36. Rogers, R. S., Dawson, A. W., **Wang, Z.**, Thyfault, J. P., & Hinton, P. S. (2011). Acute response of plasma markers of bone turnover to a single bout of resistance training or plyometrics. *Journal of Applied Physiology*, *111*(5), 1353-1360. doi: 10.1152/jappphysiol.00333.2011
37. Wang, Q., **Wang, Z.**, & Osterlind, S. J. (2011). Modeling the effects of home environment, reading self-concept and attitude on text comprehension between British and Chinese students. *New Waves – Educational Research & Development*, *14*(1), 22-33.
38. Thomas, T. R., Warner, S. O., Dellsperger, K. C., Hinton, P. S., Whaley-Connell, A. T., Rector, R. S., Liu, Y., Linden, M. A., Chockalingam, A., Thyfault, J. P., Huyette, D. R., **Wang, Z.**, & Cox, R. H. (2010). Exercise and the metabolic syndrome with weight regain. *Journal of Applied Physiology*, *109*, 3-10. doi: 10.1152/jappphysiol.01361.2009
39. **Wang, Z.** & Chen, J. (2004). CAT: A case study of GRE. *CELEA Journal*, *27*(1), 12-17.

Book Chapters (total: 6)

1. **Wang, Z.**, & Osterlind, S. J. (2018). Statistical modeling in educational research. In C. Secolsky & D. B. Denison (Eds.), *Handbook on measurement, assessment, and evaluation in higher education* (2nd ed., pp. 429-439). New York, NY: Routledge.
2. Osterlind, S. J., & **Wang, Z.** (2018). Item response theory in measurement, assessment, and evaluation for higher education. In C. Secolsky & D. B. Denison (Eds.), *Handbook on measurement, assessment, and evaluation in higher education* (2nd ed., pp. 191-200). New York, NY: Routledge.
3. **Wang, Z.**, & Guo, Y. Y. (2017). Deriving a structural model for the multidimensional self-concept construct: A case of middle school students in mainland China. In M. Williams (Ed.), *Self-concept: Perceptions, cultural influences and gender differences* (pp. 77-106). Hauppauge, NY: Nova Publishers.
4. **Wang, Z.**, & Osterlind, S. J. (2013). Classical test theory. In T. Teo (Ed.), *Handbook of quantitative methods for educational research* (pp. 31-44). Rotterdam, The Netherlands: Sense Publishers.
5. Osterlind, S. J., & **Wang, Z.** (2012). Item response theory in measurement, assessment and evaluation for higher education. In C. Secolsky & D. B. Denison (Eds.), *Handbook on measurement, assessment, and evaluation in higher education* (pp. 150-160). New York, NY: Routledge.
6. Osterlind, S. J., & **Wang, Z.** (2012). Statistical modeling in measurement, assessment and evaluation for higher education. In C. Secolsky & D. B. Denison (Eds.), *Handbook on measurement, assessment, and evaluation in higher education* (pp. 208-215). New York, NY: Routledge.

Books (total: 2)

Wang, Z., Frisby, C. L., & Waigandt, A. (2014). *An introduction to statistical reasoning in quantitative research* (4th ed.). Kearney, NE: Morris.

Waigandt, A., & **Wang, Z.** (2010). *An introduction to statistical reasoning in quantitative research* (3rd ed.). Kearney, NE: Morris.

Technical and Evaluation Reports (total: 9)

Wang, Z. (2021). *Five-Year Program Review of Department of Applied Statistics and Research Methods at University of North Colorado*.

Wang, Z. (2018). *Evaluation of University of Missouri's Instruction and Course Evaluation (Supplement)*. Columbia, MO: University of Missouri, Assessment Resource Center.

Wang, Z. & Hampton, N. J. (2018). *Missouri prediabetes media campaign evaluation (2nd round)*. Columbia, MO: University of Missouri, Health Communication Research Center.

Wang, Z. (2017). *Co-Teaching Chinese Classes: Collaboration between University of Missouri Confucius Institute and Columbia Public Schools*. Columbia, MO: University of Missouri, Confucius Institute.

Wang, Z. (2017). 合作教学中文课程：密苏里大学孔子学院和哥伦比亚市公立学区之间的合作。 Columbia, MO: University of Missouri, Confucius Institute.

Wang, Z., Tsai, C. L., & McFarling, P. (2017). *Evaluation of University of Missouri's Instruction and Course Evaluation*. Columbia, MO: University of Missouri, Assessment Resource Center.

Wang, Z. & Hampton, N. J. (2017). *Missouri prediabetes media campaign evaluation*. Columbia, MO: University of Missouri, Health Communication Research Center.

Osterlind, S. J., Sheng, Y., Beaujean, A. **Wang, Z.,** Nagel, T., & Juve, T. (2008). *College BASE technical manual*. Columbia, MO: University of Missouri, Assessment Resource Center.

Arce-Ferrer, A., Xue, Q., & **Wang, Z.** (2007). *Technical report of the Spring 2007 administration of Alabama Reading and Mathematics Test (ARMT) for grades 3 to 8*. San Antonio, TX: Harcourt Assessment, Inc.

PRESENTATIONS

Invited Talks, Workshops and Guest Lectures (total: 19)

Invited speaker at the IV International Congress Students' Engagement in School, University Castilla la Mancha, Cuenca, Spain, July 2022

Bringing Data Science and Data Mining to Large-Scale Assessments in Education. Guest lecture, Capstone Course for Undergraduate Students, Statistics Department, University of Missouri, April 15, 2021

Analysis of Large-Scale Assessments: From Statistical Modeling to Data Mining. Quantitative Psychology Colloquium Series, University of Missouri, March 12, 2021

Statistical Analyses Using Large Databases, College of Education Research Alliance Series, University of Missouri, January 26, 2021

Large-Scale Assessment Data in Education, Invited talk at 10th Annual ESCP Conference, University of Missouri, April 26, 2019

Structural Equation Modeling in Personality Psychology Research, 2nd Training Conference for Personality Psychology Teachers in Higher Education of China, Nanjing Normal University,

June 25, 2018.

