

Curriculum Vitae
LIHUA XU, PH.D.

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EDUCATION

Ph.D. December 2009 **Oklahoma State University** - Stillwater, OK
Specialization: Research and Evaluation, Educational Psychology
Certificate: TESOL / Linguistics
Dissertation: *Measurement Invariance of the Inventory of School Motivation across Chinese and American College Students*

M.A. 2003 **Sun Yat-sen University** - Guangdong, China TESOL / Linguistics
B.A. 1998 **Sichuan University** - Sichuan, China English

ACADEMIC EMPLOYMENT

2017 – present Assistant Professor in Educational Research
Western Carolina University, College of Education and Allied Professions Department of Human Services, Educational Leadership Ed.D. program

2010-2017 Lecturer and Statistics Lab Coordinator
University of Central Florida, College of Education and Human Performance, Department of Educational and Human Sciences, Methodology Measurement and Analysis

Courses Taught

2017- present Western Carolina University

- Multiple Regression (EDL 793)
- Design and Analysis of Educational Research (EDRS 802)
- Data Representation (EDRS 805)
- Classroom Assessment for Student Learning (EDRS 709)

- Methods of Research (EDRS 602)

2010-2017

University of Central Florida, Educational and Human Sciences – Orlando, FL

- Fundamentals of Graduate Research in Education (EDF 6481)
- Measurement and Evaluation in Education (EDF 6432)
- Statistics for Educational Data (EDF 6401)
- Mixed Methods for Evaluation (EDF 6464)

2003-2009

Oklahoma State University, Research and Evaluation – Stillwater,
OK Research Design and Methodology (REMS
5013)

Oklahoma State University, English Department – Stillwater,
OK International Composition I (ENGL 1113)
International Composition II (ENGL 1223)

Peer-Reviewed Journal Articles (13 articles)

* Indicates invited

1. Hayles, O., **Xu, L.**, & Edwards, O. W. (2018). Family structures, family relationship, and children's perceptions of life satisfaction. *School Psychology Forum*, 12(3), 91-104.
2. Lavery, M. R., Acharya, P., Sivo, S. A. & **Xu, L.** (2017). Number of predictors and multicollinearity: What are their effects on error and bias in regression? *Communications in Statistics - Simulation and Computation*.
3. **Xu, L.**, Diket, R., & Brewer, T. (2017). Predicting students' performance using NAEP data: Secondary analysis using SmartPLS. *Art Education Policy Review*, 120(1), doi:10.1080/10632913.2017.1327382
4. Brewer, T., **Xu, L.**, & Diket, R. (2017). Confirming the significance of art specialists and aspirational learning. *Art Education*, 70(2), 16-24. doi: 10.1080/00043125.2017.1274189
5. **Xu, L.**, Wubbena, Z., & Stewart, T. (2016). Testing measurement invariance of second-order factor models of Multifactor Leadership Questionnaire across K-12 principal gender. *Journal of Educational Administration*, 54(6), 727-748.
6. **Xu, L.**, Brewer, T. & Diket, R. (2016). Secondary data analysis of NAEP visual art Mother/Child block; The reference connection between government and users. *The Reference Librarian*. doi: 10.1080/02763877.2016.1123568
7. **Xu, L.**, Stewart, T., & Haber-Curran, P. (2015). Measurement invariance of the

Servant Leadership Questionnaire (SLQ) across K-12 principal gender. *School Leadership and Management*, 35(2), 202-214. doi: 10.1080/13632434.2015.1010502.

8. Diket, R., **Xu, L.** & Brewer, T. (2014). Toward an Aspirational Learning Model gleaned from large-scale assessment. *Studies in Art Education*, 56(1), 397-410.
9. **Xu, L.**, & Barnes, L. (2011). Measurement invariance of scores from the Inventory of School Motivation across Chinese and U.S. college students. *International Journal of Testing*, 11(2), 178-210.
10. **Xu, L.** (2010). Translation and evaluation of Chinese version of the Inventory of School Motivation. *Sino-US English Teaching*, 8(1), 54-59.
11. **Xu, L.**, & Bassham, L. S. (2010). Reexamination of factor structure and psychometric properties of Three-Component Model of organizational commitment. *North American Journal of Psychology*, 12(2), 297-311.
12. Nolan, R., Hughes, T., **Xu, L.**, Lakshmanan, A., & Meeker, O. (2010). The effectiveness of self-instruction to improve firefighter health and safety. *International Fire Service Journal of Leadership and Management for Publication*, 4(1), 23-31.
13. **Xu, L.**, & Montgomery, D. (2008). Exploration of acculturation typologies for Chinese students who choose to study in the United States: A Q-methodological study. *Journal of Human Subjectivity*, 6(1), 97-117.

