

# **CURRICULUM VITAE**

**LEPING LIU**

**PROFESSOR**

Counseling and Educational Psychology  
MS/281  
College of Education  
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## **Summary**

Over 20 years' higher education work for two universities in the United States, including teaching, research, service, with experiences in developing and managing graduate programs, and administrative work as department Chair. Taught more than 25 courses in instructional technology, instructional design, information technology in education, statistics, research design, and counseling technologies. Published 20+ books and numerous refereed journal articles, book chapters, and conference articles. Did over 100 presentations at national and international conferences. Successful in grant writing. Statistics consulting for the present university. Editor in chief of the International Journal of Technology in Teaching and Learning.

## **Degrees**

Ph.D., 1998. Counseling and Educational Psychology  
Major: Information Technology in Education, Statistics  
From: University of Nevada, Reno

M. S., 1995. Curriculum and Instruction  
Major: Computer Education, Secondary Education  
From: University of Nevada, Reno

## **Employment History**

### *Professor*

2010 – Now: College of Education. University of Nevada, Reno

### *Department Chair*

2010 – 2011: Department of Educational Psychology, Counseling, and Human Development.  
University of Nevada, Reno

### *Associate Professor*

2004 – 2010: Department of Educational Psychology, Counseling, and Human Development.  
University of Nevada, Reno

*Statistics Consultant*

2006 – 2011: Center of Research Design and Statistics, University of Nevada, Reno

*Assistant Professor*

2002 – 2004: Department of Counseling and Educational Psychology, University of Nevada, Reno

*Assistant Professor*

1998– 2002: Department of Reading, Special Ed. and Instructional Technology, Towson  
University, Maryland

*Teaching and Research Assistant, Computer Lab Manager*

1992 – 1998: College of Education, University of Nevada, Reno

### **Major Research Interests**

*New areas (2015 -- ):*

- Data science applications: Developed big data analytics skills for research, including machine learning, big data analytics, text analytics, data visualization, and survival analytics.
- Artificial intelligence in education
- Learning analytics, dynamic learning, dynamic assessment, and dynamic prediction
- Dynamic Instructional Design Modeling: developed new dynamic models for research, teaching and practice.
- Solutions on issues in statistics methods for educational research: effect size, missing data, Likert scale measurement

*Ongoing areas:*

- Technology Integration Modeling: Developed an ITD Integration Model, which has been used in my teaching and research over years.
- Teaching with Technology: Most of my teaching duties are focused on this area.
- Instructional Design and Practice: in developing and creating new courses or instructional modules, which have been examined over years and improved with data-based research results.
- Online Teaching and Learning: Design and development in online courses and online graduate programs, which have been assessed, examined over years, and improved with data-based research results.
- Online Counseling: Using technology as a tool to conduct online counseling activities and sessions.
- New Application Design: keep up with the rapid development of technology and design current technology applications for teaching and learning

- **Dynamic Research Modeling in Education:** Developed a dynamic research model, based on which all kinds of educational research design could be systematically formulated. Modeling in technology integration, instructional design, online teaching and learning, and online counseling have been a major portion of my research and practice over years.
- **Research and Statistics:** Developed a Statistics Website that covers the basic statistics methods for researchers in the field of education. Teaching advanced statistics courses.
- **Propensity Score Analysis:** Matching methods to reduce sampling bias for educational research.
- **Editorial Work:** Edited theme books, special theme issues for Computers in the Schools, the editor-in-chief of the International Journal of Technology in Teaching and Learning, the editor-in-chief of SITE research highlight book.

### **Administrative Experiences**

*Department Chair (2010 – July, 2011):*

Department of Educational Psychology, Counseling, and Human Development.

University of Nevada, Reno

- Managing the new department merged from two departments (Dept. of Counseling and Educational Psychology, and Dept. of Human Development and Family Studies)
- Coordinating faculty from the two departments to develop a new friendly working environment that promotes the excellence of teaching, research, and service
- Conducting administrative work such as program management and development, course scheduling, program assessment and evaluation, department budget planning, student recruiting, research/grant supporting, faculty/staff annual evaluation, and coordinating professional activities college-wide and campus-wide.
- Working on curricular review and reorganization of the college structure
- Being nominate as the candidate of the Associate Dean of the college

*Graduate Program Director, Assessment Coordinator (2004 – now):*

Department of Educational Psychology, Counseling, and Human Development.

University of Nevada, Reno

- Managing and Coordinating two Master programs and three Doctoral programs
- Developed and managed an online assessment system for the graduate programs
- Analyzing data and writing program evaluation report
- Updating programs with current national standards and new needs from K-12

*Online Program Director (2004 – Now):*

Department of Educational Psychology, Counseling, and Human Development.

University of Nevada, Reno

- Designed, developed, implemented, and managed two online Masters' programs:

- M.S. Information Technology in Education
- M.Ed. – Educational Psychology
- Coordinating faculty to develop and update all online courses
- Managing an online orientation and administrative system

*Doctoral Program Coordinator (2001-Now):*

- Developed, updated, and managed the PhD, EdD programs in Educational Psychology, Information Technology in Ed. at University of Nevada, Reno
- Worked on the development and management of an EdD program in Instructional Technology, at Towson University

*Computer Lab Manager (1992-1998, 2008 – 2013):*

College of Education, University of Nevada, Reno

- 60 Dell computers, software/hardware updating
- Student proctor mentoring
- Service to faculty and students campus-wide
- Managing summer camp use of the lab

## **Teaching**

Courses Taught:

*University of Nevada, Reno (2002 – now) – All with excellent course evaluations.*

EDRS 740	Advanced Educational Measurements & Statistics
EDRS 741	Applied Research Design & Analysis in Education I (Non-Parametric Statistics)
EDRS 743	Applied Research Design & Analysis in Education II (Advanced Multivariate Analysis)
CEP 426/626	Advanced Web Design in Education*
CEP 485/685	Advanced Methods of Technology Integration*
CEP 486/686	Design of Digital Visual Applications for Instruction*
CEP 720	Instructional Design and Information Technology*
CEP 725	Assessment in Information Technology*
CEP 613/413	Computer Telecommunications in Technology
CEP 617/417	Field Works and Practicum in Information Technology
CEP 611/411	Programming Languages in Information Technology in Education
CEP 610	Information Technology in Education
CEP 612/412	Methods of Using Information Technology in Teaching and Learning
CEP 425/625	Design of Online Teaching and Learning*
CEP 620	Career Development and Information Technology*
CEP 605	Counseling and Information Technology*
CEP 790	Seminar – Research and Publishing in Information Technology in Education*
CEP 790	Seminar – Academic Writing for Information Technology Journals
CEP 790	Seminar – Meta-Analysis*
CEP 790	Seminar – Logistic Regression
CEP 790	Seminar – Methods of Multi-Modeling
CEP 790	Seminar – Propensity Score Matching
CEP 790	Seminar – Instructional Photography*

CEP 710 Online Program Management\*  
EDU 204 Information Technology in Teaching  
EDU 214 Prepare Teachers Using Technology  
(\* ) – New developed courses

*Towson University: (1998 – 2002) – All with excellent course evaluations*

ISTC 201 Using Information Effectively in Education  
ISTC 269 Laboratory in Instructional Hardware  
ISTC 541/441 Computer Technology and Utilization  
ISTC 687 Computer Based Instruction  
ISTC 635 Theory & Design of Computer Based Instruction  
ISTC 605 Web Based Instruction  
ISTC 705/674 Advanced Web Applications in Education\*  
REED 670 Technology in Reading\*  
ISTC 663 Applied Psychology in Learning  
EDUC 615 Applied Educational Statistics\*  
(\* ) – New developed courses

*Other Teaching and Advisory Activities:*

- Advising and chairing Doctoral student committees
- Advising and chairing Master’s student committees
- Developing online courses
- Developing online programs
- Developing new courses to update the programs and serve the school districts

## **Research and Publications**

### Articles in Referred Journals

- Liu, L.**, Chen, L., & Li, W. (2019). Social Media in Dynamic Learning: Logistics and Influential Factors. *Journal of Educational Technology Development and Exchange*, 12(1), 33-57.
- Chen, L., & **Liu, L.** (2019). Content analysis of statistical power in educational technology research: Sample size matters. *International Journal of Technology in Teaching and Learning*, 15(1), 49-75.
- Chen, L., & **Liu, L.** (2018). Instructor’s self-assessment of content design in online courses. *International Journal of Technology in Teaching and Learning*, 14(1), 24-41.
- Liu, L.** , & Chen, L. (2018). Conducting synchronous assessment through web videoconference to improve online learning: Case outcomes with nonparametric analysis. *Journal of Educational Technology Development and Exchange*, 11(1), 45-64.
- Liu, M., **Liu, L.** , & Liu, Li. (2018). Group awareness in creases student engagement in online collaborative writing. *The Internet and Higher Eduation*, 28(2018), 1-8.
- Liu, L.** , Liang, Y., Li, W. (2017). Dynamic assessment and prediction in online learning: Exploring the methods of collaborative filtering in task recommender system. *International Journal of Technology in Teaching and Learning*, 13(2), 103-117.

