

Curriculum Vitae

Xin Liang (Ph.D.)

Professor of Research Methodology
Department of Educational Foundations & Leadership
College of Education
University of Akron
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Education

Degree	University	Year	Major
Ph. D.	University of North Dakota	2002	Research Methodology
M. Ed.	Mount Saint Vincent University	1999	Educational Foundations
B. A.	Xin Jiang University	1983	English

Professional Experience

2011-Present	Department of Educational Foundations & Leadership, University of Akron, Akron, Professor
2007-2011	Department of Educational Foundations & Leadership, University of Akron, Akron, Associate Professor
2002- 2007	Department of Educational Foundations & Leadership, University of Akron, Akron, Assistant Professor
1999- 2002	Bureau of Educational Services & Applied Research, University of North Dakota, Grand Forks, Research Assistant

Courses Taught

5170-745: Advanced Program Evaluation in Educational Organizations
5100-744: Introduction to Qualitative research
5100-743: Advanced Statistics in Education
5100-742: Data Collection Methods
5100-741: Advanced Research Design
5100-653: Practical Applications of Program Evaluation
5100-651: Data Driven Decision Making for Practitioners
5100-610: Introduction of Statistics for Social Science
5100-641: Introduction of Classroom Assessment
5100-640: Techniques of Research

Publications

- Liang, X., Collins, J. L., Lenhart, A. L. & Ressa, V. (2020). Instructional change following formative instructional practices professional development. *Teacher Development* 24 (1), 108–125. doi=10.1080/13664530.2019.1705886
- Liang, X, Collins, J. L. (2019). Planning professional development: What educators know about formative instructional practices. *Mid-Western Educational Researcher*. 31(4), 434-447.
- Sangganjanavanich, F. V, Dang, Y. & Liang, X. (2019). The validation of the multicultural supervision scale. *The Journal of Counselor Preparation and Supervision*. 12(4). Retrieved from <https://repository.wcsu.edu/jcps/vol12/iss4/>
- Lehart, A. L., Brueck, J. & Liang, X. (2019). Does play help children learn words?: Analysis of a book play approach using an adapted alternating treatment design. *Journal of Research in Childhood Education*.
- Collins, J. L. & Liang, X. (2016). Examining high quality online teacher professional development: Teachers' voices. *International Journal of Teacher Leadership*, 18 (6), 18-33.
- Liang, X., Collins, J. L., Kruse, S., & Lenhart, A. L. (2015). Information is not implementation: Fidelity to a statewide professional development plan. *Academy of Educational Leadership Journal*, 19 (3), 195-204
- Collins, Linda, & Liang, X. (2014). Task relevance in the design of online professional development for teachers of Ells: A Q Methodology Study. *Turkish Online Journal of Distance Education*, 15 (3), 268-281.
- Gray, K., Owens, K., Liang, X., & Steer, D. (2012). Assessing multimedia influences on student responses using personal response system. *Journal of Science Education Technology*, 21, 392–402. DOI 10.1007/s10956-011-9332-1
- Collins, Linda, & Liang, X. (2012). A study on ELL teachers' perceptions of relevancy in 'participating online profession development. *Journal of Professional Development in Education*. DOI:10.1080/19415257.2012.712752
- Beese, J. & Liang, X. (2010). Does school resources matter? Comparative analysis of school resources and students science achievement in the U.S., Canada, and Finland. *Improving Schools*. 13(3), 266-279. DOI: 10.1177/1365480210390554
- Liang, X (2010). Assessment use, self-efficacy, and mathematics achievement: comparative analysis of PISA 2003 Data of Finland, Canada, and the U.S. *Evaluation & Research in Education*, 23 (3), 213-229.
DOI: 10.1080/09500790.2010.490875.
- Steer, D.; McConnell, D.; Gray, K.; Kortz, K.; Liang, X. (2009). Analysis of student responses to peer-instruction conceptual questions answered using an electronic

