

Curriculum Vitae
Zhonghe Wu, Ph.D.
Adjunct Faculty
Department of Teacher Education
[Contact info redacted for online publication]

AREAS OF INTEREST

- Teacher education, specifically in pre- and in-service mathematics teachers' knowledge growth and change
- Assessment in mathematics education
- International comparison study of student mathematical achievement
- The use of technology in mathematics education
- Educational policy

EDUCATIONAL BACKGROUND

2004 Ph.D., Curriculum and Instruction - Mathematics Education, Texas A&M University, College Station, TX
DISSERTATION TITLE: The Study of Middle School Teachers' Understanding and Use of Mathematical Representation in Relationship to *Teachers' Zone of Proximal Development* in Teaching Fractions and Algebraic Functions; Chair of Committee: Gerald O. Kulm

TEACHING EXPERIENCE

2005 – Current Department of Teacher Education in the School of Education

- Teaching Following Courses for Teachers Credential Programs:
 - The Diverse Classroom
 - Educational Psychology
 - The Foundation of American Education
 - Mathematics Method for Elementary and Middle School Teachers
 - Science Method for Elementary and Middle School Teachers
 - K-12 Classroom Management
 - Topics and Issues in Secondary School Mathematics
 - Technology Applications in Mathematics for K-12 Teachers
 - Methodology for Cross-cultural Instruction
- Teaching Following Courses for Graduate Programs:
 - Mathematics Assessment for K-12 Teachers
 - Science Assessment for K-8 Teachers
 - Applications of Research for the Art of Teaching

- Program Design: Curriculum Theory, Design, and Assessment
- Models of Teaching: Theories, Applications and Practice
- Instruction Theory in Curriculum, Instruction, and Technology
- Action Research for Mathematics Education
- Quantitative Research Method for Teachers
- STEM Teaching and Learning in K-12

- Developed Master of Art in Teaching in Mathematics Education program
- Developed Mathematics Methods Courses for Teacher Credential Program
- Supervisor of Student Teaching and Internship Program
- Committee Member for Doctoral Dissertation
Michele Starkey. (2009). *Mathematical problem-solving and self-efficacy of female college students*.
Lynda McCoy. (2016). *The Effects of Experiential Learning Methods on Building Elementary Teachers' Mathematics Content Knowledge and Self-Efficacy*.

2004 – 2005

Department of ELEC in College of Education, Slippery Rock University of Pennsylvania, Slippery Rock, PA

- Taught Following Course for Teacher Education Program:
 - Math Methods for K-8 Teachers
- Supervisor of Student Teaching

1998 – 2000.

Middle School Teacher

- Taught mathematics at 6th to 8th levels
Brazos School for Inquiry and Creativity, Bryan, TX
- Taught mathematics at 7th grade level
Bryan Independent School District, Bryan, TX

OTHER PROFESSIONAL EXPERIENCE

Spring 2018 -

Served as an Editor-in-Chief of Journal of Innovative Teaching & Learning (JRIT&L)

<http://www.emeraldgrouppublishing.com/services/publishing/jrit/index.htm>

Fall 2015

Served as a Multiple Subject Credential Program SCET revision Review Committee for State of California.

Spring 2014	Invited to be a discussion panel of International Educational Technology Outlook
Fall 2014	Appointed by State Board of Education (SBE) to be a member of the mathematics Instructional Materials Advisory Panel (IMAP) for mathematics textbook (2014-2021)
Fall 2014	Invited to participate in 2014 Western China Overseas High Tech and High Talents Conference Sichuan, China
2011 – Current	Provide hundreds of educational talks and training sessions for teachers, educators, and scholars from overseas
Summer 2010 and 2011	Invited as a visiting professor for research collaboratively on Chinese Minority group in Northwest University for Nationalities
2008 – 2009	Obtained California Teacher Performance Assessment Certificate 1-4 (2008) <ul style="list-style-type: none"> ▪ Subject Specific Pedagogy ▪ Designing Instruction ▪ Assessing Learning Task ▪ Culminating Teaching Experience Task
Fall 2007	Appointed by State Board of Education (SBE) to be a member of the mathematics Instructional Materials Advisory Panel (IMAP) for mathematics textbook (2007-2014)
Summer, 2007	International Studies Database Training Seminar, Washington, DC
Summer, 2006	TI-NetLogo Workshop: NETLOGO-TI Research and Application, Northwest University, Chicago, IL
Summer, 2006	Research Method and Assessment Training: National Assessment of Educational Progress (NAEP), U.S. Department of Education, Washington, D.C.
Summer, 2005	Research Method and Assessment Training: Program for International Student Assessment (PISA), U.S. Department of Education, Washington, D.C.
2003 – 2004	Graduate Researcher for the Middle School Mathematics Project (MSMP), an IERI-funded five-year project (2001-2006) that is a national effort to help teachers grow content and pedagogical knowledge through professional development.