- An Evaluation Research Project: Evaluation of MU's Instruction and Course Evaluation (ICE) Forms, Quantitative Psychology Colloquium Series, University of Missouri, April 20, 2018
- Measuring a Multidimensional Construct: Different Approaches to Construct Operationalization, Biostatistics Colloquium Series, University of Missouri, February 29, 2016
- Statistical Modeling in Educational Research, Central China Normal University, December 27, 2015
- Structural Equation Modeling with Mplus, College of Education, University of Missouri, June 18, 2015
- Structural Equation Modeling with Mplus, Central China Normal University, Wuhan, China. June 16-20, 2014
- Development of Classroom Engagement Inventory (collaborative work with Christi Bergin and David Bergin). Central China Normal University, Wuhan, China. June 12, 2014
- Big-Fish-Little-Pond effects in 49 countries: An illustration of using multiple software packages for large-scale cross-national substantive research. Central China Normal University, Wuhan, China. June 10, 2014
- Structural Equation Modeling with Amos, Central China Normal University, Wuhan, China. June 3-7, 2013
- Working with SPSS. College of Education Lunch and Learn Workshop Series, University of Missouri, Columbia, MO, March 30, 2013
- Model-based imputation for categorical variables and related procedures within structural equation modeling. School of Psychology, Central China Normal University, Wuhan, China. June 9, 2011.
- Assessing measurement invariance of complex data with presence of ordinal variables. School of Psychology, Central China Normal University, Wuhan, China. June 10, 2011.
- Using HLM to build achievement models. School of Psychology, Central China Normal University, Wuhan, China. June 14, 2011.
- Assessing invariance of motivation in learning mathematics and science between Chinese and US students. School of Psychology, Beijing Normal University, Beijing, China, May 31, 2010.

Conference Presentations and Proceedings (total: 77)

- Otten, S., Ellis, R. L., **Wang, Z.**, & de Araujo, Z. (2021). Comparing motivations for flipped instruction to data on flipped implementations in algebra. In D. Olanoff, K. Johnson, & S. Spitzer (Eds.), *Proceedings of the 43rd meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1554-1558). Philadelphia, PA: PME-NA.
- Wang, Z.** (2021, September). *Prediction of achievement using machine learning methods*. Poster presented at the University of Missouri College of Education of Human Development Research Day, Columbia, MO.
- Kim, K., & **Wang, Z.** (2021, September). *Bayesian estimation with different ICCs for multilevel SEM: A simulation study*. Poster presented at the University of Missouri College of Education of Human Development Research Day, Columbia, MO.
- McLean, D., Stichter, J., Reinke, W., **Wang, Z.**, Nowell, K. , & Kanne, S. (2021, March). *Predictors of presence and severity of aggression and self-injurious behavior exhibited by*

- children with autism spectrum disorder*. Poster presented at the 2021 Association for Behavior Analysis International Annual Autism Conference, online.
- Kim, M., & **Wang, Z.** (2019, August). *A confirmatory factor analysis examination of the PANAS using Bayesian structural equation modeling*. Paper presented at the 2019 American Psychological Association Convention, Chicago, IL.
- Wang, Z.** (2019, April). *Academic mindsets, engagement, and academic performance of 4th-graders' reading, mathematics, and science*. Paper presented at the annual meeting of the National Council on Measurement in Education, Toronto, Canada.
- Kim, M., & **Wang, Z.** (2019, April). *Examining wording effects on a self-concept scale from TIMSS 2015*. Roundtable presentation at the annual meeting of the American Educational Research Association, Toronto, Canada.
- Wang, Z.**, & Tsai, C. (2019, January). *Evaluation of University of Missouri's Instruction and Course Evaluation (MU's ICE)*. Proceedings of the 17th annual Hawaii International Conference on Education, Honolulu, HI.
- Wang, Z.**, & Frisby, C. L. (2018, October). *Differences between ethnic minority and white children in test behavior ratings of the Stanford-Binet Intelligence Test-Fifth Edition*. Poster presented at the University of Missouri College of Education Research Day, Columbia, MO.
- Frisby, C. L., & **Wang, Z.** (2018, October). *Can classroom spelling tests that include sequential spelling improve performance?* Poster presented at the University of Missouri College of Education Research Day, Columbia, MO.
- Shen, T., **Wang, Z.**, & Hairston, T. (2018, October). *Effects of teacher's self-efficacy on student's math motivation and achievement in secondary education*. Poster presented at the University of Missouri College of Education Research Day, Columbia, MO.
- Liu, J. & **Wang, Z.** (2018, April). *Modeling the effects of home and students' factors on math achievements for fourth graders in the U.S.* Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- Wang, Q., **Wang, Z.**, & Hsiao, Y.-L. (2018, April). *Autonomous motivation for reading: A case from Chinese adolescents*. Poster presented at the annual meeting of the American Educational Research Association, New York, NY.
- Wang, Z.**, Zhang, T., & Liu, J. (2017, November). *Co-teaching Chinese classes: Collaboration between University of Missouri Confucius Institute and Columbia Public Schools*. Poster presented at University of Missouri College of Education Research Day, Columbia, MO.
- Wang, Z.**, Tsai, C. L., & McFarling, P. (2017, November). *Evaluation of University of Missouri's Instruction and Course Evaluation*. Poster presented at University of Missouri College of Education Research Day, Columbia, MO.
- Mendoza, P., Dayigoul, S., **Wang, Z.**, & Zhou, E. (2017, November). *Researching at the bench with an entrepreneurial eye: Academic capitalism in STEMM*. Poster presented at University of Missouri College of Education Research Day, Columbia, MO.
- Liu, J. & **Wang, Z.** (2017, October). *Detecting individual and school effects on mathematics achievement in the United States and Taiwan using TIMSS 2011*. Paper presented at the 2017 Annual Meeting of the Mid-western Educational Research Association, Evanston, IL.
- Wang, Z.**, Tsai, C., & Chandrasekhar, M. (2017, August). *Using two-parameter nested logit model to score a physics knowledge test*. Poster presented at the 2017 American Psychological Association Convention, Washington, DC.

