

# FUCHANG LIU

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## EDUCATION

*University of Louisiana at Monroe*, 1993-99

Ed. D., Educational Leadership. Dissertation: A comparative study of selected perceptions of charter schools through the philosophical beliefs of educators, administrator, and policy makers in the state of Louisiana (May 1999)

M. Ed., Administration and Supervision

*Jilin University*, Changchun, China, 1985-87

M. A., Linguistics and Literature

*Liaocheng Teachers College*, Liaocheng, China, 1978-82

B. A., English

## PROFESSIONAL EXPERIENCE

*Associate Professor of Mathematics Education*, Wichita State University, 2011-

*Assistant Professor of Mathematics Education*, Wichita State University, 2005-11

Chair of Elementary Education program (2010-13, 2018- )

Supervise pre-student teaching and student teaching

Advise master's theses, portfolios, and doctoral dissertations

Courses taught: CI-319/519 Mathematical Investigations, CI-402 ISAM Elementary Mathematics, CI-411/411B Pre-Student Teaching Field Experience, CI-431A – D Seminars, CI-447 Student Teaching, CI-709AF Middle School Math Praxis Prep, CI-794 Diversity and Culture in a Global Society

*Mathematics Teacher*, Monroe City Schools, Monroe, LA, 1998-2005

Teacher of the Year (2001-02)

Chair of Mathematics Department (2004-05, 1999-2002)

Lead Teacher of the Magnet Program. Worked with teachers and administrators

Courses taught: Algebra I, Algebra II, Geometry, ACT (American College Testing)

Preparation, Advanced Mathematics, Trigonometry, and Calculus

*Mathematics Teacher*, Arlington Independent School District, Arlington, TX, 1997-98

*Assistant Professor*, Yantai Teachers College, Yantai, China. 1987-93

Supervised student teaching and advised theses

Courses taught include English, Reading, and Literature.

*English Teacher*, Laiyang Health School, Laiyang, China. 1982-85

## RECENT PUBLICATIONS – REFEREED JOURNALS

- Liu, F. (2018). Mental representation of fractions: It all depends on whether they are common or uncommon. *Quarterly Journal of Experimental Psychology*, 71(9), 1873-1886.
- Liu, F. (2016). Anxiety towards teaching mathematics and science: Correlation, prevalence, and intensity. *Journal of Mathematics Education*, 9, 29-46.
- Liu, F. (2013). Are exact calculation and computational estimation categorically different? *Applied Cognitive Psychology*, 27, 672-682.
- Liu, F., & Alagic, M. (2013). Changing preservice elementary teachers' perceptions of teaching and learning the metric system. *Journal of Mathematics Education*, 6, 1-16.
- Liu, F. (2011). Preservice teachers' perceptions of departmentalization of elementary schools. *International Journal of Whole Schooling*, 7(1), 40-52.
- Liu, F. (2009). Computational estimation strategies on whole-number multiplication by third- and fifth-grade Chinese students. *School Science and Mathematics*, 109, 325-337.
- Liu, F. (2009). Bufenke moshi zai Meiguo xiaoxue shuxue jiaoyu zhongde youshi yu biduan [Effects of nondepartmentalization on American elementary mathematics education]. *Chinese and Foreign Educational Research*, 33, 31-33.
- Liu, F. (2008). Impact of online discussions on elementary teacher candidates' anxiety towards teaching mathematics. *Education*, 128, 614-629.
- Calabrese, R. L., Patterson, J., **Liu, F.**, Goodvin, S., Hummel, C., & Nance, E. (2008). An appreciative inquiry into the Circle of Friends Program: The benefits of social inclusion of students with disabilities. *International Journal of Whole Schooling*, 4, 20-46.

## PUBLICATIONS – BOOK, BOOK CHAPTER, AND EDITED BOOK

- Liu, F. (2017). *Common mistakes in teaching elementary math – And how to avoid them*. New York, NY: Routledge.
- Alagic, M., Rimmington, G., **Liu, F.**, & Gibson, K. (Eds.). (2010). *Locating intercultures: Educating for global collaboration*. Delhi: Macmillan India.
- Liu, F. (2010). Understanding number words multiculturally: Deliberations from a teacher-preparation classroom. In M. Alagic, G. Rimmington, F. Liu, & K. Gibson, (Eds.). *Locating intercultures: Educating for global collaboration*. Delhi: Macmillan India.