- 2003 – 2004 Co- Curriculum Developer of After School Math/Science Project (Elementary and Middle School). This program was funded to establish an After School Project for the Greater Dallas Boys & Girls Club (GDBG) aiming at promoting learning mathematics and science for children living in poverty. Responsibilities included developing math/science integrated curriculum and instruction and training teachers.
- 2001- 2003 Graduate Researcher for the Show-Me Project, a NSF-funded eight-year project (1997-2005) that was a national effort to support dissemination and implementation of NSF-sponsored middle grade mathematics curricula.

AWARDS / SCHOLARSHIPS

- Outstanding Service Award: School Science and Mathematics Association (2013)
- Excellent Scholarship Award: Chinese American Research and Development Association (2010)
- National University Presidential award (2008, 2009, and 2010)
- Outstanding Service Recognition from California Department of Education (2007)
- TI-Navigator Seed Grant from Texas Instrument (Summer, 2005)

PUBLICATIONS

Books

An, S. & Wu, Z. (2017). *Teaching elementary and middle school mathematics using MSA approach: Model, Strategy, and Application*, (3rd ed.). Irvine, CA: Education for All

Wu, Z. & An, S. (2015). *Teaching elementary and middle school mathematics using MSA approach: Model, Strategy, and Application*, (2nd ed.). Irvine, CA: Education for All

Wu, Z. & An, S. (2012). *Teaching elementary and middle school mathematics using MSA approach*. Irvine, CA: Education for All

Book Chapters

Your another publication:

An S., János S., Wu Z. (2017) Classroom Teaching Research for All Students. In: Kaiser G. (eds) Proceedings of the 13th International Congress on Mathematical Education. ICME-13 Monographs. Springer, Cham.
https://link.springer.com/chapter/10.1007/978-3-319-62597-3_82

- An, S, Wu, Z., & An, S. A. (2016). Comparing U.S. and Chinese teachers' multidigit division knowledge. In J. Cai (Ed.) *Teaching and Teacher Education V*. Beijing, China: People's Publisher.
- Wu, Z., An, S., & An, A. S. (2013). Fathers' role in Chinese children's education. In J. Pattnaik (Ed.), *Father Involvement in Young Children's Lives*. Berlin Germany: Springer
- An, S. & Wu, Z. (2008). Approaches to assessing students' thinking from analyzing errors in homework. M. W. Ellis (Ed.), *Mathematics for every student: Responding to diversity, NCTM book series (Grade 6-8 volume)*. Reston, VA: NCTM.
- Wu, Z. & An, S. (2008). The professional development of mathematics knowledge for teaching. In Kulm, G. (Ed.), *Teacher knowledge and practice in middle grades mathematics* (pp. 103-121). Rotterdam, The Netherlands: Sense Publishers.
- Wu, Z. & An, S. (2007). Using alternative assessments to assess students' learning: Discussion of traditional and authentic assessments. In N. Idris (Ed.), *Classroom assessment in mathematics education* (pp. 19-32). Selangor, Malaysia: McGraw-Hill Education.
- An, S., Kulm, G., Wu, Z., Ma, F. & Wang, L. (2006). Impact Difference on Middle School Mathematics Teachers' Beliefs in the US and China. In F. K.S. Leung, K. D. Graf, & F. J. Lopez-Real (Eds.), *Mathematics education in different cultural traditions: A comparative study of East Asia and the West, The 13th ICMI Study*. New York, NY: Springer.

Refereed Journals

- Wu, Z. (2017). Role of educational policy in mathematical comparison study. *Journal of Mathematics Education*. 26(4), 34-37.
- Wu, Z., & An. (2016). Addressing Challenges in Urban Teaching and Learning Math Using Model- Strategy-Application with Reasoning Approach in Linguistically and Culturally Diverse Classrooms. *Journal of Urban Learning Teaching and Research*. Vol. 12, pp.47-60.
- An, S. & Wu, Z. (2015). Using the Model-Strategy-Application approach in developing pre-Service teachers' pedagogical content knowledge and assessing their progress. *Academic Perspectives*. Vol. 11, 17-37.