- response system: Trends by gender and ethnicity. *Journal of Science Educator*, 18 (2), 30-38.
- Liang, X & Zhang, G. (2009). Indicators to evaluate pre-service teachers' cultural competence. *Evaluation & Research in Education*. 22 (1), 17-31.
- Liang, X & Zhou, Q. (2009). Students' experiences of mathematics learning in technology integrated classrooms. *International Journal of Technology in Teaching and Learning*. 5(1), 62-74.
- Liang, X, Ward, C., & Xiao, Y. C. (2008). Indicators of a successful open source collaborative learning environment. *Journal of Instructional Delivery Systems*. 22 (4), 14-19.
- Vonderwell, S., Liang, X., & Alderman, K. (2007). Asynchronous discussion and classroom assessment in online learning. *Journal of Research on Technology in Education*, 39 (3), 309-328.
- Smolen, L, Colville_Hall, S, Liang, X, & MacDonald, S. (2006). An empirical study of college of education faculty's perceptions, beliefs, and commitment to teaching of diversity in teacher education programs at four urban universities. *Urban Review* 38 (1), 45-61.
- Forawi, S. A. & Liang, X. (2005). Science electronic portfolios: Developing and validating the scoring rubric. *Journal of Science Education*, 2 (6), 97-99.
- Liang, X. (2004). Using e-observation to conduct qualitative inquiry online- A research note. *National Forum of Applied Educational Research Journal*, 2(87), 2004-2005, 5-12.
- Liang, X & Creasy, K. (2004). Classroom assessment in web-based instructional environment: instructors' experience. *Practical Assessment, Research & Evaluation* (online journal), 9(7), <http://pareonline.net/getvn.asp?v=9&n=7>online journal.
- Liang, X, Colville_Hall, S, MacDonald, S., & Smolen, L. (2004). A Mixed method approach: the study of faculty beliefs in the teaching of diversity in college of education. *Journal of Research in Education* 14 (1), 57-66.
- Liang, X, He, B, & Landry, R. (2004) Content validity of a locally-developed instrument measurement for accreditation purposes. *Journal of Effective School*, 3 (2), 29-39.
- Liang, X. (2003). An empirical investigation of a modified matrix sampling procedure as an evaluation tool for grades 7-12 in a Midwestern school district. *Evaluation and Research in Education*, 17(1), 1-5.

Book Chapter

- Ward, C., Kushner-Benson, S. & **Liang, X**, (2014). The Development of Technological Pedagogical Content Knowledge in Instructors By Participating in Quality Matters Training and Peer Collaboration. In Angeli, C., & Valanides, N. Eds) *Technological Pedagogical Content Knowledge: Exploring, developing, and assessing TPCK*. 13-17. Springer: New York. DOI 10.1007/978-1-4899-8080-9

- Liang, X. (2007). Application of testing theory to measure pre-service teacher's beliefs, self-reflections, expectations, & praxis to ameliorate prejudice and discrimination. In Feng, X., Hu, X., & Liang, J. (Ed), *Cross-linguistics & Cross-cultural Communication-Theory & Application in Language Teaching & Research*. 144-155. The World Chinese Publishing Company Ltd.
- Liang, X. & Creasy, K. (2006). Classroom assessment in web-based instructional environment: instructors' experience. In Hirschbuhl, J. J & Kelley, R. J (Ed), *Computers in Education*. McGraw-Hill.