- Dini, D. & Liu, L. (2017). Intrinsic Motivation Factors in Gamified Photography Learning: Direct and Indirect Effects. *Journal of Educational Technology Development and Exchange*, 10(2), 1-24.
- Liu, L. , Li, W., & Scherer, R. (2016). Technology in counseling education: Case analysis and a dynamic course design. *International Journal of Technology in Teaching and Learning*, 12(2), 123-138.
- Liu, L. , Ripley, D., & Lee, A. (2016). Flipped Learning and Influential Factors: Case Analysis. *Journal of Educational Technology Development and Exchange*, 9(2), 89-107.
- Lee, A. M., & Liu, L. (2016). Examining flipped learning in sociology courses: A quasi-experimental design. *International Journal of Technology in Teaching and Learning*, 12(1), 47-64.
- Bell, P., & Liu, L. (2015). Social Justice Reasoning of Education Undergraduates: Effects of Instruction in Moral Development Theory and Dilemma Discussion in the Asynchronous Online Classroom. *International Journal of Technology in Teaching and Learning*, 11(1), 60-75.
- Liu, L. , & Ripley, D. (2014). Propensity score matching in a study on technology-integrated science learning. *International Journal of Technology in Teaching and Learning*, 10(2), 88-104.
- Liu, L. , & Li, W. (2012). Using an online learning management system as collaborative media to support adult learning: Needs assessment. *International Journal of Technology in Teaching and Learning*, 8(2), 135-145.
- Liu, L. (2011). Factors influencing students' preference to online learning: Development of an initial propensity model. *International Journal of Technology in Teaching and Learning*, 7(2), 93-108.
- Liu, L. , Zhu, X., Shen, Y., & Li, W. (2011). Preparing high school students for college biomedical engineering through laboratory technology activities. *International Journal of Technology in Teaching and Learning* 7(1), 79-92.
- Liu, L. , & Maddux, C. (2010). Using dynamic design in the integration of type II applications: Effectiveness, strategies and methods. *International Journal of Technology in Teaching and Learning*, 6(1), 71-88.
- Liu, L. , Jones, P., & Sadera, W. (2010). An investigation on experienced teachers' knowledge and perceptions of instructional theories and practices. *Computers in the Schools*, 27(1). 20-34.
- D'Andrea, L., & Liu, L. (2009). The CACREP standards: How much do students know? *Vistas*, 6(1).
- Maddux, C., Liu, L. , & Johnson, L. (2008). Web 2.0: On the cusp of a revolution in information technology in education? *Computers in the Schools*, 25(3/4), 159-162.
- Liu, L. , & Maddux, C. (2008). Web 2.0 articles: Content analysis and a statistical model to predict recognition of the need for new instructional design strategies. *Computers in the Schools*, 25(3/4), 314-328.
- Liu, L. , & Maddux, C. (2008). Examining the Predictive Validity of an Instrument: Technology Attitudes and Learning. *Computers in the Schools*, 25(1/2), 145-158.
- Liu, L. , Maddux, C., & Johnson, L. (2008). Assessment of Integration of Technology in Education: Countering the "No Significant Differences" Argument. *Computers in the Schools*, 25(1/2), 1-9.

- Cantrell, P., **Liu, L.**, Leverington, M., & Ewing-Taylor, J. (2007). The Effects of Differentiated Technology Integration on Student Achievement in Middle School Science Classrooms. *International Journal of Technology in Teaching and Learning*, 3(3), 36-54.
- Liu, L.** (2007). An intermediate effect between the quality of Web-based learning applications and student learning. *International Journal of Technology in Teaching and Learning*, 3(2), 29-46.
- Liu, L.**, Aberasturi, S. M., Richmond, A., & Kongrith, K., (2007). An Examination of Publication Bias in an *International Journal of Information Technology in Education*. *Computers in the Schools*, 24(1/2), 145-165.
- Schafle, S., Smaby, M. H., & **Liu, L.** (2006). Counselors' attitudes toward video editing technology. *Vistas*, 3(1), 1-9. Online journal by American Counseling Association at [http://counselingoutfitters.com/vistas/vistas\\_2006\\_Title.htm](http://counselingoutfitters.com/vistas/vistas_2006_Title.htm)
- Maddux, C., & **Liu, L.** (2006). Publish research findings: Some suggestions for junior faculty. *International Journal of Technology in Teaching and Learning*, 1(2), 55-62, (2005 issue out in March 2006).
- Liu, L.** (2006). A call for dynamic research in information technology in education. *International Journal of Technology in Teaching and Learning*, 1(1), 1-8, (2005 issue out in January 2006).
- Liu, L.**, & Johnson, D. L. (2005). Web-based resources and applications: Quality and influence. *Computers in the Schools*, 21(3-4), 131-147.
- Maddux, C., **Liu, L.**, Cummings, R., & Newman, J. (2005). Aids and cautions in planning, developing, and delivering online instruction in higher education. *Innovate*, 1(4).
- Liu, L.**, & Maddux, C. (2005). Influences of course design on student evaluations: An initial logistic prediction model. *Journal of Excellence in College Teaching*, 16(1), 125-148.
- Liu, L.** (2005). Evaluating online learning applications: Development of quality-related models. *International Journal of Information and Communications Technology Education*, 1(3), 21-35.
- Liu, L.**, & Jones, P. (2004). Impact of online communication design on student motivation and performance. *Journal of Research on Education*, 14(1), 40-56.
- Liu, L.**, Maddux, C., & Johnson, L. (2004). Computer attitude and achievement: Is time an intermediate variable? *Journal of Technology and Teacher Education*, 12(4), 593-607.
- Liu, L.**, & Velasques-Bryant, N. J. (2003). An information technology integration system and its life cycle: What is missing? *Computers in the Schools*, 20(1/2), 93-106.
- Liu, L.**, & Johnson, D. L. (2002). Assessing student learning in instructional technology: Dimensions of learning model. *Computers in the Schools*, 18(2/3), 79-95.
- Liu, L.**, Johnson, D. L., Maddux, C. D., & Henderson, N. J. (2002). Assessing learning in the new age of information technology in education. *Computers in the Schools*, 18(2/3), p.1-3.
- Liu, L.**, & Cummings, R. (2001). A learning model that stimulates geometric thinking through use of PCLogo and Geometer's Sketchpad. *Computers in the Schools*, 17(1/2), 85-104.

- Johnson, D. L., & **Liu, L.** (2000). First steps toward a statistically generated information technology integration model. *Computers in the Schools*, 16(2), 3-12.
- Johnson, D. L., Maddux, C. D., & **Liu, L.** (2000). Integration of technology into the classroom: Case studies. *Computers in the Schools*, 16(2), p.1-3.
- Johnson, D. L., & **Liu, L.** (1999). Creative thinking in the use of information technology in educational research and statistics. *Computers in the Schools*, 15(3-4), p. 1-5.
- Liu, L.** , & Johnson, D. L. (1999). What influenced the quality of research: Findings from an editorial management database. *Computers in the Schools*, 15(3/4), 53-66.
- Fernandez, G. C. J., & **Liu, L.** (1999). A technology-based teaching model that stimulates statistics learning. *Computers in the Schools*, 16(1), 173-192.
- Liu, L.** , & Johnson, L. (1998). A computer achievement model: Computer attitude and computer achievement. *Computers in the Schools*, 14(3/4), 33-54.
- Liu, L.** , & Cummings, R. (1997). Logo and geometrical thinking: Concrete-abstract thinking and abstract-concrete thinking. *Computers in the Schools*, 14(1/2), 95-110.
- Johnson, L., & **Liu, L.** (1996). China and the Internet: Global questions about a global information infrastructure. *Computers in the Schools*, 12(1/2), 1-10.

*Books:*

- Liu, L.** , & Gibson, D. (2018, Eds.). *Research Highlights in Technology and Teacher Education*. Chesapeake, VA: AACE Publishing.
- Liu, L.** , & Gibson, D. (2017, Eds.). *Research Highlights in Technology and Teacher Education*. Chesapeake, VA: AACE Publishing.
- Liu, L.** , & Gibson, D. (2016, Eds.). *Research Highlights in Technology and Teacher Education*. Chesapeake, VA: AACE Publishing.
- Liu, L.** , & Gibson, D. (2015, Eds.). *Research Highlights in Technology and Teacher Education*. Chesapeake, VA: AACE Publishing.
- Liu, L.** , Gibson, D., & Maddux, C. (2014, Eds.). *Research Highlights in Technology and Teacher Education*. Chesapeake, VA: AACE Publishing.
- Liu, L.** , & Li, W. (2014). *Technology Essentials for Digital Learners*. Boston, MA: Pearson.
- Liu, L.** , & Li, W. (2014). *Integrating Emerging Technologies: and Instruction*. Boston, MA: Pearson.
- Liu, L.** , Gibson, D., & Maddux, C. (2013, Eds.). *Research Highlights in Technology and Teacher Education*. Chesapeake, VA: AACE Publishing.
- Liu, L.** , & Li, W. (2012). *Multimedia Technology for Standardized E-Portfolio (2nd ed.)*. Boston, MA: Pearson Publishing.