- Park, C.J., Rottinghaus, P. J., **Wang, Z.**, Falk, N., Zhang, T., & Ko, S. (2017, August). *Measurement invariance of Career-Futures Inventory-Revised*. Poster presented at the 2017 American Psychological Association Convention, Washington, DC.
- Kim, M., & **Wang, Z.** (2017, April). *Measurement equivalence of mathematics confidence subscale on the TIMSS (Trends in International Mathematics and Science Study) 2011*. Poster presented at the annual meeting of American Educational Research Association, San Antonio, TX.
- Xu, H. & **Wang, Z.** (2017, April). *Preliminary evaluation research findings of Columbia Public Schools' Chinese program*. Poster presented at the 2017 University of Missouri Undergraduate Research & Creative Achievements Forum, Columbia, MO.
- Yonke, S., Stiepleman, P., **Wang, Z.**, Li, D., Kim, S. S. (2017, March). *Forging a working partnership: Columbia Public Schools and the Confucius Institute (MU) bring Mandarin to our schools*. Paper presented at the 2017 Central States Conference on the Teaching of Foreign Languages, Chicago, IL.
- Wang, Z.** & Kim, M. (2016, August). *A large-scale investigation of relationships between noncognitive factors and reading proficiency*. Paper presented at the 2016 American Psychological Association Convention, Denver, CO.
- Wang, Z.**, Bergin, C., & Bergin, D. (2016, August). *Validation of Classroom Engagement Inventory with high school students in the physics first program*. Poster presented at the 2016 American Psychological Association Convention, Denver, CO.
- Kim, M., **Wang, Z.** & Zhang, T. (2016, August). *Applying multidimensional IRT models to noncognitive ability measures for testing dimensionality*. Poster presented at the 2016 American Psychological Association Convention, Denver, CO.
- Kim, M. , **Wang, Z.** & Zhang, T. (2016, August). *Effects of student and teacher factors on eighth-grade students' mathematics achievement*. Poster presented at the 2016 American Psychological Association Convention, Denver, CO.
- Zhang, T. & **Wang, Z.** (2016, August). *Factor structure and measurement invariance of a mental health measure*. Poster presented at the 2016 American Psychological Association Convention, Denver, CO.
- Lowinger, R.J., **Wang, Z.**, & Hyun, H. (2016, July). *Attitudes toward college affirmative action policies for Asian Americans: An extended theory of reasoned action model*. Paper presented at the 23rd Congress of the International Association of Cross-Cultural Psychology, Nagoya, Japan.
- Liu, J. & **Wang, Z.** (2015, November). *Differential relationships between mathematics achievement, parental involvement and student noncognitive factors: Findings from 4th graders in the United States and in Taiwan*. Paper presented at the 6th Biennial Conference of the Southwest Consortium for Innovative Psychology in Education, Albuquerque, NM.
- Kim, M. & **Wang, Z.** (2015, October). *The effects of parent and school on students' reading achievement in top four countries of PIRLS 2011*. Paper presented at the 2015 Annual Meeting of the Mid-western Educational Research Association, Evanston, IL.
- Wang, Z.**, Yang, P., & Bulus, M. (2015, August). *Two methods to shorten the Positive and Negative Affect Schedule*. Poster presented at the 2015 American Psychological Association Convention, Toronto, Ontario, Canada.

- Bordon, J., Wang, L., & **Wang, Z.** (2015, August). *Mental-health, ethnic identity, and cultural orientation: A comparison between American and foreign-born Asians in North America*. Poster presented at the 2015 American Psychological Association Convention, Toronto, Ontario, Canada.
- Metin, B., Chong, E., Wan, I., **Wang, Z.**, & Rose, C. (2015, August). *Applying multilevel beta regression model to large scale educational data*. Poster presented at the 2015 American Psychological Association Convention, Toronto, Ontario, Canada.
- Metin, B., Rose, C., **Wang, Z.**, Chong, E., Wan, I., & Promnoi, C. (2015, August). *Bullying victimization and racial/ethnic diversity in the United States*. Paper presented at the 2015 American Psychological Association Convention, Toronto, Ontario, Canada.
- Bergin, D., Bergin, C. & **Wang, Z.** (2015, April). School-prompted interest among 4th to 12th graders. Paper presented at the annual meeting of American Educational Research Association, Chicago, IL.
- Kim, M. & **Wang, Z.** (2015, April). Noncognitive factors and mathematics achievement: Differentiated relationships between Korean and US students. Poster presented at the annual meeting of American Educational Research Association, Chicago, IL.
- Kim, M. & **Wang, Z.** (2015, April). The effects of early numeracy experiences and parents' help on mathematics performance using logistic regression for multinomial responses: A case study of TIMSS 2011. Paper presented at the annual meeting of Korean-American Educational Researchers Association, Chicago, IL.
- Wang, Z.** & Bergin, D. A. (2014, August). *Big-Fish-Little-Pond Effects in 58 countries and regions in TIMSS 2011*. Poster presented at the 2014 American Psychological Association Convention, Washington, DC.
- Wang, Z.**, Osterlind, S., Reinke, W., Stormont, M., & Herman, K. (2014, July). From measurement models to scoring methods: An application to group differences. In B. Zumbo (Chair), *Developments in item analysis, latent variable methods, and scoring*. Symposium conducted at the 9th Conference of the International Test Commission, San Sebastián, Spain.
- Wang, Z.**, Bergin, C. C., & Bergin, D. A. (2013, April). *Measuring a multidimensional construct: six approaches and their implications*. Paper presented at the annual meeting of National Council on Measurement in Education, San Francisco, CA.
- Bergin, C. C., **Wang, Z.**, & Bergin, D. A. (2013, April). *Prosocial behavior and engagement in fourth to twelfth grade classrooms*. Roundtable discussion presented at the annual meeting of American Educational Research Association, San Francisco, CA.
- Chen, H., Speckman, P., **Wang, Z.**, & Zhang, J. (2013, April). The number of testlet items and ability estimation methods effect on person misfit detection. Roundtable discussion presented at the annual meeting of American Educational Research Association, San Francisco, CA.
- Chen, H., **Wang, Z.**, Speckman, P., & Zhang, J. (2013, April). *Testlet effects and ability estimation methods influence on person misfit detection*. Poster presented at the annual meeting of National Council on Measurement in Education, San Francisco, CA.
- Yang, P., & **Wang, Z.** (2013, April). *Understanding student retention behavior by using path analysis*. Poster presented at the 5th annual Educational, School & Counseling Psychology conference, Columbia, MO.
- Bergin, D. A., **Wang, Z.**, Bergin, C. C., & Jamroz, R. (2012, August). *Development of a measure of classroom engagement (Not to be confused with school engagement)*. Paper presented at