- An, S. & Wu, Z. (2015). Making international experiences accessible to in-service teachers through East meets West program. *Journal of Urban Learning Teaching and Research*. Vol.11, 99-117
<http://www.aera-ultr.org/pdf/JULTR2015.pdf>
- An, S., Wu, Z., & An, S. A. (2015). Comparing U.S. and Chinese Teachers' Multidigit Division Knowledge. In [B. Sriraman](#), J. Cai, K. [Lee](#), L. [Fan](#), Y. [Shimizu](#), C. S. [Lim](#), & K. [Subramaniam](#), (Eds.), *The First Sourcebook on Asian Research in Mathematics Education - 2 Volumes: China, Korea, Singapore, Japan, Malaysia and India*. Charlotte, NC: Information Age Publishing.
- Wu, Z., & An, S. (2014). Listen to students' voices: A case study of assessing perspective teachers' thinking in culturally and linguistically diverse classrooms. *Academic Perspectives*. Vol. 10, 58-70.
- An, S., & Wu, Z. (2014). Using the Evidence-Based MSA Approach to Enhance Teacher Knowledge in Student Mathematics Learning and Assessment. *Journal of Mathematics Education*, Vol 7, No. 2, 108-129
- Wu, Z. (2014). Teacher narratives: Constructing Webquest to integrate instruction, technology, and assessment. *National Social Science Technology Journal*.
- Wu, Z. (2013). Influence of the Reformed Mathematics Textbooks on Student Achievement in China. *International Journal of Humanities and Social Science*. 2(3).310-323 <http://www.springerlink.com/content/v83465j6p823g053/>
- An, S. & Wu, Z. (2012). Enhancing mathematics teachers' knowledge of students' thinking from assessing and analyzing misconceptions in homework. *International Journal of Science and Mathematics Education*. 10, 717-753.
<http://www.springerlink.com/content/v83465j6p823g053/>
- Xu, L., Lin, Y., & Wu, Z. (2010). The constructive proof and corollary of three well-known series theorem in number theory. *College Mathematics (Chinese version)*. 26(6), 123-128.
- Sun, Y., An, S., Wu, Z., & Li, X. (2010). An international perspective on sixth grade mathematics final exams between Beijing and New York. *New Waves—Educational Research & Development*. 13(1) 3-11
- An, S., & Wu, Z. (2009). A balance Chinese mathematics instruction and its cultural influences. *Preceding of the 33rd Conference of the International Group for the Psychology of Mathematics Education*, Thessaloniki, Greece, Vol. 1, 112.
- Wu, Z., Ma, F., & An, S. (2009). Beyond traditional curriculum: Effectiveness of new mathematics curriculum achievement in China. *Preceding of the 33rd*

Conference of the International Group for the Psychology of Mathematics Education, Thessaloniki, Greece, Vol. 5, 504.

- Wu, Z., An, S., King, J., Ramirez, M., & Evans, S. (2009). Second grade “professor”: Using graphic organizers and the mathematician’s chair enhances second graders’ proficiency in solving word problems. *Teaching Children Mathematics*. 15(1), 34-42.
- Wu, Z. (2009). Comparison study of teachers’ knowledge and confidence in integrating technology in teaching mathematics in elementary school in the U.S. and China. *The Journal of Research in Innovative Teaching*. 2(1), 126-135.
- Wu, Z. (2008). Using the MSA model to assess Chinese sixth graders’ mathematics proficiency. *Journal of Mathematics Education*. 1(1), 70-90.
- Hu, J., Tang, Z, Xu, L., & Wu, Z. (2008). Briefing on MM education: A new way of mathematics teaching. *Journal of Mathematics Education*. 1(1), 109-113.
- Wu, Z. (2008). A bridge for ELL student learning mathematics: Multiple representations. *National Association for Bilingual Education News*, July – October, 7-12.
- Wu, Z., & An, S. (2008). Shaping teaching ability in K-8 math classrooms. *Proceeding of the joint meeting of PME 32 and PME-NA XXX, Morelia, Mexico, Vol. 1, 325.*
- Wu, Z. (2007). Number sense in mathematics teaching and learning. *People’s Education*. 550, 38-41.
- Wu, Z. (2007). Cooperative learning and mathematics problem solving in elementary classroom. *People’s Education*. 550, 38-41.
- Wu, Z. (2007). Teaching mathematics effectively in diverse classroom. *People’s Education*. 550, 38-41.
- An, S. & Wu, Z. (2007). What do we mean about effective mathematics lesson? *People’s Education*. 549, 44-47.
- Wu, Z. (Spring 2006). The impact of teachers’ beliefs on their changes in learning and using mathematical representations in classroom through professional development. *Holistic Education Newsletter*. Spring 2006.
- Wu, Z. (2006). Learning Mathematics with Understand: Discussion of Mathematics Proficiency. *Journal of Mathematics Education*. 15(2), 41-45.