Funded Grants

- Koskey, K., Liang, X. & Ahmed, W. (2018-2019). (Co-PI) Bright To University Evaluation Project. Funding received \$55,000. Canton School District.
- Visco, O. D; Nadaa, M. & Liang, X. (2017-2020). (CO-PI) University of Akron first Year Industry Connection Program. Funding received 450,000. NSF Award 1726464.
- Liang, X., & Collins, L. (2015-2016). (PI) Evaluation of Ohio TIF Professional Development project. Funding received \$100,000 from Ohio Battelle for Kids.
- Bridgie F, Vakil, S., Smolen, L, Kline, L. & Liang, X. (2014-2015). (Evaluator). Ohio Dean's Compact Grant. Funding received \$520,000 from ODE (Ohio Department of Education).
- Liang, X., Lenhart, L., & Kruse, S. (2012-2015). (PI) Program Evaluation for Formative Instructional Practice (FIP). Funding received \$597,500.00 from ODE (Ohio Department of Education).
- Liang, X. (2010-2015). (Evaluator for University of Akron) Woodrow Wilson Foundation Stem Teacher Fellow Program. Funding received \$65,000.00 from WW Foundation.
- Ward, C., Lampner, W., & Liang, X. (2010). (Co PI). Development of technological pedagogical content knowledge (TPACK) in instructors using quality matters training, rubric and peer collaboration. Funding received \$4,750.00. Quality Matters.
- Liang, X, & Olson, S. (2008-2010). (PI). The Evaluation of the QuickStart to College Project. Funding received \$ 75,000.00 from Ohio Learning Network.
- Steer, D. & Liang, X. (2007-2011). (CO PI). Collaborative Research: Evaluating student learning in geoscience curricula that employ conceptests using electronic student response systems. Funding received \$247,221.00 from National Science Foundation.
- Kruse, S & Liang, X. (2008-2009). (Co PI). Supplemental Educational Services External Evaluation Project. Funding received \$43,320.08 from ODE.

- Liang, X. Xiao, Y.C., & Ward, C. (2007-2008). (PI). The Evaluation of the Open Learning Partnership Ohio. Funding received \$45,000 from Ohio Learning Network.
- Steer, D. & Liang, X. (2007-2008). (CO PI). Collaborative Research: Evaluating student learning in geoscience curricula that employ conceptests using electronic student response systems. Funding received \$18,505.00. Matching Fund by Ohio Board of Regents.
- Kruse, S & Liang, X. (2007-2008). (Co PI). Supplemental Educational Services External Evaluation Project. Funding received \$31,320.08 from ODE.
- Liang, X, & Zachariah, S. (2006-2007). (PI). The State of Ohio Enhancing Education Through Technology Program Evaluation Project. Funding received \$78, 453.00 from ODE.
- Kruse, S & Liang, X. (2007-2008). (Co PI). Supplemental Educational Services External Evaluation Project. Funding received \$31,320.08 from ODE.
- Liang, X, & Zachariah, S. (2006-2007). (PI). The State of Ohio Enhancing Education Through Technology Program Evaluation Project. Funding received \$78, 453.00 from ODE.
- Kruse, S & Liang, X. (2006-2007). (Co PI). Supplemental Educational Services External Evaluation Project. Funding received \$31,320.08 from ODE.
- Forawi, S, Herschbuhl, J. & Liang, X. (2006). (Evaluator). Institute for Development of K-12 Teachers' Scientific Ways of Knowing. Funding received \$ 45,000.00 from Ohio Board of Regents.
- Kruse, S & Liang, X. (2005). (Co PI). Supplemental Educational Services External Evaluation Project. Funding received \$19,320.08 from Ohio Department of Education.
- Kruse, S, & Liang, X. (2004). (Co PI). Supplemental Educational Services External Evaluation Project. Funding received \$25,320.08 from Ohio Department of Education.
- Liang, X, & Kruse, S. (2004). (PI). Supplemental Educational Services External Evaluation Project. Funding received \$ 5,180.00 from Cleveland Municipal School District.