## PRESENTATIONS (NATIONAL AND INTERNATIONAL)

- Liu, F. (August 2018). Common and Uncommon Fractions Are Mentally Represented Differently. Poster presented at American Psychological Association (APA) conference, San Francisco, CA.
- Liu, F. (August 2016). Exact Calculation and Computational Estimation Are Cognitively Different Processes. Poster presented at American Psychological Association (APA) conference, Denver, CO.
- Liu, F. (October, 2015). The Problem-Size Effect: An Effective Tool in Investigating Computational Estimation. Paper presented at School Science and Mathematics Association (SSMA) conference, Oklahoma City, OK.

- Liu, F. (November, 2014). Dealing with the magnitude of fractions effectively: Using benchmark numbers. Paper presented at School Science and Mathematics Association (SSMA) conference, Jacksonville, FL.
- Liu, F. (November, 2013). The distance effect: Incorporating research in teaching elementary mathematics. Paper presented at School Science and Mathematics Association (SSMA) conference, San Antonio, TX.
- Liu, F. (November, 2012). Mathematics anxiety and science anxiety as perceived by pre-service elementary teachers. Paper presented at School Science and Mathematics Association (SSMA) conference, Birmingham, AL.
- Bergman, D., Hussey, S., **Liu, F.**, Mason, K., Reed, C., Stinson, L., & Frederick, K. (March, 2011). Comparing and Contrasting the Urban PDS Experience at Elementary, Middle, and High Schools. Paper presented at the National Conference on Professional Development Schools, New Orleans, LA.
- Liu, F. (November, 2011). Anxiety towards teaching mathematics and science: Correlation, prevalence, and intensity. Paper presented at School Science and Mathematics Association (SSMA) conference, Colorado Springs, CO.
- Liu, F. (September, 2010). Foreign language acquisition in the context of global learning and multicultural communication. Paper presented at 7th International Conference on Intercultural Communication Competence (ICCC7), Khabarovsk, Russia.
- Liu, F. (October, 2009). Computational estimation performance by Chinese elementary students. Paper presented at School Science and Mathematics Association (SSMA) conference, Reno, NV.
- Calabrese, R. L., Patterson, J., **Liu, F.**, Goodvin, S., Hummel, C., & Nance, E. (April, 2009). A school/university appreciative inquiry partnership to examine the benefits of social inclusion of students with disabilities. Paper presented at American Educational Research Association (AERA) conference, San Diego, CA.
- Liu, F. (February, 2009). Taking a multicultural perspective in improving American elementary mathematics education. Paper presented at Association of Teacher Educators (ATE) conference, Dallas, TX.
- Liu, F. (June-July, 2008). Online discussion as an instructional tool. Paper presented at ED-MEDIA 2008: World Conference on Educational Multimedia, Hypermedia & Telecommunications, Vienna, Austria.
- Liu, F. (May, 2008). Understanding number words multiculturally: Deliberations from a teacher preparation classroom. Paper presented at 5th International Conference on Intercultural Communication Competence (ICCC5), Wichita, KS.

## **REVIEWS & EDITORIAL COMMITTEES**

*AACE E-Learning*. Reviewer.

*Frontiers in Psychology*. Reviewer.

*Journal of Mathematics and Arts*. Reviewer.

*School Science and Mathematics*. Reviewer.

International Conference on Intercultural Communication Competence.

Reviewer for its 2008 (ICCC5) and 2010 (ICCC7) Annual Conferences.

Proceedings Editorial Committee for its 2008 Annual Conference.

## **PROFESSIONAL ORGANIZATIONS**

American Psychological Association (APA).

School Science and Mathematics Association (SSMA).

Association of Teacher Educators (ATE).

Kansas Association of Teachers of Mathematics (KATM).

South Central Kansas Association of Teachers of Mathematics (SCKATM).

National Council of Teachers of Mathematics (NCTM).

KAPPA DELTA PI.