- Liu, L.** , & Li, W. (2012). *Fundamental Technology Skills for Teachers* (2nd ed.). Boston, MA: Pearson Publishing.
- Liu, L.** , & Li, W. (2011). *Multimedia Technology for Standardized E-Portfolio*. Boston, MA: Pearson Publishing.
- Liu, L.** , & Li, W. (2011). *Fundamental Technology Skills for Teachers*. Boston, MA: Pearson Publishing.
- Liu, L.** (2009). *Multimedia Applications and E-Portfolio Development*. Boston, MA: Pearson Publishing.
- Liu, L.** (2009). *Technology for Teaching and Learning*. Boston, MA: Pearson Publishing.
- Liu, L.** (2008). *Contemporary Technology for Educators: Application and Integration*. Boston, MA: Pearson Publishing.
- Liu, L.** (2005). *Applied Educational Technology: Practice and Creation*. Boston, MA: Pearson Publishing.
- Hinkle, D. E., **Liu, L.** , & Cox, J. R. (2003). *Applied Statistics for the Behavioral Sciences: Applying Statistical Concepts Workbook* (5th Ed.). Boston: Houghton Mifflin Co.
- Liu, L.** , Hinkle, D. E., & Jurs, S. G. (2003). *Applied Statistics for the Behavioral Sciences: Test Bank and Solutions Manual* (5th Ed.). Boston: Houghton Mifflin Co.
- Liu, L.** (2002). *Contemporary Educational Computing* (2nd Ed.). North Chelmsford, MA: Erudition Books.
- Liu, L.** , Johnson, L., Maddux, C., & Henderson, N. (2002, Eds.) *Evaluation and Assessment in Educational Information Technology*. New York: Haworth.
- Liu, L.** (2001). *Contemporary Educational Computing* (1st Ed.). North Chelmsford, MA: Erudition Books.
- Liu, L.** (2001). *Educational Computing*. Towson, MD: Towson University.
- Johnson, L., Maddux, C., & **Liu, L.** (2000, Eds.). *Integrating Information Technology into the Classroom: Case Studies*. New York: Haworth.
- Liu, L.** , Johnson, L., & Maddux, C. (1999, Eds.). *Information Technology in Educational Research and Statistics*. New York: Haworth.
- Johnson, L., Maddux, C., & **Liu, L.** (1997, Eds.). *Using Technology in the Classroom*. New York: Haworth.

*Refereed Book Chapters:*

- Li, W., & **Liu, L.** (2012). An exploratory study for the experiences of older non-traditional students in an online learning environment. In V. Wang (Ed.), *Handbook of Research on Technologies for Improving the 21st Century Workforce: Tools for Lifelong Learning* (pp. 373-386). Hershey, PA: IGI Global.
- Maddux, C. D., Li, W. & **Liu, L.** (2012). Blended learning in teacher education: A content analysis of related literature. In P. Resta (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2012* (pp. 619-624). Chesapeake, VA: AACE.
- Liu, L.** , Li, W. & Maddux, C. (2012). Prepare teacher education students to use cloud resources: Evaluation, design, and integration. In P. Resta (Ed.), *Proceedings of Society for Information*

Technology & Teacher Education International Conference 2012 (pp. 2931-2938). Chesapeake, VA: AACE.

Maddux, C., **Liu, L.**, Li, W., & Sexton, J. (2011). The semantic web: Reviewing its potential in teacher education and a concept analysis of related educational literature. In C. Maddux et al. (Eds.), *Research Highlights in Technology and Teacher Education* (pp. 229-236). Chesapeake, VA: AACE.

Li, W., & **Liu, L.**, (2011). The effects of the instructional video on pre-service teachers' technology learning in an online environment. In V. Wang, (ed.), *Encyclopedia of E-Leadership, counseling and Training* (pp. 656-665). Hershey, PA: IGI Global.

Moran, J., & **Liu, L.** (2011). Criteria contributing to high quality teaching. In V. Wang, (ed.), *Encyclopedia of E-Leadership, counseling and Training*(pp.601-615). Hershey, PA: IGI Global.

**Liu, L.**, & D'Andrea, L. (2010). Initial stages to create online graduate communities: Assessment and development. In V. Wang, (ed.), *Encyclopedia of information communication technologies and adult education integration* (pp. 911-926). Hershey, PA: IGI Global.

**Liu, L.** (2009). A model of modeling in research and practice: Technology integration and online career counseling. In V. Wang (Ed.), *Handbook of Research on E-Learning Applications for Career and Technical Education: Technologies for Vocational Training* (pp. 603-616). Hershey, PA: IGI Global.

**Liu, L.** (2009). A cross sample analysis: To examine the predictive validity of an instrument. In V. Wang (Ed.), *Handbook of Research on E-Learning Applications for Career and Technical Education: Technologies for Vocational Training* (pp. 550-563). Hershey, PA: IGI Global.

**Liu, L.** (2006). Quality of online learning applications: Impact on student enjoyment, motivation, and anxiety. In L. A. Tomei (Ed.), *Advanced Topics in Information and Communication Technology Education* (pp.327-346), Hershey, PA: Idea Group Publishing.

**Liu, L.**, & Abney, P. (2005). Integrating interactive video technology into counseling skill training. In M.O. Thirunarayanan (Ed.), *Integrating Technology in Higher Education* (pp. 91-106). Lanham, MD: University Press of America.

Hinkle, D. E., & **Liu, L.** (2003). *Statistics in Psychology*. In Nevid, J. S. (2003). *Psychology: Concepts and Applications*. Boston: Houghton Mifflin Co.

**Liu, L.**, & Hinkle, D. E. (2003). Appendix: SPSS Procedures for Chapter Examples; SPSS output Tables in Chapters. For: Hinkle, D. E., Wiersma, W., & Jurs, S. G. (2003). *Applied Statistics for the Behavioral Sciences* (5th Ed.). Boston: Houghton Mifflin Co.

Journal Editing (as editor-in-chief and guest editor):

**Liu, L.**, Lee, A., & Li, W. (2015, Eds.). *Flipped Learning*. A special issue of *Computers in the Schools*. London, England: Taylor & Francis. (Special theme issue guest editor)

**Liu, L.**, Sadera, W., Li, Q., & Song, L. (2013, Eds.). *Gaming in Education*. A special issue of *Computers in the Schools*. London, England: Taylor & Francis. (Special theme issue guest editor)

Edited sixteen Issues of the *International Journal of Technology in Teaching and Learning* (2004 – Current, editor-in-chief)

**Liu, L.** , Maddux, C., & Johnson, L. (2008, Eds.). Instrument and Measurement to Assess Information Technology Integration. *Computers in the Schools*, 25(1-2). New York: Haworth. (Special theme issue guest editor)

Maddux, C., **Liu, L.** , & Johnson, L. (2008, Eds.). Web 2.0 in Education. *Computers in the Schools*, 25(3-4). New York: Haworth. (Special theme issue guest editor)

**Liu, L.** (2008). Using Web 2.0 in Teaching and Learning. *International Journal of Technology in Teaching and Learning*, 4(2). Jackson, MS: SICET. (Special theme issue guest editor)

*Web Publications:*

**Liu, L.** (2003~2018) Referred Website: Applied Statistics for the Behavioral Sciences: Data Analysis Procedures. Also published on the website of Houghton Mifflin Co. Current URL: <http://wolfweb.unr.edu/homepage/liu/stat/>

*Articles in Refereed Books/Proceedings*

**Liu, L.** , Chen, L., Li, W., Hanselman, K., & Zou, C. (2019). Online assessment of instructional videos: Using web conference and a content analysis tool. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2019* (Mar 18~22, 2019) pp. 484–491. Chesapeake, VA: AACE.

Chen, L., & **Liu, L.** (2019). Suggested methods of effect size estimation for research in information technology and teacher education. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2019* (Mar 18~22, 2019) pp. 1143–1151. Chesapeake, VA: AACE.

Hanselman, K., Zou, C., & **Liu, L.** (2019). Standards-based teacher education course design. In *Society for Information Technology & Teacher Education International Conference 2019* (Mar 18, 2019) pp. 833–838. Chesapeake, VA: AACE.

Li, W., **Liu, L.** , & Wang, P. (2018). Evaluating the quality of instructional videos using a data visualization Tool. *Society for Information Technology & Teacher Education International Conference 2018* (Mar 26, 2018) pp. 963–970. Chesapeake, VA: AACE.