Refereed Conference Presentations

- Ahmed. W., Koskey, K., Liang, X., Makki, N. (November 2019). Year_round schooling: Does it reduce summer slide for economically disadvantaged students? 2019 International Conference of Education Research and Innovation (ICERI). Virtual Presentation, November, Seville, Spain.
- Liang, X., Shernavaz, V. & Smolen, L. (November, 2019). What do they do at home? Comparison of families of English language learner (ELs) and native English speakers in high populations of ELs community. 2019 International Conference of

- Education Research and Innovation (ICERI). Virtual Presentation, November, Seville, Spain.
- Lenhart, L. Roskos, K., Brueck, J., Liang, X. (July, 2017). Say-Tell-Do-Play: Improving Breadth and Depth of Word Learning at Preschool. Society for the Scientific Study of Reading Conference. Halifax, Nova Scotia.
- Collins, L. & Liang, X., Lenhart, L. & Ressa, V. (2016). Classroom Instructional Change Following Formative Instructional Practice Professional Development. American Educational Research Association Conference. Washington, DC.
- Liang, X. & Collins, L. (2015). Comparing High Quality Online Professional Development Features to a Statewide Online Professional Development Program. American Educational Research Association Conference. Chicago, IL.
- Liang, X. & Collins, L. (2014). Implementation Fidelity of a Statewide Teacher Professional Development Initiative. American Educational Research Association Conference, Philadelphia, PA.
- Collins, L., Gorden, J., Liang, X. (2013, April). Under microscope. Annual Conference of National Association of Research for Science Teachers (NARRTS). San Juan, Puerto Rico
- Collins, L., Gorden, J., Liang, X. (2013, April). Reviewing the Status of Equity and Diversity in Science Education: Content Analysis of Research Literature. AERA, San Francisco, CA.
- Liang, X. Pachinowski, L., & Plaster, K., (2013, submitted). An Analysis of Teacher Candidates' Need in a Clinical Immersed STEM Teacher Preparation Program AERA, San Francisco, CA.
- Liang, X. Pachinowski, L., & Plaster, K., (2013, submitted). Factors for Successful Clinical Practice of Mathematics Teacher Candidates AERA, San Francisco, CA.
- Beese, J. & Liang, X. (2011). The Impact of Technology Integration on Academic achievement for Special Needs Students? American Educational Research Association Conference. New Orland, LA, April, 2011.
- Beese, J. & Liang, X. (2010). The Impact of Technology Integration on Academic achievement for Special Needs Students? American Educational Research Association Conference. Denver, April, 2010.
- Liang, X. & Beese, J. (2009). An evaluation of high stakes tests in respect to special needs populations. American Evaluation Association Conference. Orlando, Nov, 2009.
- Liang, X. (2009). Experience of Using TPACK Model to Evaluate Open Source Collaborative Learning System. 7th Conference for International Humanities, Beijing, June, 2009.

- Liang, X. & Beese, J. (2009). Does school resources matter? Comparative analysis of school resources and students science achievement in the U.S., Canada, and Finland. Midwestern Educational Research Association Conference, October, St Louis, 2009.
- Liang, X, Ward, C., & Xiao, Y.C. (2008). Enhancing Technology Use Through Open Source Learning System: Initial Findings from OLP_Sakai Pilot Project. E-Learn 2008-World Conference, November, Las Vegas, Nevada.
- Liang, X. (2008). Assessment use, self-efficacy, and mathematics achievement: comparative analysis of PISA 2003 Data of Finland, Canada, and the U.S. Midwestern Educational Research Association Conference, October, Columbus, 2008.
- Forawi, S, & Liang, X. (2007). Examining and Validating Pre-service Science Teachers' Electronic Portfolio Experiences. Paper presentation at the 2007 AERA conference, April, Chicago, IL.
- Liang, X. & Forawi, S, Hircshbuhl, J. J. (2007). Increasing inservice teachers' scientific way of knowing. Paper presentation at the NARST conference, April, New Orland, LA, 2007.
- Liang, X. (2007). Application of Testing Theory to Measure Cultural Competency of PreService Teachers in College of Education. Paper presentation at the 2007 international conference on language education research. August, Urumqi, China.
- Forawi, S, & Liang, X. (2006). Preservice teachers' assessment of critical thinking attributes of the Ohio academic standards. Paper presentation at the 2006 American Evaluation Association conference, Nov, Portland, Oregon.
- Vonderwell, S, & Liang, X. (2005). Assessment of asynchronous discussion in online learning. Paper presentation at the 2005 American Educational Research Association conference. April, Montreal.
- Colville-Hall, S; Liang, X; Alderman, K; & Chappell, C. (2005). A data-driven system to assess the effectiveness of teacher preparation in addressing diversity education. Paper presentation at the 2005 American Educational Research Association conference. April, Montreal.
- Liang; X, Smolen, L; Colville_Hall, S; & MacDonald, S. (2005). *A Mixed method approach to study faculty beliefs in the teaching of diversity in college of education.* Paper presentation at the 2005 American Educational Research Association conference. April, Montreal.
- Liang, X. (2004). Using formative assessment to impact student expectation, effort, and achievement in master's cohort classes. A paper presentation at the 2004 American Evaluation Association Conference. Nov., Atlanta, Georgia.