- the International Conference on Motivation 2012, Frankfurt am Main, Germany.
- Bergin, D. A., Bergin, C. C., & **Wang, Z.** (2012, August). *Age trends in classroom engagement from 4th to 12th grade*. Paper presented at the International Conference on Motivation 2012, Frankfurt am Main, Germany.
- Chen, H., Huang, X., & **Wang, Z.** (2012, August). *How Chinese fathers are involved in their children's lives: A full-information bi-factor analysis for graded response data*. Poster presented at the annual meeting of American Psychological Association, Orlando, FL.
- Chen, H., Huang, X., & **Wang, Z.** (2012, August). *Association of Chinese father involvement and students' self-esteem*. Poster presented at the annual meeting of American Psychological Association, Orlando, FL.
- Wang, Z.** (2012, April). *Examining the Big-Fish-Little-Pond Effect across 49 countries: A multilevel latent variable modeling approach*. Paper presented at the annual meeting of National Council on Measurement in Education, Vancouver, British Columbia, Canada.
- Wang, Z.** & Su, I. (2012, April). *Longitudinal factor structure of general self-concept and locus of control among high school students*. Paper presented at the annual meeting of American Educational Research Association, Vancouver, British Columbia, Canada.
- Bergin, D., Bergin, C., & **Wang, Z.** (2012, April). *Classroom interest from 4th to 12th grade*. Poster presented at the annual meeting of American Educational Research Association, Vancouver, British Columbia, Canada.
- Chen, H., **Wang, Z.**, Huang, X., & Tu, W. (2011, August). *Contextual effects in Coopersmith's self-esteem inventory: An application of differential item functioning*. Poster presented at the annual meeting of American Psychological Association, Washington, DC.
- Wang, Z.** (2011, April). *Assessing measurement invariance of complex data with presence of ordinal indicators*. Paper presented at the annual meeting of National Council on Measurement in Education, New Orleans, LA.
- Wang, Z.**, Cho, S., & Osterlind, S. J. (2011, April). *Measuring student academic growth at a state level*. Paper presented at the annual meeting of American Educational Research Association, New Orleans, LA.
- Bergin, C. C., **Wang, Z.**, Bergin, D. A., Fritz-Bryant, R., & Jamroz, R. (2011, April). *Student classroom engagement in 4th to 12th grade*. Poster presented at the annual meeting of American Educational Research Association, New Orleans, LA.
- Chen, H., Whitney, S. D., **Wang, Z.**, & Zhang, J. (2011, April). *Are father, father involvement the protective factors of school and/or course failure: an investigation of adolescents with six different father groups*. Roundtable discussion presented at the annual meeting of American Educational Research Association, New Orleans, LA.
- Chen, H., Huang, X., **Wang, Z.**, & Tu, W. (2011, April). *Father involvement in China: An item response theory modeling approach*. Roundtable discussion presented at the annual meeting of American Educational Research Association, New Orleans, LA.
- Mackowiak, C., Good, G. E., Harris, K. J., Cronk, N. J., **Wang, Z.**, & Catley, D. (2011, April). *Assessing masculine norms: Factor support for a 22-item Instrument*. Poster presented at the 3rd annual Educational, School & Counseling Psychology conference, Columbia, MO.
- Mackowiak, C., Good, G. E., Harris, K. J., Cronk, N. J., **Wang, Z.**, & Catley, D. (2011, April). *Assessing masculine norms: Factor support for a 22-item Instrument*. Poster presented at the 2011 American Men's Studies Association Conference on Men and Masculinities, Kansas

City, MO.