Pugh, K. L. **Liu, L.** , & Wang, P. (2018). Technology integration in a K-12 frontier district. *Society for Information Technology & Teacher Education International Conference 2018* (Mar 26, 2018) pp. 2117–2122. Chesapeake, VA: AACE.

**Liu, L.** , Chen, L., Li, W., Zou, C., & Pugh, K. (2018). Conducting web conferences to verify student identify and assess learning outcomes in online courses. *Society for Information Technology & Teacher Education International Conference 2018* (Mar 26, 2018) pp. 208–213. Chesapeake, VA: AACE.

**Liu, L.** , Li, W., & Dini, D. (2017). Accessibility of Teacher Education Online Courses: Design and Assessment with a UDL Infused Technology Integration Model. In *Society for Information Technology & Teacher Education International Conference 2017*, pp. 2521-2528. Chesapeake, VA: AACE.

- Lee, A., & **Liu, L.** (2017). Student Perceptions about Using Second Life in Online Communication: A Case Study. In Society for Information Technology & Teacher Education International Conference 2017, pp. 1689-1694. Chesapeake, VA: AACE.
- Dini, D., & **Liu, L.** (2017). Developing Storybooks without Words for Character Education: A Unique Use of Augmented Reality for Student Learning and Product Development. In Society for Information Technology & Teacher Education International Conference 2017, pp. 340–343. Chesapeake, VA: AACE.
- Liu, L.** , & Lee, A. (2013). Exploring the effective use of cloud resources in online classes. In World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2013 Proceedings (pp. 1235-1242). Chesapeake, VA: AACE.
- Lee, A. Li, W., & **Liu, L.** (2013). Use of interactive whiteboards with ActiveInspire. In World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2013 Proceedings (pp. 1222-1227). Chesapeake, VA: AACE.
- Liu, L.** (2012). Use cloud resources as collaborative media for teaching: Evaluation and design. In Ed-Media International Conference Proceedings, 2012 (pp. 2171-2178). Chesapeake, VA: AACE.
- Lai, F., **Liu, L.** , Kiger, S., & Thacker, D. (2012). Online peer collaboration. Panel at Ed-Media International Conference 2012 (pp. 1686-1687). Chesapeake, VA: AACE.
- Maddux, C.D., Li, W. & **Liu, L.** (2012). Blended learning in teacher education: A content analysis of related literature. In P. Resta (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference 2012 (pp. 619-624). Chesapeake, VA: AACE.
- Liu, L.** , Li, W. & Maddux, C. (2012). Prepare teacher education students to use cloud resources: Evaluation, design, and integration. In P. Resta (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference 2012 (pp. 2931-2938). Chesapeake, VA: AACE.
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- Liu, L.** , Chen, L., Li, W., Hanselman, K., & Zou, C. (2019). Online assessment of instructional videos: Using web conference and a content analysis tool. Presented at Society for Information Technology & Teacher Education International Conference 2019. Las Vegas, NV, March 18~22, 2019.
- Chen, L., & **Liu, L.** (2019). Suggested methods of effect size estimation for research in information technology and teacher education. Presented at Society for Information Technology & Teacher Education International Conference 2019. . Las Vegas, NV, March 18~22, 2019.
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- Liu, L.** (2019). Effect size: Initial results from a critical review on 1424 statistics tests. Keynote speaker at Research Forum of Tsinghua University, Beijing, China, June, 27, 2019.
- Liu, L.** (2019). Testing of the model of dynamic instructional design. Keynote Talk at Research Forum of Southwest Univerisy, China, May, 18, 2019.

- Liu, L.** (2019). Insight of artificial intelligence in education: Research and practice. Keynote Talk at Research Forum of Southwest University, China, May, 20, 2019.
- Liu, L.** (2019). Inspiring to write and publish high quality research: Issues, tips, cautions and technology tools. Presented at AECT (Association for Educational Communications & Technology)/SICET, Annual Conference, Las Vegas, NV, October 23, 2019.
- Liu, L.**, Han, X., & Lin, L. (2019). Meet the editors. Panel hosted at Presented at AECT (Association for Educational Communications & Technology)/SICET, Annual Conference, Las Vegas, NV, October 22, 2019.
- Liu, L.** (2019). Issue in current education technology research: Effect size, power analysis, types of design and data. Presented at the international conference of Educational Innovation through Technology (EITT) 2019, Biloxi, MS, October 28, 2019.
- Liu, L.** (2018). Integration of artificial intelligence in education: From the perspectives of teachers and researchers. Keynote speaker at International Conference of Applied Artificial Intelligence in Education: 2018 Three Gorges Forum of US-China Smart Education. Chongqing, China, November 21-24, 2018.
- Liu, L.** (2018). A model of dynamic instructional design for dynamic learning and assessment. Keynote speaker at Research Forum of Southwest University, Chongqing, China, November 20, 2018.
- Liu, L.** (2018). A dynamic model of instructional design: Dynamic assessment and prediction. Keynote speaker at Research Forum of Tsinghua University, Beijing, China, November, 30, 2018.
- Lee, A., & **Liu, L.** (2018). Does migration between LMS platforms impact master-level students' success: A evaluation of program change. Paper presented at E-Learning 2018. Las Vegas, NV, October 15-18.
- Liu, L.**, Gibson, D. (2018). A model of dynamic instructional design and dynamic assessment: Applied in teacher education online courses. Panel leader at Society for Information Technology & Teacher Education International Conference 2018 (Washington DC, Mar 26, 2018).
- Li, W., **Liu, L.**, & Wang, P. (2018). Evaluating the quality of instructional videos using a data visualization Tool. Presented at Society for Information Technology & Teacher Education International Conference 2018 (Washington DC, Mar 26, 2018).
- Pugh, K. L. **Liu, L.**, & Wang, P. (2018). Technology integration in a K-12 frontier district. Presented at Society for Information Technology & Teacher Education International Conference 2018 (Washington DC, Mar 26, 2018).
- Liu, L.**, Chen, L., Li, W., Zou, C., & Pugh, K. (2018). Conducting web conferences to verify student identify and assess learning outcomes in online courses. Presented at Society for Information Technology & Teacher Education International Conference 2018 (Washington DC, Mar 26, 2018).
- Liu, L.** (2017). An Initial Model of Dynamic Instructional Design and Learning Analytics: The Power of Dynamic Assessment and Prediction. Keynote Speaker at The Association for Educational Communications and Technology (AECT), November 8-11, Jacksonville, FL.

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- Dini, D., & **Liu, L.** (2017). Creating Textless Storybooks with Aurasma: A Unique Use of Augmented Reality for Student Learning and Product Development. Poster presented at SITE (Society of Information Technology in Education) 2017, Austin, TX, March 5-9, 2017.
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- Liu, L.** (2015). Harnessing the power of concurrent technology: Data science and assessment. Keynote speaker at EITT (International Conference of Educational Innovation through Technology) 2015, Wuhan, China. October 18, 2015.
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- Liu, L.** (2012). Use cloud resources as collaborative media for teaching: Evaluation and design. Paper at Ed-Media International Conference 2012. Denver, CO.
- Lai, F., **Liu, L.**, Kiger, S., & Thacker, D. (2012). Online peer collaboration. Panel at Ed-Media International Conference 2012. Denver, CO.
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- Li, W., & **Liu, L.** (2011). Effect of the instructional video on students' online learning. Paper presented at an international conference: SITE (Society for Information Technology and Teacher Education), Nashville, TN March 7-11, 2011.
- Maddux, C., **Liu, L.**, Li, W., & Sexton, J. (2011). The semantic web: Reviewing its potential in teacher education and a concept analysis of related educational literature. Paper presented at an international conference: SITE (Society for Information Technology and Teacher Education), Nashville, TN March 7-11, 2011.
- Maddux, C., & **Liu, L.** (2011). Editorial Panel. Presented Computers in the Schools, and International Journal of Technology in Teaching and Learning at an international conference: SITE (Society for Information Technology and Teacher Education), Nashville, TN March 7-11, 2011.
- Liu, L.**, D'Andrea, L., Harrison, T. (2011). Online Program Assessment: Procedures, tips and issues. Presents at Northern Nevada, Assessment Conference. February 4, Reno, Nevada.
- Liu, L.** (2010). Prepare pre-service teachers to teach online: Design and implementation. Presented at Critical Questions in Education Conference, Chicago, IL, November 7-9, 2010.
- Liu, L.**, Lai, F., Yuan, S., Kiger, S., and Thacker, D. (2010). Key factors to successful online programs. Presented at Critical Questions in Education Conference, Chicago, IL, November 7-9, 2010.