Peer-Reviewed Book Chapters (4 book chapters)

* Indicates invited

14. ***Xu, L.** (in press). Scale development and factor analysis. In V.C.X. Wang (Ed), *Scholarly Publishing and Research Methods across the Disciplines*. Hershey, PA: IGI Global.
15. Xu, L., Diket, R. & Brewer, T. (2015). Bringing the Arts as data to visualize how knowledge works. In Information Resources Management Resources (Ed.), *Big data: Concepts, methodologies, tools and applications*. (Chapter 75, pp. 1647-1667). Hersey, PA: Information Science Reference.
16. **Xu, L.**, Diket, R. & Brewer, T. (2015). Bringing the Arts as data to visualize how knowledge works. In A. Ursyn (Ed.), *Maximizing Cognitive Learning through Knowledge Visualization*. Hershey, PA: IGI Global.
17. ***Xu, L.** (2014). Measurement development and validation in research: Statistical techniques and illustrations. In V.C.X. Wang (Ed), *Handbook of Research on Scholarly Publishing and Research Methods*. Hershey, PA: IGI Global

Book Review

Hathcoat, J., Gregg, N., & **Xu, L.** (2017). Review of the book *Principles and Methods of Test Construction: Standards and Recent Advances*, by K. Schweizer and C. Distefano (Eds.). Germany: Hogrefe. *Psychometrika*, 82(3), 871-874. doi: 10.1007/s11336-017-9560-2

TECHNICAL REPORTS

Bowers, P., Stevens, J., & **Xu, L.** (2009). *2009 Survey of Alumni of Graduate Programs*. Oklahoma State University, Office of University Assessment and Testing.

Bowers, P., Stevens, J. & **Xu, L.** (2009). *General Education Assessment Annual Report, 2009*. Oklahoma State University, Office of University Assessment and Testing.

Bowers, P., Stevens, J. & **Xu, L.** (2008). *General Education Assessment Annual Report, 2008*. Oklahoma State University, Office of University Assessment and Testing.

Bowers, P., Stevens, J., & **Xu, L.** (2008). *2008 Survey of Alumni of Undergraduate Programs*. Oklahoma State University, Office of University Assessment and Testing,

Nolan, R., Hughes, T., **Xu, L.**, Lakshmanan, A., & Edwards, S. (2008). United States Fire Administration/FEMA Final Report (Project number AA-5-14896).

PEER-REVIEWED PRESENTATIONS

International Conference (18 presentations)

1. Yang, H-W., **Xu, L.**, et al. (2019). *Handling categorical data in SPSS AMOS: A review under Bayesian structural equation modeling*. Proposal submitted to the American Educational Research Association, April 5-9, Toronto, Canada.
2. Diket, R., Siegesmund, R., & **Xu, L.** (2019). *Encouraging discussion among educators with data from secondary analysis of NAEP arts 1997, 2008, 2016*. Proposal submitted to the American Educational Research Association, April 5-9, Toronto, Canada.
3. **Xu, L.**, & Yang, H. W. (2018). *Secondary analysis of NAEP Visual Arts data using Bayesian structural equation modeling*. Proposal submitted to the American Educational Research Association, April 13-18, New York City, NY.
4. **Xu, L.**, & McGann, D. (2016). *Prediction of student performance: Secondary analysis using Smart PLS*. Presented to the Psychometric Society, July 11-15, Asheville, NC