- Wu, Z. (2005). Middle school teachers' learning to use mathematical representation in relationship to Teachers' Zone of Proximal Development. *Heuristic Teaching of Mathematics of International Collection of Scientific Works*. p. 298-299.
- Wu, Z. (2005). Reflection on reform of mathematics education doctoral program. *Journal of Mathematics Education*. 14(1), 77-79.
- An, S., Kulm, G., & Wu, Z. (2004). The pedagogical content knowledge of middle school mathematics teachers in China and the U.S., *Journal of Mathematics Teacher Education*, 7(2), 145-172.
- Wu, Z. (2002). Effect of teachers' knowledge and beliefs on mathematically gifted student's achievement. *Journal of Mathematics Education*. 11(4), 45-49.
- An, S., & Wu, Z. (2002). Comparative study of the development of the mathematics curriculum in the United States and China. *Curriculum History*. March 2002, pp.1-6, 10.

Preceding

- Wu, Z., An, S., Sha, J., Wei, J., & Li, L. (2014). Comparative study on understanding and proficiency between U.S. and Chinese 4th graders. *The proceeding of ICME-12 (International Commission on Mathematics Instruction)*, Berlin Germany: Springer
- Wu, Z., An, S., McCoy, L., & Serrano, B. (2014). Empirical study teacher change through in-service education: Use evidence based MSA approach to assess student mathematics thinking . *The proceeding of ICME-12 (International Commission on Mathematics Instruction)*, Berlin Germany: Springer
- Wu, Z., An, S., Wei, J., McCoy, L., & Serrano, B. (2014). Making international experience accessible to in-service teachers through East meets West program. *The proceeding of ICME-12 (International Commission on Mathematics Instruction)*, Berlin Germany: Springer
- An, S., & Wu, Z. (2009). A balance Chinese mathematics instruction and its cultural influences. *Preceding of the 33rd Conference of the International Group for the Psychology of Mathematics Education*, Thessaloniki, Greece, Vol. 1, 112.
- Wu, Z., Ma, F., & An, S. (2009). Beyond traditional curriculum: Effectiveness of new mathematics curriculum achievement in China. *Preceding of the 33rd Conference of the International Group for the Psychology of Mathematics Education*, Thessaloniki, Greece, Vol. 5, 504.

PRESENTATIONS

- Wu, Z. (2016). Effects of using program of week in teaching on teacher learning and change in algebra thinking and algebra. Paper will be presenting at 13th *International Congress on Mathematical Education (ICME 13)*. Hamburg, Germany.
- Wu, Z. (2015, September). Pre-service Teachers' Mathematical Teaching Knowledge Improvement via Problem of Week in Teaching (POWT). *Power point presented at National University 2015 Fall Assembly*. San Diego, CA
- Wu, Z. & An, S. (2015, April) Addressing Challenges in Urban Teaching and Learning Math Using the Model-Strategy-Application With Reasoning Approach in Linguistically and Culturally Diverse Classrooms. *Paper presented at AERA annual conference*. Chicago, Illinois.
- Wu, Z. (2014, October). Math vocabulary. *Paper presented at Professional Development Conference for English-language Instructors*. Shanghai, China
- Wu, Z. (2014, August). Teacher narratives: Constructing Webquest to integrate instruction, technology, and assessment. *Paper presented at National Social Science Association Summer Seminar*. San Diego, CA.
- Wu, Z. (2014, March). Using authentic video lesson to support K-6 pre-service teacher learning about math/science instruction. *Paper presented at National University 2014 Spring Symposium*. San Diego, CA.
- Wu, Z. (2014, March). Teachers' knowledge and efficacy in math/science methods online course for CA credential program. *Paper presented at National University 2013 Spring Symposium*. San Diego, CA.
- Wu, Z. (2013, November). Using Chinese math video lessons to address the CCSSM. *Paper presented at School Science and Mathematics Association Annual Convention*. San Antonio, TX.
- Wu, Z. & An, S. (2013, November). Mathematical model and modeling in K-8 classrooms. *Paper presented at CMC-S*. Palm Springs, CA.
- Wu, Z., An, A.S., & An, S. (2013, April). Father's role in Chinese children education. *Paper presented at 21st Annual International Conference of CAERDA*. San Francisco, CA.
- Wu, Z. & An, S. (2012, November). Camtasia Relay technology improves online teaching and learning mathematics: introduction and demonstration. *Paper presented at School Science and Mathematics Association Annual Convention*. Birmingham, AL.