- Liu, L.** , D'Andrea, L., & Maddux C. (2010). An online course in assessing technology integration: Design, implementation, and issues. Paper presented at: SITE (Society for Information Technology and Teacher Education), San Diego, CA, March 29 – April 2, 2010.
- Lai, F. Q., **Liu, L.** , Kiger, S., Jones, & M., Yuen, S. (2010). Key factors to a successful online program. Panel speaker at: SITE (Society for Information Technology and Teacher Education), San Diego, CA, March 29 – April 2, 2010.
- D'Andrea, L., **Liu, L.** , & Hodgen, C. (2010). Keeping education students connected: An online doctoral student network. Poster presented at: SITE (Society for Information Technology and Teacher Education), San Diego, CA, March 29 – April 2, 2010.
- Maddux, C., **Liu, L.** , & Cummings, R. (2010). A totally online university class in statistics for teachers: Aids and cautions. Paper presented at: SITE (Society for Information Technology and Teacher Education), San Diego, CA, March 29 – April 2, 2010.
- Liu, L.** (2010). Assessment of Online Master Programs: Procedures, Management, and Outcomes. Paper presented at: SITE (Society for Information Technology and Teacher Education), San Diego, CA, March 29 – April 2, 2010.
- Richmond, A. S., Conrad, L., & **Liu, L.** (2009). An investigation of thinking styles in online education. Presented at NRMERA (Northern Rocky Mountain Educational Research Association) 27th Annual Conference. Jackson Hole, Wyoming, October, 2009.
- Liu, L.** (2009). Online communications and student online learning: Motivation and performance. Hosted a roundtable discussion at: SITE (Society for Information Technology and Teacher Education), Charleston, SC, March 2-6, 2009.
- Liu, L.** , D'Andrea, L. (2009). Online program advisory and assessment: Strategies and tips. Paper presented at: SITE (Society for Information Technology and Teacher Education), Charleston, SC, March 2-6, 2009.
- Liu, L.** , Maddux, C. (2009). Online publishing: A new online journal on "Social Media in Education". Hosted a panel discussion at: SITE (Society for Information Technology and Teacher Education), Charleston, SC, March 2-6, 2009.
- D'Andrea, L., & **Liu, L.** (2009). The CACREP Standards: How much do students know? Presented at American Counseling Association Annual conference and Exposition, Charlotte, NC, March, 2009.
- Liu, L.** (2008). To teach "online-teaching" through an online course: Design and implementation. Presented at World Conference on E-Learn in Corporate, Government, Healthcare and Higher Education 2008. AACE. Las Vegas, USA, November 17-21 2008.
- Liu, L.** , & Gentile, T. (2008). Online Training to prepare counselors for online counseling: new strategies and tools. Presented at World Conference on E-Learn in Corporate, Government, Healthcare and Higher Education 2008. AACE. Las Vegas, USA, November 17-21 2008.

- Liu, L.** (2008). Online publishing in the digital age. Presented at World Conference on E-Learn in Corporate, Government, Healthcare and Higher Education 2008. AACE. Las Vegas, USA, November 17-21 2008.
- Gentile, T., & **Liu, L.** , (2008). Online counseling: Design, practice, and technology tools. Presented at 2008 National Assessment Conference (Association for Assessment in Counseling and Education), Dallas, TX, September 20, 2008.
- Liu, L.** , & Jones, P. (2008). Create Web-based multimedia learning applications: Ideas for Web 2.0 and e-learning 2.0. Hosted a roundtable session at ED-MEDIA (World Conference on Educational Multimedia, Hypermedia and Telecommunications), Vienna, Austria, June 30 – July 4, 2008.
- Liu, L.** , & Gentile, T. (2008). Video applications for online counseling: Design and Practice. Presented at ED-MEDIA (World Conference on Educational Multimedia, Hypermedia and Telecommunications), Vienna, Austria, June 30 – July 4, 2008.
- Liu, L.** (2008). Using research modeling methods to enhance teacher education students' practice in technology integration. Posted at: SITE (Society for Information Technology and Teacher Education), Las Vegas, NV, March 3-7, 2008.
- Liu, L.** , & Maddux, C. (2008). An online course to prepare school counselors for online career counseling. Presented at: SITE (Society for Information Technology and Teacher Education), Las Vegas, NV, March 3-7, 2008.
- Maddux, C., **Liu, L.** , Cummings, R., & Smaby, M. (2008). A totally online course in Web design for teachers: Presented at: SITE (Society for Information Technology and Teacher Education), Las Vegas, NV, March 3-7, 2008.
- Liu, L.** (2007). Modeling in Information Technology Research: A Model of Models. Presented at AECT (Association of Educational Communications and Technology), Anaheim, California, October 23-27, 2007.
- Liu, L.** (2007). Features of Online Publishing and a Model of Dynamic Research in Information Technology in Education. Presented at AECT (Association of Educational Communications and Technology), Anaheim, California, October 23-27, 2007.
- Liu, L.** (2007). A Synchronous Communication Tool for Online Learning: Strategies, Issues Outcomes. Posted at: SITE (Society for Information Technology and Teacher Education), San Antonio, Texas, March 26-30, 2007.
- Liu, L.** (2007). Design and Implementation of an Online Course in Counseling and Information Technology. Presented at: SITE (Society for Information Technology and Teacher Education), San Antonio, Texas, March 26-30, 2007.
- Liu, L.** (2007). Evaluating the Quality of Current Online CBI Applications for K-12 Learners. Hosted a roundtable discussion at: SITE (Society for Information Technology and Teacher Education), San Antonio, Texas, March 26-30, 2007.

- Yuen, S., & **Liu, L.** (2007). Publishing Papers in the International Journal of Technology in Teaching and Learning: Guidelines and Tips. Presented at: SITE (Society for Information Technology and Teacher Education), San Antonio, Texas, March 26-30, 2007.
- Liu, L.** , Aberasturi, S. M., Kongrith, K., Richmond, A., Jones, P. (2007). Publication Bias: An Examination of Published and Unpublished Research in an International Journal of Information Technology in Education. Hosted a Symposium at EERA (Eastern Educational Research Association) annual conference, Clearwater, FL, February, 14-17, 2007.
- Jones, P., **Liu, L.** , & Sadera, W. (2007). Instructional Practices and Experienced Teachers. Presented at EERA (Eastern Educational Research Association) annual conference, Clearwater, FL, February, 14-17, 2007.
- Liu, L.** , & Liu, Y. (2006). Digital video editing in school counseling training: design and practice. Poster at the annual conference of the Association of Educational Communications and Technology, Dallas, Texas, October 10-14, 2006.
- Liu, L.** , & Liu, Y. (2006). Online course design and a research agenda. Presentation at the annual conference of the Society of International Chinese Educational Technology, Dallas, Texas, October 10-14, 2006.
- Liu, L.** , Yuen, S., & Lai, F. (2006). Trends and issues of research and publishing in the field of information technology in education. Presentation at the annual conference of the Society of International Chinese Educational Technology, Dallas, Texas, October 10-14, 2006.
- Liu, L.** , & Liu, Y. (2006). Design of image-based instructional applications. Presented at: SITE (Society for Information Technology and Teacher Education), Orlando, FL, March 20-24, 2006.
- Liu, L.** , Maddux, C., Smaby, M., & Liu, Y. (2006). Integrate digital video technology into school counseling training. Posted at: SITE (Society for Information Technology and Teacher Education), Orlando, FL, March 20-24, 2006.
- Velasquez-Bryant, N., **Liu, L.** , Richmond, A., & Liu, Y. (2006). Writing to publish in the field of information technology in education. A roundtable discussion (at: SITE (Society for Information Technology and Teacher Education), Orlando, FL, March 20-24, 2006.
- Liu, L.** , & Liu, Y. (2006). Communication Design and team building in teacher education Web based courses. Presented at SITE (Society for Information Technology and Teacher Education), Orlando, FL, March 20-24, 2006.
- Lai, F., **Liu, L.** , & Yuan, S. (2005). Research and writing to publish in information technology journals. Presented at Annual Conference of Society of International Chinese in Educational Technology/Association for Educational Communications and Technology, Orlando, Florida, October 20-21, 2005.
- Richmond, A. S., Krank, M. H., & **Liu, L.** (October, 2005). Are online distance education students judicial, legislative or executive thinkers? Paper presented at the Northern Rocky Mountain Educational Research Association, Jackson Hole, Wyoming.