- Bergin, C. C., **Wang, Z.** & Bryant, R. (2011, March). *Prosocial behavior in fourth to twelfth grade classrooms*. Poster presented at the 2011 biennial meeting of the Society for Research in Child Development, Montreal, Quebec, Canada.
- Wang, Z.**, Cho, S., Osterlind, S. J., & Carr, D. (2010, August). *Examining academic growth: What are the residuals telling us*. Poster presented at the annual meeting of American Psychological Association, San Diego, CA.
- Wang, Z.**, Chen, H., Tu, W., & Huang, X. (2010, August). *Self-esteem among students in China*. Poster presented at the annual meeting of American Psychological Association, San Diego, CA.
- Wang, Z.** & Osterlind, S. J. (2010, May). *Group differences in test retaking and performance among collegians on a high-stakes test*. Roundtable discussion presented at the annual meeting of American Educational Research Association, Denver, Colorado.
- Wang, Z.** (2010, April). *Assessing invariance of motivation in learning mathematics and science between Chinese and US students*. Paper presented at the 18th annual international conference of the Chinese American Research and Development Association, Denver, Colorado.
- Good, G. E., Cronk, N. J., Harris, K. J., & **Wang, Z.** (2010, April). *Assessing masculine norms and their relations to college men's smoking, drinking, and psychological well being*. Poster presented at the 2010 Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, Seattle, WA.
- Rogers, R. S., Widzer, M. O., Dawson, A. W., **Wang, Z.**, Thyfault, J. P., & Hinton, P. S. (2009, November). *The acute effects of a single bout of resistance-training or plyometrics on hormones and markers of bone turnover*. Poster presented at the annual meeting of American College of Sports Medicine (Central States Chapter), Columbia, MO.
- Chen, H., Whitney, S. D., **Wang, Z.**, & Tsai, C. (2009, October). *Father, father involvement, and adolescents' academic performance*. Paper presented at the annual meeting of the Mid-Western Educational Research Association, St. Louis, MO.
- Tsai, C., **Wang, Z.**, Heppner, P., Huang, M., & Chen, H., & Heppner, P. (2009, October). *Comparing the prediction of coping and problem resolution between male and female Taiwanese college students*. Poster presented at the annual meeting of the Mid-Western Educational Research Association, St. Louis, MO.
- Arce-Ferrer, A. J., **Wang, Z.**, & Xue, Q. (2009, April). *Applying Rasch model and generalizability theory to study modified Angoff cut scores for reporting with vertical scales*. Paper presented at the annual meeting of American Educational Research Association, San Diego, CA.
- Bryant, R., Murphy, B., Bergin, D. A., McFarling, P., Parshall, T., Sireno, L., & **Wang, Z.** (2009, April). *Perceptions of responsibility and accountability for student learning in the context of NCLB-mandated testing*. Paper presented at the annual meeting of American Educational Research Association, San Diego, CA.
- Modzelewski, N. E., Whitney, S. D., & **Wang, Z.** (2009, April). *The influence of familism and acculturation on school achievement and problematic drinking behavior in Latino/a adolescents*. Poster presented at the annual meeting of American Educational Research Association, San Diego, CA.
- Wang, Z.**, Osterlind, S. J., & Bergin, D. A. (2009, April). *Academic motivation, mathematics achievement, and the school context: Building achievement models using TIMSS 2003*. Paper

presented at the annual meeting of American Educational Research Association, San Diego, CA.

Wang, Q., & Wang, Z. (2008, September). *Modeling the effects of home environment, children's reading self-concept and attitudes on text comprehension between British and Chinese students: Using PIRLS 2001 data set*. Paper accepted at the 3rd IEA International Research Conference, Taipei, Chinese Taipei.

Heppner, P., Tsai, C., Huang, M., Wang, Z., He, Y., Heppner, M., & Wang, L-F. (2008, August). *Culture specific coping across traumatic events in Taiwan*. Poster presented at the annual meeting of American Psychological Association, Boston, MA.

Stephenson, A., Wang, Z., Arce-Ferrer, A. J., & Xue, Q. (2008, March). *Using HLM to examine growth of English abilities for ELL students and group differences*. Paper presented at the annual meeting of American Educational Research Association, New York, NY.

Wang, Z. (2007, June). *Influences of fluid and crystallized intelligences on planning ability*. Poster presented at Missouri Psychological Association Convention, St. Louis, MO.

Wang, Z. (2006, October). *Use of generalizability theory to estimate reliability of multiple-choice writing scores across years in CBASE*. Poster presented at Winemiller 2006 Conference on Methodological Developments of Statistics in the Social Sciences, Columbia, MO.

Other Presentations

Wang, Z. (2021, April). Statistics, Measurement, and Evaluation in Education Recruitment Presentation. Statistics Department, University of Missouri.

GRANT ACTIVITIES

Active Grants

Collaborative Research: Should I stay or should I go? Understanding the retention of Latinx in engineering jobs (8/15/2020 – 7/31/2025). Funded by the National Science Foundation. 2000607, awarded to Lisa Y. Flores (PI at University of Missouri) and Rachel L. Navarro (PI at University of North Dakota). Award: \$1,546,428 (University of Missouri amount is \$738,011). Role: Key Personnel.

Practice-Driven Professional Development for Algebra Teachers (7/1/2021 - 6/30/2025). Funded by the National Science Foundation, 2101508, awarded to Zandra de Araujo (PI), Samuel J. Otten (co-PI), Amber Candela (co-PI). Award: \$2,533,289. Role: Key Personnel.

ECHO: Prosocial and Positive School Climate (7/1/2021 – 6/30/2025). Funded by the Institute of Education Sciences (IES: Development and Innovation), awarded to Christi Bergin (PI). Award: \$1,999,793. Role: Statistical Consultant.

Completed Grants

Assessing Measurement Invariance of Math Self-Concept and Examining the Big-Fish-Little-Pond Effect across 49 Countries: A Multilevel Latent Variable Modeling Approach (06/01/2011 – 06/30/2011). Funded by the University of Missouri Research Council, SRF-11-013, awarded to Ze Wang. Role: PI. Award: \$3,500

Measuring Student Classroom Engagement (04/01/2011 – 04/01/2012). Funded by the University of Missouri Research Council, URC-11-060, awarded to David Bergin, Christi Bergin, and Ze Wang. Role: Co-Investigator. Award: \$7,329