5. Lavery, M., Acharya, P., Sivo, S. & Xu, L. (2016). *Number of predictors and multicollinearity: What are their effects on error and bias in regression?* Presented to American Educational Research Association, April 8-12, Washington DC.
6. **Xu, L.**, Stewart, T., & Haber-Curran, P. (2015). *Testing measurement invariance of the Servant Leader Questionnaire across K-12 principal gender.* Roundtable presentation to American Educational Research Association, April 16-20, Chicago, Illinois.
7. **Xu, L.**, Stewart, T., & Wubbena, Z. (2015). *Testing measurement invariance of second-order factor model of the Multifactor Leadership Questionnaire.* Paper presented to American Educational Research Association, April 16-20, Chicago, Illinois.
8. **Xu, L.**, Diket, R., & Brewer, T. (2014). *Theory of how students progress to meaning within the National Assessment of Educational Progress.* Roundtable presentation to American Educational Research Association, April 3-7, Philadelphia, PA.
9. Stewart, T., Haber-Curran, P., & **Xu, L.** (2014). *Servant leadership and K-12 principal gender: Measurement invariance of the Servant Leader Questionnaire.* Poster presented at Hawaii International Conference in Education. January 5-8, Honolulu, HI.
10. **Xu, L.** (2012). *Some preliminary secondary analysis of NAEP 2008 visual arts restricted data.* In R. Diket (Chair), *Discussing Educational Policy and Implications.* Symposium presented for American Educational Research Association, April 13-17, Vancouver, BC.
11. **Xu, L.**, & Bassham, L. S. (2010). *Reexamination of Three-Component Model of organizational commitment.* Presented to the Annual American Educational Research Association. Denver, Colorado, April 30 – May 4.
12. **Xu, L.**, & Hathcoat, J. (2010). *Hierarchical factor structure of the Inventory of School Motivation.* Presented to the International Objective Measurement Workshop meeting. Boulder, Colorado, April 29-30.
13. **Xu, L.** (2010). *Translation and evaluation of Chinese version of the Inventory of School Motivation.* Presented to CAERDA international conference. Denver, Colorado, April 29 -30.
14. **Xu, L.**, & Barnes, L. (2010). *Validation studies of the Inventory of School Motivation among Chinese college students.* Presented to CAERDA international conference. Denver, Colorado, April 29 -30.
15. **Xu, L.** (2009, May). *Cross-cultural validation of the Inventory of School Motivation.* Presented to the 2nd Annual Meeting of the Society for the Study of Motivation (SSM). San Francisco, California.

16. **Xu, L.** (2009, March). *Acculturation typologies*. Presented to the International Q Methodology Symposium. Stillwater, Oklahoma.
17. Nolan, R., & **Xu, L.**, & Hughes, T. (2007, June). *A Study in self-directed learning for volunteer firefighters*. Presented to 48th Adult Education Research Conference and 26th Canadian Association for the Study of Adult Education. Halifax, Nova Scotia, Canada.
18. **Xu, L.** (2006, September). *A Q-Methodological study of Chinese people's feelings towards their experience at Oklahoma State University*. Presented to the 22nd annual conference of the International Society for the Scientific Study of Subjectivity. Trondheim, Norway.

National Conference (17 presentations)

19. Edwards, O., & **Xu, L.** (2017). *Caregiver configurations, family connectedness and children's perceptions of life satisfaction*. Post presentation at the 125th American Psychological Association convention. August 3-6, Washington DC.
20. Diket, R., **Xu, L.**, Brewer, T., & Burton, D. (2017). *Mixed methods in research: Broadening research perspective and applications*. Paper presented at the National Art Education Association, March 2-4, NY: New York.
21. Diket, R., **Xu, L.**, & Brewer, T. (2017). *The Cart and the Horse: What NAEP Arts tell us about curricula*. Paper presented at the National Art Education Association, March 2-4, NY: New York
22. McAfee, M., **Xu, L.**, & Hoffman, B. (2016). *Measuring teaching and learning misconceptions among undergraduate teacher candidates*. Poster presentation at the 124th American Psychological Association convention. August 4-7, 2016, Denver, Colorado.
23. McAfee, M., **Xu, L.**, & Hoffman, B. (2015). *Identifying the educational psychology misconceptions among pre-service teachers*. Poster presentation at the 123rd American Psychological Association convention. August 6-9, 2015, Toronto, Canada.
24. Grodoski, C., Sutters, J., Diket, R., **Xu, L.**, Brewer, B., & Ward, A. (2015). *Research forum on data visualization-The continuing conversation*. Paper presented to National Arts Education Association. March 26-29, New Orleans, LA.
25. Diket, R., **Xu, L.**, Brewer, B., & Sutters, J. (2015). *Making data visible: Using demographic data for research and advocacy*. Paper presented to National Arts Education Association. March 26-29, New Orleans, LA.
26. Diket, R., **Xu, L.**, & Brewer, T. (2015). *Guiding thinking by instructional design: NAEP arts, reading and science*. Paper presented to National Arts Education Association. March 26-29, New Orleans, LA.