- Liu, L.** (2005). Communication Design and Student Online Learning. Posted at the International Conference on Education, Hawaii, January 4 -7, 2005.
- Liu, L.** (2005). Quality and Usability of Online Applications. Posted at the International Conference on Education, Hawaii, January 4 -7, 2005.
- Lucero, C., & **Liu, L.** (2005). Development of Technology in Graphic Design. Presented at the Society of Information Technology in Education International Annual Conference, Phoenix, AZ, March 1-5, 2005.
- Liu, L.** , Richmond, A. (2005). Project Based Learning in Information Technology Courses. Presented at the Society of Information Technology in Education International Annual Conference, Phoenix, AZ, March 1-5, 2005.
- Richmond, A., & **Liu, L.** (2005). Student Learning Styles, Online Distance Education and Traditional Education. Presented at the Society of Information Technology in Education International Annual Conference, Phoenix, AZ, March 1-5, 2005.
- Ozdemir, S., Cantrell, P., & **Liu, L.** (2005). The Young Scientists Lab: Using Technology in Science Education. Presented at the Society of Information Technology in Education International Annual Conference, Phoenix, AZ, March 1-5, 2005.
- Yuen, S., **Liu, L.** , Lai, F., & Liang, G. (2005). Writing for International Journal of Technology in Teaching and Learning. Presented at the Society of Information Technology in Education International Annual Conference, Phoenix, AZ, March 1-5, 2005.
- Liu, L.** , Maddux, C., Abney, P., & Kongrith, K. (2004). Creating interactive video for counseling skill training. Presented at ED-MEDIA World Conference on Educational Multimedia, Hypermedia and Telecommunications, Lugano, Switzerland, June 21-26, 2004.
- Aberasturi, S., Kongrith, K., **Liu, L.** , & Maddux, C. (2004). The effect of an online organizational tool on junior high students' grades. Presented at ED-MEDIA World Conference on Educational Multimedia, Hypermedia and Telecommunications, Lugano, Switzerland, June 21-26, 2004.
- Liu, L.** , & Johnson, L. (2004). Static and Dynamic Design in Online Course Development. Paper presented at the International Conference of SITE (Society for Information Technology and Teacher Education), Atlanta, Georgia, March 1-6, 2004.
- Liu, L.** , Cummings, R., & Richmond, A. (2004). Establishing an Online Academic Portrait through Program Assessment. Paper presented at the International Conference of SITE (Society for Information Technology and Teacher Education), Atlanta, Georgia, March 1-6, 2004.
- Johnson, L., **Liu, L.** , & Cheney, C. (2004). An Approach to Improving Learning Through Authentic Project Development. Paper presented at the International Conference of SITE (Society for Information Technology and Teacher Education), Atlanta, Georgia, March 1-6, 2004.
- Richmond, A., & **Liu, L.** (2004). Notes from the Field: Using the Three-Dimensional Information, Technology, and Instructional Design (ITD) Model to Analyze Communication Effectiveness in Online Distance Education. Paper presented at the International Conference of SITE (Society for Information Technology and Teacher Education), Atlanta, Georgia, March 1-6, 2004.

- Liu, L.** , & Jones, P. (2004). Online communication design and students' motivation. Paper presented at EERA (The Eastern Educational Research Association) 27th Conference. Clearwater, Florida, February 12-12, 2004.
- Jones, P., **Liu, L.** , & Wall, B. (2004). Pre-service teachers' skills and measures of achievement. Paper presented at EERA (The Eastern Educational Research Association) 27th Conference. Clearwater, Florida, February 12-12, 2004.
- Liu, L.** (2003). Communication design for online courses: Effects of a multi-layer approach. Paper presented at: World Conference on E-Learn in Corporate, Government, Healthcare and Higher Education 2003. AACE. Phoenix, Arizona USA, November 7-11 2003.
- Liu, L.** , & Maddux, C. (2003). What was effective is not always effective: Online course design and research. Paper presented at: World Conference on E-Learn in Corporate, Government, Healthcare and Higher Education 2003. AACE. Phoenix, Arizona USA, November 7-11 2003.
- Jones, P., Wall, R., & **Liu, L.** (2003) Technology achievement and attitudes of pre-service teachers. Paper presented at: World Conference on E-Learn in Corporate, Government, Healthcare and Higher Education 2003. AACE. Phoenix, Arizona USA, November 7-11 2003.
- Liu, L.** (2003). Using SAS in educational research. Paper presented at: WUSS Conference (Western Users of SAS Software), San Francisco, California USA, November 3-7.
- Liu, L.** , & Johnson, L. (2003). A new approach of design: Technology integration as information system development. Presented at: SITE (Society for Information Technology and Teacher Education), Albuquerque, NM, March 28, 2003.
- Liu, L.** , & Johnson, L. (2003). Structure-based versus function-based method in multimedia courseware design. Presented at: SITE (Society for Information Technology and Teacher Education), Albuquerque, NM, March 29, 2003.
- Johnson, L., & **Liu, L.** (2003). The "fine art" of the peer critique in project-based courses. Presented at: SITE (Society for Information Technology and Teacher Education), Albuquerque, NM, March 29, 2003.
- Liu, L.** , & Johnson, L. (2003). Technology portfolio as the tool to organize and assess students' learning of information technology. Poster-presented at: Hawaii International Conference on Education, Honolulu, Hawaii, January 8, 2003.
- Liu, L.** , & Johnson, L. (2003). A technology integration model and weak areas. Poster-presented at: Hawaii International Conference on Education, Honolulu, Hawaii, January 8, 2003.
- Jones, P., **Liu, L.** , & Wall, R. (2003). Preservice teachers' skill, attitudes and technology achievement. Presented at the annual meeting of the Eastern Educational Research Association, February 26 – March 1, 2003.
- Jones, P., Wall, R., & **Liu, L.** (2003). Preservice teachers' personality types and computer achievement. Poster-presented at: Hawaii International Conference on Education, Honolulu, Hawaii, January 8, 2003.

- Liu, L.** (2002). Integrating Technology into Reading Instruction: A New Course Development and Implementation. Presented at SITE (Society for Information Technology & Teacher Education), Nashville, TN, March, 19, 2002.
- Liu, L.** (2002). Designing, Implementing and Maintaining a Web Site: Issues and Technique Tips. Presented at SITE (Society for Information Technology & Teacher Education), Nashville, TN, March, 21, 2002.
- Johnson, D., & **Liu, L.** (2002). Web Based Instruction: What Does It Mean and How Do We Do It. Roundtable discussion at SITE (Society for Information Technology & Teacher Education), Nashville, TN, March, 21, 2002.
- Ayersman, D. J., **Liu, L.**, Overbaugh, R. C., Perkins, R., Takacs, J. (2002). Research and Instructional Technology. Symposium at EERA (Eastern Educational Research Association) annual conference, Sarasota, FL, February, 28, 2002.
- Liu, L.**, & Jones Paul. (2002). External Variables that Influence Student Computer Attitude and Achievement. Presented at EERA (Eastern Educational Research Association) annual conference, Sarasota, FL, March 2, 2002.
- Liu, L.** (2002). Educational Technology. Section Discussant, at EERA (Eastern Educational Research Association) annual conference, Sarasota, FL, March 2, 2002.
- Liu, L.** (2001). Data Analysis on the Components of Multimedia Courseware Design. Presented at: WUSS Conference (Western Users of SAS Software), San Francisco, CA, September, 2001.
- Liu, L.** (2001). Using SAS to Assess Students Learning in Instructional Technology Courses. Presented at: WUSS Conference (Western Users of SAS Software), San Francisco, CA, September, 2001.
- Liu, L.** (2001). On-line delivery of multimedia courseware: Issues and effects. Presented at: SITE (Society for Information Technology and Teacher Education), Orlando, FL, March, 2001.
- Liu, L.**, & Cheeks, C. (2001). Assessing technology-assisted use of information. Presented at: SITE (Society for Information Technology and Teacher Education), Orlando, FL, March, 2001.
- Zhang, J. Y., **Liu, L.** (2001). An On-Line Math Problem Solving Program that Stimulates Mathematical Thinking. Presented at: SITE (Society for Information Technology and Teacher Education), Orlando, FL, March, 2001.
- Johnson, D. L., & **Liu, L.** (2001). Current Issues and Trends in Assessing the Use of Information Technology in Education. Host of Roundtable discussion session, at: SITE (Society for Information Technology and Teacher Education), Orlando, FL, March, 2001.
- Liu, L.** (2000). Critically evaluating the quality of Web information. Presented at MAEUC (Maryland Association for the Educational Uses of Computers) Forum 2000. Towson, MD, October, 2000.
- Liu, L.** (2000). Different methods of structuring and storyboarding in multimedia courseware design. Presented at MAEUC (Maryland Association for the Educational Uses of Computers) Forum 2000. Towson, MD, October, 2000.