- Evaluation of a Video-based Modeling Program to Promote Effective Teacher Classroom Management Practices (08/01/2010-07/31/2015). Funded by the Institute of Education Sciences (IES; Efficacy and Replication), R305A100342, awarded to Wendy Reinke, Keith Herman, and Melissa Stormont. Role: Data Manager/Analyst. Contribution: Responsible for data management and statistical analyses. Award: \$2,959,028
- Prediabetes awareness and diabetes prevention program media projects 2015 (09/01/2015-5/30/2016). Funded by the Missouri Department of Health and Senior Services, awarded to the Health Communication Research Center at the Missouri School of Journalism at the University of Missouri. Role: Evaluator. Award: \$ 77,189
- The CoLABorative Field Experience Model: Supporting Elementary Preservice Teachers in Math and Science (2016). Funded by the ReSTEM Institute of the College of Education at the University of Missouri, awarded to Dante Cisterna, Deborah Hanuscin, Zandra de Araujo, Ze Wang, and Laura Zangori. Role: Co-Investigator. Award: \$7,423
- Effects of teacher and teaching factors on Chinese language learning among middle and high school students in Columbia Public Schools (2017). Richard Wallace Faculty Incentive Grant, funded by Mizzou Alumni Association. Role: Principal Investigator. Award: \$3,680
- Missouri prediabetes media campaign (2017-2018). Funded by the Missouri Department of Health and Senior Services, awarded to the Health Communication Research Center at the Missouri School of Journalism at the University of Missouri. Role: Evaluator.
- NRT-IGE: A test bed for STEM graduate student communication training (9/1/2015 - 8/31/2018). Funded by the National Science Foundation, 1545177, awarded to Jack C. Schultz, and Shelly L. Rodgers. Role: Statistician and Evaluator. Award: \$487,468
- Examining relationships between flipped instruction and students' learning of mathematics (8/1/2017 – 7/31/2020). University of Missouri PRIME Fund, awarded to Zandra U. de Araujo (PI), Samuel J. Otten (co-PI), Ze Wang (co-PI), and James Tarr (co-PI). Award: \$49,935.
- Examining relationships between flipped instruction and students' learning of mathematics (8/1/2017 – 7/31/2021). Funded by the National Science Foundation, 1721025, awarded to Zandra de Araujo (PI), Samuel J. Otten (co-PI), Ze Wang (co-PI), and James Tarr (co-PI). Award: \$539,011.

AWARDS AND RECOGNITIONS

- Winemiller Excellence Award Honorable Mention, University of Missouri, 2018
- Gold Chalk Award, University of Missouri, 2016
- Mizzou Ed Golden Apple Teaching Award, University of Missouri College of Education, 2016
- University of Missouri Confucius Institute Board of Directors, 2016-2020
- University of Missouri Top Faculty Achiever, 2016
- Service Award, Division of School Psychology of the American Psychological Association, 2014, 2015, 2016, 2017
- 14th Global Scholars Program, MU Council on International Initiatives, University of Missouri, 2013
- G. Ellsworth Huggins Fellowship, University of Missouri, 2003-2008

- Slawski Fellow, Harcourt Assessment, Inc., Summer 2007
- Second Place Graduate Poster Competition Award, Missouri Psychological Association, 2007
- Outstanding Bachelor's Thesis Award, University of Science and Technology of China, 2002
- Student of Good Character and Fine Scholarship Award, Anhui, China, 2002
- Excellent Graduating Student Award, University of Science and Technology of China, 2002
- Outstanding Student Scholarship, University of Science and Technology of China, 2001, 2000
- Zhangzongzhi Sci-Tech Scholarship, University of Science and Technology of China, 1999
- Outstanding Student Scholarship, University of Science and Technology of China, 1998, 1997

PROFESSIONAL TRAINING

- Data Science Town Hall by the National Science Foundation (virtual), October 8, 2021
- Statistical Power Analysis by Zhiyong (Johnny) Zhang, Behavioral Data Science Meeting (virtual), June 4, 2021
- Machine Learning by Kevin Grimm, Online workshop, Statistical Horizons, May 24-27, 2021
- Wakonse Conference on College Teaching, 2021, Virtual Conference, May 21- 22, 2021.
- Introduction to Graphical Models for Causal Inference by Peter Steiner, Online course, University of Maryland, March 31 – April 2, 2021.
- Mentoring & Collaboration in Quantitative Research by Laura M. Stapleton, Gregory R. Hancock, and Kimberly A. Griffin, 2021 AERA-ICPRSR PEERS Data Hub Workshop (virtual), March 17, 2021
- Introduction to the Stanford Education Data Archive (SEDA) by Sean Reardon, Erin Fahle, Andrew Ho, and Ben Shear, 2021 AERA-ICPRSR PEERS Data Hub Workshop (virtual), March 9, 2021
- Cutting-Edge Quantitative and Computational Methods for STEM Education Research by Kenneth Frank, Guanglei Hong, Stephen Raudenbush, Yanyan Sheng, Kaitlin Torphy, and Jiliang Tang, 2021 AERA-ICPRSR PEERS Data Hub Workshop (virtual), February 25, 2021.
- Modern Meta-Analysis Research by Terri Pigott, Joshua R. Polanin, and Ryan Williams, 2021 AERA-ICPRSR PEERS Data Hub Workshop (virtual), February 10, 2021.
- Bayesian Interpretation of Impact Estimates from Education Evaluations by John Deke and Mariel Finucane, SREE Webinar, July 28, 2020.
- Statistical Learning for Process Data by Jingchen Liu, Xueying Tang, and Susu Zhang, Virtual Workshop, July 25, 2020
- Using Stan for Bayesian Psychometric Modeling by Yong Luo and Manqian (Mancy) Liao, NCME Virtual Training Session, June 26, 2020.
- Cognitive Diagnosis Modeling: A General Framework Approach and Its Implementation in R by Jimmy de la Torre and Wenchao Ma, NCME Virtual Training Session, June 17-18, 2020
- Analyzing NAEP Process Data Using R by Emmanuel Sikali, Ruhan Circi, Fusun Sahin, Xiaying Zheng, Juanita Hicks, So Youn Lee, and Tiago A. Caliço, AERA 2020 Virtual Research Learning Series, June 10, 2020.
- Introduction to Systematic Review and Meta-Analysis by Terri D. Pigott, Amy L. Dent, Joshua R. Polanin, and Joseph Taylor, AERA 2020 Virtual Research Learning Series, June 4, 2020.
- Sharing Your Research with the World by Jenny Grant Rankin, AERA 2020 Virtual Research

Learning Series, June 3, 2020.