27. **Xu, L.**, Stewart, T., & Wubbena, Z. (2014). *Testing measurement invariance of second-order factor models of Multifactor Leadership Questionnaire across K-12 principal gender*. Poster presented at Modern Modeling Methods Conference. May 19-22, Storrs, CT.
28. **Xu, L.**, Stewart, T., & Haber-Curran, P. (2014). *Measurement invariance of the Servant Leadership Questionnaire across gender*. Poster presented at Modern Modeling Methods Conference. May 19-22, Storrs, CT.
29. **Xu, L.**, Diket, R., Brewer, T. & **Xu, L.** (2014). Data Visualization. National Association of Education in Arts.
30. **Xu, L.**, & Stewart, T. (2012). *Reexamination of the factor structure of the Multifactor Leadership Questionnaire*. Poster presented at 120th American Psychological Association annual convention. August 2-5, Orlando, FL.
31. Diket, R., Brewer, T., **Xu, L.**, & Grey, A. (2012). *The 2008 NAEP restricted data arrives; we have some early analysis*. Presented to the 2012 National Art Education Association conference. New York, NY. March 3.
32. **Xu, L.** (2011). *Evaluating measurement invariance in educational settings*. Presented to the American Evaluation Association. Anaheim, California. November 2 - 5.
33. **Xu, L.** (2010). *Measurement invariance of the Inventory of School Motivation between the U.S. and Chinese college students*. Presented to the 118th American Psychological Association Annual Convention. San Diego, California, August 12 - 15.
34. Bassham, L. S., & **Xu, L.** (2010). *Understanding presidential assistants' commitment*. Proposal submitted to 23rd National Association of Presidential Assistants in Higher Education, Phoenix, Arizona, March 5 - 7.
35. Nolan, R., & **Xu, L.** (2006, November). *Effectiveness of self-directed learning for volunteer firefighters*. Presented to the 2006 American Association for Adult and Continuing Education. Milwaukee, Wisconsin.

Regional & Local Conferences (20 presentations)

36. **Xu, L.** & Yeager, G. (2017). *Factors related to effective learning in an online research course*. Presented to the Sunshine State Teaching and Learning conference, St. Pete Beach, FL. February 15-17, 2017.
37. Chumbimuni-Torres, K., **Xu, L.**, Tripp, M., Anthony, A., Rovito, M., Walters, L., & Garcia, M. (2017). *Research, applying, evaluating while learning in a face-to-face chemistry class*. Presented to the Sunshine State Teaching and Learning conference, St. Pete Beach, FL. February 15-17, 2017.

38. **Xu, L.**, Tripp, M., Chumbimuni-Torres, K., Anthony, A., Rovito, M., Walters, L., & Garcia, M. (2016). *Embedded peer coach pedagogy to improve undergraduate research in STEM students*. Paper presented to SoTL Commons, Georgia Southern University, Savannah, GA. March 30-April 1, 2016.
39. McAfee, M., **Xu, L.**, & Hoffman, B. (2016). *Development and validation of educational psychology misconception scale for pre-service teachers*. Paper presented to SoTL Commons, Georgia Southern University, Savannah, GA. March 30-April 1, 2016.
40. **Xu, L.**, & Aoyu, J. (2015). *Self-efficacy, motivation and intercultural communication competence of Chinese EFL learners*. Florida Educational Research Association, Orlando, FL. November 18-20.
41. **Xu, L.** (2015). *Partial least squares structural equation modeling*. Presented to the Eastern Educational Research Association Annual Conference, Sarasota, FL. February 25-28.
42. Diket, R., Brewer, T., **Xu, L.**, & Grey, A. (2011). *Finally: The 2008 NAEP restricted data arrives; we have some early analysis*. 2011 Southeastern College Art Conference, Savannah, GA. November 9-12.
43. **Xu, L.** (2010, April). *Measurement invariance of psychological instrument*. Presented to Oklahoma Educational Research Association conference. Stillwater, Oklahoma.
44. Bassham, L. S., & **Xu, L.** (2009, October). *Presidential assistants' commitment through the lens of career stages*. Proposal accepted at the 40th Annual Meeting of Northeastern Educational Research Association. Rocky Hill, Connecticut.
45. Bassham, L. S., & **Xu, L.** (2009, February). *College and university presidential assistants' commitment to remain employed*. Presented to the 20th Annual Oklahoma State University Research Symposium. Stillwater, Oklahoma.
46. Hughes, T., Nolan, R., & **Xu, L.** (2009, February). *The effectiveness of self-directed learning as an educational method for improving volunteer firefighters' health and safety*. Presented to the 20th Annual Oklahoma State University Research Symposium. Stillwater, Oklahoma.
47. **Xu, L.**, & Bassham, L. S. (2009, February). *Cross-cultural validation of the Inventory of School Motivation*. Presented to the 20th Annual Oklahoma State University Research Symposium. Stillwater, Oklahoma.
48. **Xu, L.**, Bassham, L. S., Hill, B., & Kominsky, T. K. (2008, February). *Development and validation of the General Inventory of Stereotype Threat*. Presented to the 19th Annual Oklahoma State University Research Symposium. Stillwater, Oklahoma.