- Liu, L.** (2000). A model of integrating technology into classrooms: A logistic regression analysis. Presented at: WUSS Conference (Western Users of SAS Software), Scottsdale, AZ, September, 2000.
- Liu, L.** (2000). A repeated measurement on analyzing the qualities of information from different Web sources. Presented at: WUSS Conference (Western Users of SAS Software), Scottsdale, AZ, September, 2000.
- Liu, L.** (2000). PCLogo and Mathematical Thinking Processes. Presented at M/SET (Mathematics/Science Education and Technology) 2000 International Conference, at San Diego, CA, February 5-8, 2000.
- Liu, L.** (2000). Different Storyboarding Methods in Multimedia Courseware Design. Presented at SITE (Society for Information Technology and Teacher Education) International Conference 2000, at San Diego, CA, February 8-12, 2000.
- Liu, L.** (2000). IntraNet Management in Technology Classes. Presented at SITE (Society for Information Technology and Teacher Education) International Conference 2000, at San Diego, CA, February 8-12, 2000.
- Johnson, L., & **Liu, L.** (2000). Towards a model for infusing information technology in the classroom. Roundtable Discussion at SITE (Society for Information Technology and Teacher Education) International Conference 2000, at San Diego, CA, February 8-12, 2000.
- Liu, L.** (1999). A Logistic Regression on the Qualities of Educational Research: Characteristics of Publishable Articles. Presented at WUSS National Conference (Western Users of SAS Software), Los Angeles, CA, October 1999.
- Liu, L.** (1999). Combining SAS Data Sets in Educational Research. Presented at WUSS National Conference (Western Users of SAS Software), Los Angeles, CA, October 1999.
- Liu, L.** (1999). Different Approaches of System-Planning in Multimedia Courseware Design. SITE International Conference 99, San Antonio, TX, Feb. 28 – Mar. 4, 1999.
- Liu, L.** (1999). The Influence of Different Teaching Methods on Student Attitudes Toward Technology. SITE International Conference 99, San Antonio, TX, Feb. 28 – Mar. 4, 1999.
- Liu, L.** (1999). Technology and Geometrical Concept Learning. M/SET (Mathematics/Science Education and Technology) 99 International Conference, San Antonio, TX, Feb. 28 – Mar. 4, 1999.
- Liu, L.** (1998). Multiple Regression and Model Selection on Developing a Computer Achievement Model. WUSS Conference (Western Users of SAS Software), Oakland, CA, October 14-16, 1998.
- Johnson, L., & **Liu, L.** (1998). Considering Student Attitude about Information Technology in Planning Education Courses. The Ninth SITE International Conference, Washington DC, March, 1998.
- Liu, L.** , & Johnson, L. (1998). Different Attitudes between Chinese and American Students toward Computer Technology. The Ninth SITE International Conference, Washington DC, March, 1998.
- Liu, L.** , & Fernandez, G. (1997). A Repeated Measures Analysis on Preservice Teachers' Attitudes toward Subjects Taught in School. WUSS Conference (Western Users of SAS Software), Los Angeles, CA, October, 1997.

Keynote, Invited Guest Speaker Internationally:

- Liu, L.** (2018). Integration of artificial intelligence in education: From the perspectives of teachers and researchers. Keynote Speaker, at International Conference of Applied Artificial Intelligence in Education: 2018 Three Gorges Forum of US-China Smart Education. Chongqing, P. R. China. Nov. 2018
- Liu, L.** (2018). A dynamic model of instructional design: Dynamic assessment and prediction. Invited Speaker at Research Forum of Tsinghua University, Beijing, P. R. China. Nov. 2018.
- Liu, L.** (2018). A model of dynamic instructional design for dynamic learning and assessment. Invited Speaker at Research Forum of Southwest University, Chongqing, P. R. China. Nov. 2018.
- Liu, L.** (2017). An Initial Model of Dynamic Instructional Design and Learning Analytics: The Power of Dynamic Assessment and Prediction. Keynote Speaker at The Association for Educational Communications and Technology (AECT), November 8-11, Jacksonville, FL.
- Liu, L.** (2014, 2015, 2016). Research Design and Data Analysis in Educational Technology series, at Southwest University, ChongQing, P. R. China.
- Liu, L.** (2014, 2015, 2016). Trends of Research and Practice in Instructional Technology series, at Tsinghua University, Beijing, P. R. China.
- Liu, L.** (2014, 2015). Trends of Research and Instructional Design series, at WuHan Normal University, Wuhan, P. R. China.

Grant Related Activities:

- Liu, L.** Project Evaluator: NSF REU Grant by Shen, Y., Wan, S. et al., (2019). REU Site: Biomimetic and Soft Robotics (BioSoRo): from Biological Inspirations to Engineered Mechanisms. Awarded \$491,713.
- Liu, L.** Project Evaluator: NSF Grant by Wang, Y., et al. (2019). CAREER: Engineering Coherent Phonon Propagation and Anderson Localization towards Controlled Thermal Transport.
- Liu, L.** Project Evaluator: NSF Grant by Mathew, D. et al (2019) CAREER: Modulation of Olfactory Sensory Neurons by Starved-State in Drosophila Larvae.
- Liu, L.** Project Evaluator: NSF Grant by Yoon H. J., Shen, Y. et al ((2019). REU Site: Interdisciplinary Research Experience in Biomedical Devices.
- Liu, L.** Project Evaluator: NSF EPSCoR Grant by: Kwang Kim, Yantao Shen, & Markus Berli. (2018). Nevada Biomimetic and Soft Robotics (BioSoRo) Consortium. \$16 Million.
- Liu, L.** Project Evaluator: NSF Grant by: Shan, W. et al. (2018). Career: Design of New Generation Rigidity Tunable Materials for Soft Robotics Applications
- Liu, L.** Statistitian: Nevada State Grant with: Lamberg, T. et al. (2018). Nevada, mathematics education collaborative, \$383,031.
- Liu, L.** Evaluator: NSF Grant by: Zhu, X. et al. (2018). Time-Gated Fluorescence Lateral Flow Immunoassay for Melioidosis Diagnosis, \$300,000.

**Liu, L.** (PI), Chen, L., & Zhu, X. (2017). IDE: Biomedical Engineering and STEM Education Doctoral Research Collaboration, \$377,325.00 (2018-2021), NSF 17-585. Grant writing, submitted. Pending.

**Liu, L.** Project Evaluator: NSF 17-542 Grant by: Shan, W. & Shen, Y. (2017). REU Site: Biomimetic and Soft Robotics: Materials, Mechanics, and Mechanisms. \$334,091.00. Pending

**Liu, L.** Project Evaluator: NSF Grant by: Parvin, B. (2017). Multiplexed printed Buckyballs for microbial identification. Pending

**Liu, L.** Project Evaluator: NSF17-529 Grant by: Yuksel, M., Kapucu, N., Turgut, D., Wang, W., & Zhu, X. (2017). CPS: Medium: Collaborative Research: IoT-Based Community Stress Maps for Public Safety. \$825,000.00. Pending

Shen, Y., other PIs, & **Liu, L.** (2014~2019). CAREER: Adaptive Electro-Braille: A New Tactile Sensory Substitution and Assistive Technology for the Blind and Visually Impaired. NSF grant: CBBET-1352006, awarded \$418,802, from 2014 to 2019. Working as Evaluator.

Grant writing. (2016). NSF EPSCoR – Crowdsourcing and Environmental Research: Novel sensors, citizen science, and advanced analytics for environmental sustainability and decision-making in Nevada (2016). \$20 Million, NSF proposal by UNR, UNLV, and DIR. Particularly work on the Objective 5, Education and Workforce Development. As evaluator as well.

Parvin, B., Others, & **Liu, L.** (2016). Inference of the regulatory networks by modulating the stiffness of the microenvironment in 3D cultures of Human Mammary Epithelial Cells. \$400,000. NSF proposal. Pending. As evaluator.

Parvin, B., Others, & **Liu, L.** (2016). Array-based technology for identification microorganisms. \$400,000. NSF proposal. Pending. As evaluator.

Participated grant writing. (2016). NSF EPSCoR – Crowdsourcing and Environmental Research. Submitted for review at the National Science Foundation.

Participated an NSF grant proposal writing. (2016). Inference of the regulatory networks by modulating the stiffness of the microenvironment in 3D cultures of Human Mammary Epithelial Cells. Submitted for review at the National Science Foundation.

Shen, Y., Zhu, X., & **Liu, L.** (2013). Designing and Launching Point-of-Care Medical Devices by Senior Biomedical Engineering Students at University of Nevada—Reno. &129,600. NIH proposal. Pending.

Zhu, X., **Liu, L.**, & Shen, Y. (2013). Building a Bridge to STEM Education through Biomedical Engineering Learning Experiences. \$449,720. NSF proposal. Pending.

Zhu, X., **Liu, L.** (Co-PI), & Shen, Y. (2010-2012). Preparing high school students for college biomedical engineering: Orientation and hands-on experiences. \$119,992 first year. funded by: Nevada System of Higher Education.

**Liu, L.** (2002~2010). Received the research grant from the College of Education Scholarly Activity Fund, EVERY YEAR.

- Fadali, S., **Liu, L.** , & Li. Q. (2009). Woman Engineering Students' Learning and Retention. NSF grant submitting.
- Thomas, D., Maddux, C., & **Liu, L.** (Co-Principal). (2008)). "Gateway Mathematics Project", Sponsored by DOED-OERI, Federal, \$949510.25 (grant submitting).
- Fadali, S., Handerson, N., **Liu, L.** (2005). Model of Academic Support and Professional Development for Success in Undergraduate Engineering Education (NSF grant submission)
- Cantrell, P., Velasques-Bryant, N. J, **Liu, L.** , & McKinlay, G. (2003-2005). Rural Teachers Teaching with Technology (RST3), Funded through No Child Left Behind Title II Part D—Nevada Department of Education, for \$503,000.
- Wizer, D., **Liu, L.** , Sadera, W., Wood, C., & Ryan, P. (2001-2004). Federal Grant Project: Preparing Tomorrow's Teachers to Use Technology Grant, from the State Department of Education, funded for \$330,000.
- Wizer, D., **Liu, L.** , Wood, C., & Ryan, P. (1999-2000). Federal Grant Project: Preparing Tomorrow's Teachers to Use Technology Grant, from the State Department of Education, funded for \$100,168.
- Liu, L.** , Arya, P. (1999-2000). Teaching Departmental Enhancement Grant from Towson University
- Liu, L.** (2000). Technology Fellow Grant from CIAT, Towson University.