- Analyzing Data From International Large-Scale Assessments Using R by Emmanuel Sikali, Paul Bailey, Ebru Erberber, and Ting Zhang, Toronto, Ontario, Canada, April 4, 2019.
- Introduction to Python 7-Hour Short Course by Steven Stehnach, University of Missouri, Columbia, Missouri, January 26, 2019
- Analysis of Complex Survey Data by Laura Stapleton, (attended virtually) University of Maryland, College Park, Maryland, December 10-11, 2018.
- Applied Analytics Using SAS Enterprise Miner by Tom R. Bohannon, University of Missouri, Columbia, Missouri, March 28-30, 2017
- Evaluating Training Programs: Frameworks and Fundamentals by Ann M. Doucette, The Evaluators' Institute, January 13-14, 2017
- Longitudinal Growth Modeling with Mplus by Kevin J. Grimm, Stats Camp, January 5-7, 2017
- Grant Writing Workshop, Institute of Education Sciences Webinar, June 3, 2015
- Helping Students Develop a Growth Mindset for Academic Success, Institute of Education Sciences Webinar, May 28, 2015
- IES Basic Overview, Institute of Education Sciences Webinar, May 28, 2015
- IES FY 2016 Funding Opportunities: Application Submission Process, Institute of Education Sciences Webinar, May 27, 2015
- Advances in Measuring 21st Century Skills: Constructs, Development, and Scoring, Chicago, April 16, 2015
- Statistical Analysis with the GLIMMIX Procedure by Mike Speed, University of Missouri, Columbia, Missouri, November 2014
- "What's Happening at IES," Keynote Address by Dr. John Easton, Director of Institute of Education Sciences, University of Kansas, Lawrence, KS, March 18, 2011
- Propensity Score Matching Strategies for Evaluation Substance Abuse Services for Child Welfare Clients, Webinar, September 2010
- Writing a Competitive Proposal for the National Science Foundation's (NSF) Division of Research on Learning in Formal and Informal Settings, Denver, CO, May 2010
- Grant Writing for Large-scale Secondary Data Analysis, Denver, CO, May 2010
- Faculty Grant Writing Institute, University of Missouri, Summer 2009
- Cross-Sectional and Longitudinal Analyses with Categorical Latent Variables, San Diego, C.A., April 2009
- Applying Hierarchical Models to Causal Inference, San Diego, CA, April 2009
- ETS Graduate Student Conference on Measurement and Psychometrics, Princeton, NJ, July 2008 (fully-funded)
- International Studies Database Training Seminar sponsored by NCES, Washington, DC, June 2007 (fully-funded)
- SAS PROC CALIS Workshop, University of Missouri-Columbia, October 2006

PROFESSIONAL MEMBERSHIPS

American Educational Research Association 2006-present

National Council on Measurement in Education 2008-present

American Psychological Association 2009-present
 Psychometric Society, 2014-2016
 American Statistical Association 2010
 Chinese American Educational Research and Development Association 2009-2010, 2015-present

PROFESSIONAL SERVICE

Associate Editor, Frontiers in Psychology – Educational Psychology, 2021-
Editorial Board member, SAGE Open, 2016-present
Editorial Board member, School Psychology Quarterly, 2014-2017
External Reviewer for Tenure and Promotion, 2017(1), 2021(2)
Advisor, What Teens Want from Their Schools: A National Survey of High School Student Engagement. Thomas B. Fordham Institute, 2016-2017
Special Issue Editor, International Journal of Quantitative Research in Education, 2016-2017
Grant proposal reviewer, The Netherlands Organisation for Scientific Research, 2016-2017
Consulting Editor, Psychological Assessment, 2016
Article Editor, SAGE Open, 2015
Conference Proposal Reviewer, AERA annual conference proposals, 2007, 2009, 2011, 2012, 2013
 NCME annual meeting proposals, 2011, 2012, 2019
 Chinese American Educational Research and Development Association annual international conference proposals, 2010, 2011
Conference Session Chair/Discussant, the 18th annual international conference of the Chinese American Research and Development Association, 2010
 Graduate Student Poster Session, annual meeting of NCME, 2012
 Differential Item Functioning with Special Item Types Session, annual meeting of National Council on Measurement in Education, 2015
Ad hoc reviewer, American Educational Research Journal
 Asia Pacific Education Review
 British Journal of Mathematical and Statistical Psychology
 Contemporary Educational Psychology
 Educational Measurement: Issues and Practice
 Educational Research and Evaluation
 Educational Researcher
 International Journal of Quantitative Research in Education
 Learning and Individual Differences
 Journal of Educational Psychology
 Measurement and Evaluation in Counseling and Development
 Review of Educational Research
 Psychological Assessment
 School Psychology Quarterly
 The Asia-Pacific Education Researcher
 Frontiers in Psychology, section Educational Psychology
 Scientific Studies of Reading
Psychometrician, College Board Advanced Placement Exam review, American Council on

Education, August, 2011

Book Manuscript Reviewer, Taylor and Francis, 2018

External Program Reviewer, Department of Applied Statistics and Research Methods,
University of Northern Colorado, 2020-2021

Program Co-Chair, Division 5 of the American Psychological Association, 2021

Program Chair, Division 5 of the American Psychological Association, 2022

Program Chair, AERA Large Scale Assessment Special Interest Group, 2021-2022

Membership Committee, AERA Division D, 2021-2022

COURSES TAUGHT

- Structural Equation Modeling (Spring 2009, Fall 2009, Spring 2010, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Spring 2018, Spring 2019, Spring 2021, Spring 2022); open access e-book: https://zewang.netlify.app/books/sem/_book/
- Application of Multivariate Analysis in Educational Research (Summer 2008, Fall 2008, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2012, Spring 2013)
- Regression in Applied Research (Spring 2011)
- Quantitative Analysis in Educational Research I (Spring 2012, Spring 2013, Fall 2013, Spring 2014, Fall 2014, Spring 2015)
- Introduction to Applied Statistics (Summer 2012, Summer 2014, Spring 2015, Summer 2015, Summer 2016, Supervised graduate student instructors, Fall 2011-Spring 2016)
- Quantitative Foundations in Educational Research (Fall 2020, Fall 2021); open access e-book: https://zewang.netlify.app/books/quant-foundations/_book/
- Foundations of Educational and Psychological Measurement (Fall 2021)