49. Bassham, L. S., & Xu, L. (2008). *Job satisfaction among presidential assistants in higher education*. Presented to the 19th Annual Oklahoma State University Research Symposium. Stillwater, Oklahoma.
50. **Xu, L.**, & Lee, C. H. (2008, February). *Measurement equivalency of the General Inventory of Stereotype Threat across gender*. Presented to 31st Annual Southwest Educational Research Association. New Orleans, LA.
51. Nolan, R., & **Xu, L.** (2007, March). *Volunteer firefighter health and safety through self-instruction*. Presented to the 1st Annual Big XII Research Conference. Oklahoma City, Oklahoma.
52. **Xu, L.**, Nolan, R., & Hughes, T. (2007, February). *Instrumental development in the study of self-directed learning for volunteer firefighters*. Presented to the 18th Annual Oklahoma State University Research Symposium. Stillwater, Oklahoma.
53. **Xu, L.**, & Nolan, R. (2007, January). *A Study in self-directed learning for volunteer firefighters*. Proposal accepted at the 5th Oklahoma Educational Studies Association. Norman, Oklahoma.
54. **Xu, L.** (2006, January). *Chinese graduate students' experience at Oklahoma State University*. Presented to the 4th Oklahoma Educational Studies Association. Stillwater, Oklahoma.
55. **Xu, L.**, & Bassham, L. S. (2006, February). *ACT performance through the lens of self-efficacy*. Presented to the 17th Annual Oklahoma State University Research Symposium. Stillwater, Oklahoma.

GRANTS APPLIED

- Xu, L.** (co-PI, 2018-2021) Longitudinal Study Using Restricted Data from NAEP 1997, 2008, 2016. Institute of Educational Sciences – Educational Research (Diket, R., PI; co-PIs Siegesmund, R. Burton, D., Sabol, R. & Brewer, T.) Amount: \$400,000 (Rejected).
- Xu, L.** (Statistician, 2016-2019). Strategies Proposal: Building the STEM Pipeline by Promoting High School Students' STEM College and Career Readiness Through Skilled Peer Mentoring in STEM University Research Labs. National Science Foundation (Co-PIs: Wahid, P., Zygouris-Coe, V.) (Rejected)
- Xu, L.** (2015-2016). In-House Faculty Study/Research Abroad Grants 2015-2016, University of Central Florida, \$3000 (Awarded).
- Diket, R., **Xu, L.**, & Brewer, T. (2013-2014). *The Structure of Art Working in NAE Achievement Blocks (Visual Art and Reading)*. National Endowment for the Arts NEA Research: Art Works, RY 2013, \$30,000 (Rejected).
- Diket, R., Brewer, T., & **Xu, L.** (2011-2013). *Statistical paths to higher order understanding*

modeled on NAEP 2008 Arts restricted data. American Educational Research Association. Amount applied: \$35,000 (Rejected).

THESIS AND DISSERTATION COMMITTEE SERVICE

2018 - present

Served on four disquisition committees (1 chair, and 3 members) in the Educational Leadership program at WCU

2010-2017

Served on 13 dissertation and thesis committees at University of Central Florida

PROFESSIONAL REVIEWER

2007-2016

Book Review

The Practice of Survey Research: Theory and Applications (prior to publishing)

Manuscript Review

Journal of Psychoeducational Assessment

The Journal of Experimental Education

The International Journal of Testing

The International Journal of Leadership in Education

SAGE open

SELECTED HONORS AND AWARDS

Western Carolina University

Grant Writer Travel Award

Chancellor's Travel Fund award

University of Central Florida

Competitive Fund for Professional Development

Outstanding Rising Assessment Leader by Western Psychological Sciences

Outstanding Top Performance at Oklahoma State University Research Symposium

PROFESSIONAL AFFILIATIONS

American Educational Research Association

(AERA) Carnegie Project on Education Doctorate

(CPED)

Department, College and University Committee Services

2017 –

present *Western Carolina University*

WCU IT Governance Committee

CEAP EdD student candidate interview and selection committee, Educational Leadership Program

WCU Research and Scholarship Celebration Committee

CEAP Nomination and Elections Committee

CEAP Botner Superior Teaching Award Committee