## **SERVICES**

### *Institutional committee or board assignments:*

- Research and Grant Committee, University of Nevada, Reno (2018--)
- Professional Development Leave Committee, University of Nevada, Reno (2018 --)
- Service Learning Council, University of Nevada, Reno (2018 --2019)
- Interdisciplinary Gerontology Curriculum Committee, University of Nevada, Reno (2018 --2019 )
- Cultural Diversity Committee, University of Nevada, Reno (2016 - 2017)
- Core Curriculum Committee (CO7), University of Nevada, Reno (2016 - 2018)
- High Performance Computing for Research Committee, University of Nevada, Reno (2015 - present)
- Ad Hoc Committee of UNR Learning Management System Assessment, University of Nevada, Reno (2014-2015)
- Technology Council, University of Nevada, Reno, (2012 – present)
- UNR Technology Policy sub-committee (2012 – present)
- UNR E-learning sub-committee (2012—2013)
- Faculty Senate, College of Education, University of Nevada, Reno, 2019 –

CEP program coordinator, College of Education, University Of Nevada, Reno, 2019 –

COE Advisory Council, College of Education, University Of Nevada, Reno, 2019 --

Personal Committee, College of Education, University of Nevada, Reno, 2016 – present.

Doctoral Committee, College of Education, University of Nevada, Reno, 2011 – 2014, 2018 --

Leadership Council, College of Education, University of Nevada, Reno. 2010-2011.

Masters' curriculum review committee, College of Education, University of Nevada, Reno. (2010-).

University of Nevada, Reno. WebCampus Advisory Council (2008 --2017 )

University of Nevada, Reno, College of Education Scholarly Activities Pool Committee (2008-- )

University of Nevada, Reno, CEP Department, Ed. Psych. Program Coordinator (2007- )

University of Nevada, Reno, College of Education, Peer Institution Ad Hoc Committee (2005-)

University of Nevada, Reno, College of Education, CEP Department, Online Master Degree Program Director (2005-2016)

University of Nevada, Reno, Faculty Senate Institute for Innovation and Informatics Ad Hoc Review Committee (2004-2006)

University of Nevada, Reno, International Activities Committee (2004-2013)

University of Nevada, Reno, Social Behavioral Institutional Review Boards (2004-2007)

University of Nevada, Reno, Special Hearing Committee (2004-)

University of Nevada, Reno, College of Education, Graduate Study Committee (2004-)

University of Nevada, Reno, Search committee for the Instructional Designer position within Teaching & Learning Technologies (2004)

University of Nevada, Reno, College of Education, Senate Committee for Student Affairs (2003-)

University of Nevada, Reno, CEP Department, new faculty search committee (2003)

University of Nevada, Reno, CEP Department, Program Assessment (2002-2003)

University of Nevada, Reno, CEP Department, Program Admissions (2002-2003)

Towson University Assessment Council (March 2001- 2002)

Towson University Library and Instructional Technology Committee (1999-2002)

Towson University Curriculum Committee (Aug. 2000-2002)

Towson University Distributed Education Committee (Aug 2000-2002)

Towson University Course Syllabus Committee (Aug 2001-2002)

Towson University Task Force Committee (2001 – 2002)



Steering Committee of the Institute of Applied Cognition and Learning (March 2001-2002)

Towson University, the College of Education Research and Faculty Development Committee (Aug. 1998-2002, Chairperson, Aug. 1999-2002)

Towson University, the RSET Department ISTC program committee (Aug. 1998- 2002)

Towson University, the Instructional Technology EdD Program Development Committee (Aug. 2000 - 2002)

Professional and public service activities:

Instructional Design – for the online delivery of the comprehensive curriculum of Medical School, University of Nevada, Reno, 2012 –

Assessment Consulting – Washoe County School District assessment project. 2012 --

Statistics Consultant – Center of Research Design and Statistics, University of Nevada, Reno. (2006 -

Editor-in-Chief – Research Highlights in Technology and Teacher Education, SITE (2012 -- )

Editor-in-Chief – International Journal of Technology in Teaching and Learning, an online journal sponsored by the Society of International Chinese in Educational Technology (2004-- ).

Editorial board -- Innovate

Editorial board – Journal of Interactive Learning Research

Editorial board – Journal of Computers in Mathematics and Science Teaching

Editorial board – Computers in the Schools

Reviewer – American Educational Research Association (AERA) annual conference 2006.

Reviewer – Association for Educational Communications and Technology (AECT) annual conference 2005.

Reviewer – Society of International Chinese in Educational Technology (SICET) annual conference 2005.

Reviewer – Global Chinese Conference on Computers in Education, annual conference.

Reviewer -- American Educational Research Association, annual conference

External Dissertation Reviewer – Program Evaluation, Teaching and Learning Doctoral Program, University of North Dakota.

Grant Reviewer – Louisiana Board of Regents and NSF EPSCoR Grant

University of Nevada, Reno, CEP Department, Charitable Giving Campaign Coordinator (2004, 2005)

University of Nevada, Reno, COE representative at Washoe County Technology Workforce Development Academy (2003-)

Affiliate Faculty – The Institute of Applied Cognition and Learning, Towson University

Affiliate Faculty – The Center for Science and Mathematics Education, Towson University

Web course evaluator – Web-Based Coursepacks in Graduate Teacher Education. XanEdu.com, a division of Bell & Howell Information & Learning

Professional/Academic Membership:

Board member -- Consultative Council of Society of Information Technology and Teacher Education, Association of Advanced Computing in Education. (2012 --)

Officer of SICET (Society of International Chinese in Educational Technology), USA, 2003 --

Member of AERA (American Educational Research Association), USA, 2004 – Present

Member – National Technology Summit, USA (2002 – 2006)

Member of EERA (Eastern Educational Research Association), USA, 2001-Present

Member of AACE (Association for the Advancement of Computing in Education), USA, 1998-Present

Member of WUSS (Western Users of SAS Software), USA, 1997-Present

Member of AAUP (American Association of University Professors), USA, 1998-Present

PTA member of Peavine Elementary School, 2002-Present

PTA member of Rodgers Forge Elementary School, 1999-2002

Volunteer for Rodgers Forge Elementary School teaching second-grade computer class, 1999-2002.

Professional Development:

**Liu, L.** (2019). Certificate completion: Machine Learning Using SAS Viya in SAS Studio. 07-22~ 07-25, 2019.

**Liu, L.** (2019). Certificate completion: Deep Learning Using SAS Software . 07-22~ 07-25, 2019.

**Liu, L.** (2019). Certificate completion: Supervised Machine Learning Procedures Using SAS Viya in SAS Studio. 01-08, 2019.

**Liu, L.** (2019). Certificate completion: SAS Visual Data Mining and Machine Learning on SAS Viya: Interactive Machine Learning. 01-08, 2019, and 07-22, 2019

**Liu, L.** (2018). Certificate completion: Visual Analytics: Getting Started for Professors. 07-10-2018, Cary, NC

**Liu, L.** (2018). Certificate completion: Visual Statistics. 07-11-2018, Cary, NC.

**Liu, L.** (2018). Certificate completion: Applied Analytics Using SAS Enterprise Miner II. 01-09-2018, San Diego, CA.

**Liu, L.** (2018). Certificate completion: Survival Data Mining Using SAS Enterprise Miner. 01-11-2018, San Diego, CA.

**Liu, L.** (2017). Certificate completion: Applied Analytics Using SAS Enterprise Miner I. 07-12-2017, Cary, NC.

**Liu, L.** (2017). Certificate completion: Text Analytics Using SAS Text Miner. 07-14-2017, Cary, NC.

Awards:

**Outstanding Service Award (2019) In recognitions of outstanding Leadership & Service as Senior Book Editor of Research Highlights in Technology and Teacher Education.** By Society of Information Technology in Teacher Education (SITE/AACE).

**Outstanding Service Award (2018) In recognitions of outstanding Leadership & Service as Senior Book Editor of Research Highlights in Technology and Teacher Education.** By Society of Information Technology in Teacher Education (SITE/AACE).

**Outstanding Poster Award (2017).** By Society of Information Technology and Teacher Education 2017 conference.

**Outstanding Administrative Professional Award (2017).** By Society of International Chinese in Educational Technology.

**Special Contribution Award (2017).** By Society of International Chinese in Educational Technology.