UNIVERSITY SERVICE

- **Departmental Service**
 - 2009-2010: Ad hoc Grant Enhancement Committee
 - 2009-2011: Statistics Course Sequence Development Committee
 - 2010-2011: School Psychology Faculty Search Committee
 - 2011: Spousal Accommodation Hire (Measurement and Statistics) Review Committee
 - 2011-2012: Ad hoc Policy Work Group Committee
 - 2012: Faculty Evaluator for Oral Performance Tests for International Teaching Assistants
 - 2012: Big 12 Faculty Fellow Host
 - 2012-2013: ESCP Conference Organization Committee, Co-Organizer
 - 2012-2013: ESCP Faculty Search Committee, Member
 - 2013: Ad-hoc Review Committee for COE Graduate Student Scholar of the Year
 - 2013-2015: Faculty Evaluator for English Proficiency of International Teaching Assistants
 - 2015: Host of Visiting Scholar from Central China Normal University
 - 2016: Host of Visiting Scholar from the University of Illinois-Urbana Champaign
 - 2018-2019: ESCP faculty Search Committee, Member
 - 2020-2021: Local Recruitment for SMEE
 - 2021-2022: Preparing Future Faculty – Faculty Diversity Search Committee, Chair
 - 2008-present: Doctoral Admissions Committee

- 2008-present: Masters Admissions Committee
 2014-present: Department Academic Personnel Committee
- **College Service**
 - 2010: faculty panel member, International Student Organization
 - 2013: faculty presenter, Lunch and Learn workshop
 - 2013-2015: faculty sponsor, College of Education International Student Organization
 - 2008-present: statistical/methodological consultation to colleagues
 - 2014-2016: member, College of Education Policy Committee
 - 2015-2018: faculty advisor, Education Students and Scholars Global Network
 - 2016-2017: member, Graduate Education Committee
 - 2016: faculty panelist. Global Crossings -Building and Nurturing Mutual Connections: Mizzou Ed International Students, Faculty and Professional Staff
 - 2018-2024: member/chair, Faculty Responsibility and Appeals Committee
 - 2019: Math Education postdoc Search Committee, Member
 - 2019-2020: member, Curators' Distinguished Professor/Teaching Professor Review Committee
 - 2020-2022: member, Outstanding College Teaching College Committee
 - **University of Missouri (MU) Campus Service**
 - 2009-2012: member, Committee on Residence for Tuition Purposes
 - 2013, 2014, 2015, 2016: judge, annual Research and Creative Activities Forum
 - 2014-2016: member, Revision of Student Records Committee
 - 2021-2024: member, Information Technology Committee
 - **University of Missouri (UM) System Service**
 - 2013: UM Research Board Proposal Reviewer

DISSERTATION AND THESIS SUPERVISION

- **As Chair of PhD Committee (3 completed)**
 - Haiqin Chen (2013). Performance of person fit indices on aberrant responses detection for multidimensional IRT testlet model.
 - Ping Yang (2016). Developing efficient MCMC algorithms through data augmentation for Rasch and two-parameter logistic nested logit models.
 - Metin Bulus (2017; co-chaired with Dr. Nianbo Dong). Design considerations in three-level regression discontinuity studies.
 - Jingfei Liu (In progress). Development and preliminary validation of multidimensional life satisfaction of internal migrant workers' children in China.
 - Minsun Kim (In progress). Multilevel structural equation modeling for 2-1-1 mediation using Bayesian methods.
- **As Member of PhD Committee (36 completed)**
 - Adipat Chaichanasakul (2009), Min Huang (2009), Chang Dae Ham (2011), Isabella Zaniletti (2011), Seung Bin Cho (2011), Vu H. Nguyen (2011), Chia-Lin Tsai (2012), Joonghwa Lee (2012), Lala Ganiyeva (2012), Angellar Manguvo (2013), Ihui Su (2013), Troy Hogg (2013), Yong He (2013), Chris Bradshaw (2014), Eun Hae Park (2014), Marlen Kanagui-Munoz (2014), David Rohrer (2015), Laura McAndrews (2015), Manu Bhandari (2015), Nai-En Tang (2015), Ran Zhao (2015), Yaoran Li (2015), Charlie Brunette (2016), Dongjun You

(2016), Nancy Ellis-Ordway (2016), Terrie Nagel (2016), Yang Cheng (2017), Jenna Wintemberg (2017), Scott Seyrek (2017), Surin Chung (2018), Yu Cunningham (2018), Deija McLean (2019), Oscar Rojas Perez (2019), Xinting Zhao (2019), Chan Jeong Park (2020), Bo Hyun Lee (2021).

- **As Chair of Master's Committee (3 completed)**

Haiqin Chen (2009). The effects of father involvement on adolescents' academic performance.

Minsun Kim (2013). Effects of literacy environmental factors on fourth graders' mathematics-related outcomes in Finland.

Jennifer Bordon (2015). Cultural orientation, ethnic identity, and mental health: A comparison between American-raised and foreign-raised Asians in north America.

- **As Member of Master's Committee (9 completed)**

Katie Peterson (2008), Juan Liu (2009), Stephanie Coleman (2009), David Rohrer (2012), Steven Mackey (2015), Jimmy Behrens (2016), Josh Murray (2017), Kahee Han (2017), Huiqi Xu (2018).