- Forawi, S, & Liang, X. (2004). Validation of an electronic rubric to assess science preservice teacher's learning. Paper presentation at the 2004 American Evaluation Association Conference. Nov., Atlanta, Georgia.
- Liang, X. & Landry, R. (2003). Validation of a Local Instrument for the Evaluation of School Effectiveness for the North Central (NCA) Commission on Schools Standards. Paper presentation at the 2003 American Evaluation Association Conference. Nov., Reno, Nevada.
- Liang, X. & Richard, L. (2002). An empirical examination of a modified matrix sampling procedure as an evaluation tool for grade 7 through 12 in a Midwestern school district. A poster presentation at the 2002 American Evaluation Association Conference. Nov, Washington D.C.

Professional Service

- 2008-present: Fairness and Sensitivity Committee of PARCC test items supported by U.S. Department of Education
- 2008-present: Ohio Achievement Test: Fairness and Sensitivity Committee supported by Ohio Department of Education
- 2009-2010 Division D Chair (Measurement and Evaluation) Midwestern Educational Research Association.
- 2010-2012 **Co**-Editor of Mid-Western Educational Researcher Journal.
- 2008-2010 Test Item Reviewer of Ohio Achievement Test (OAT) Fairness and Sensitive Committee for the Assessment Office of Ohio Department of Education.
- 2009-2011 Test Item Reviewer of Ohio Achievement Test (OAT) Fairness and Sensitive Committee for the Assessment Office of Ohio Department of education.
- 2009-2010 Division D Chair (Measurement and Evaluation) Midwestern Educational Research Association.
- 2008-2009 Division D Co-Chair (Measurement and Evaluation) Midwestern Educational Research Association.
- 2007-2011 Reviewer for the Journal of Educational Research and Evaluation.
- 2013-2017 Curriculum Committee Review (Chair) Graduate Council of University of Akron.
- 2009-2011: The University Confucius Institute **Steering Committee**
- 2009-2010: College of Education Graduate Studies Committee (**Chair**)
- 2008-2009: College of Education Graduate Studies Committee (**Chair**)
- 2010-2011: College of Education Community Committee (**Co-Chair**)
- 2009-2010: Ad Hoc College of Education Budget Efficient Committee
- 2009-2010: Ad Hoc Chair Review Committee
- 2008-2010: College of Education College Council **Executive Committee**

2009-2010: College of Education Community Committee

2008-2009: College of Education Diversity Committee

2008-2009: Ad Hoc College of Curriculum Proposal Review Process Committee

2008-2010: Department Curriculum Committee

2008-2009: Department Chair Review Committee

2008 Ad Hoc Department Market Adjustment Committee

Akron Community Service

2010-2014 North East Ohio Chapter of 80-20 Initiatives (**Treasurer**).

2003-2008 Freedom House for Women, Inc. (Vice president)

2005-2006 Kappa Delta –Akron (advisor)

Award

Liang, X. (2009). Service Award, Freedom House for Women, Akron, OH