- Wu, Z. & An, S. (2012, November). "Open class": Professional development model in China. *Paper presented at CMC-S*. Palm Springs, CA.
- Wu, Z. (2012, March). Use Power Point to promote teaching and learning. *Paper presented at National University 2012 Spring Symposium*. San Diego, CA.
- Wu, Z., Sha, J., Wei, J., Li, L., & An, S. (2012, July). Assessing Chinese fourth graders' mathematics proficiency. *Paper presented at 12th International Congress on Mathematical Education (ICME 12)*. Seoul, South Korea.
- Wu, Z., An, S., McCoy, L., & Serrano, B. (2012, July). Making international experiences accessible to in-service teachers through East Meets West program. *Paper presented at 12th International Congress on Mathematical Education (ICME 12)*. Seoul, South Korea.
- Wu, Z., An, S., McCoy, L., & Serrano, B. (2012, July). Empirical study on teacher change through in-service education: Using evidence-based MSA approach to assessing student mathematics thinking. *Paper presented at 12th International Congress on Mathematical Education (ICME 12)*. Seoul, South Korea.
- Wu, Z., & An, S. (December. 2011). Using concepts and items from PISA to promote STEM education in the Classroom. *Paper presented at CMC-N*. Asilomar, CA.
- Wu, Z. (2011, Nov.). STEM education: Opportunities and challenges. *Paper presented at School Science and Mathematics Association Annual Convention*. Colorado Spring, CO.
- Wu, Z. & McCoy, L. (2011, June). *Mathematical Modeling in Connecting Concepts to Real World Applications*. Paper presented at the 3rd Classroom Teaching Research for All Students (CTRAS) Annual Conference. Changshu, China.
- An, S., Golez, F. V., & Wu, Z. (2011, April). East meets west: Teaching math lessons in a dual language immersion setting. *Paper presented at 2011 National Association for Asian and Pacific American Education Conference*. Long Beach, CA.
- An, S., Masunaga, H., Wu, Z., An, A. S., Golez, F. V., & Symcox, L. (2011, April). Teachers' knowledge of teaching multidigit division in the United States and China. *Paper presented at AERA annual conference*. New Orleans, LA.
- Wu, Z. & An, S. (2011, April). Effects of structured approach for enhancing ability of word problem for all students in primary grade classroom. *Paper presented at AERA annual conference*. New Orleans, LA.

- Wu, Z. (2011, Jan.). The Effects of Structured Approach for Enhancing Ability of Word Problems for all Students in Primary Grade Classroom. *Paper presented at Ninth Annual Hawaii International Conference on Education*. Honolulu, Hawaii.
- Wu, Z. (2010, Dec.). Differentiating Instruction: A way to Close the Learning Gap. *Paper presented at CMC-N*. Asilomar, CA
- Wu, Z. (2010, Nov.). Application Based Learning: Evidence Provided From Math Methods Course. *Paper presented at School Science and Mathematics Association Annual Convention*. Ft. Myers, FL.
- Wu, Z., & An, S. (2010, Oct.). History of mathematics: The way to promote teaching and learning. *Paper presented at International Study Group on History and Pedagogy of Mathematics – Americas Section*. Pasadena, CA: California Institute of Technology.
- Wu, Z. (2010, June). Secondary mathematics teaching and learning: past, today, and future. *Lectured at Hanzhou Normal University*. Hangzhou, China.
- Wu, Z. (2010, July). Overview of Journal of Mathematics Education. *Materials presented at the Chinese National Mathematics Teacher Education Conference*. Hanzhou, China.
- Wu, Z. (2010, July). Mathematics teacher readiness in diverse classroom: New approach of California Teacher Performance Assessment. *Paper presented at Zhejiang Normal University*. Jinhua, China.
- Wu, Z. (2010, July). Linking research to practice: Classroom teaching research framework (CTRF) Discussion. *Paper presented at East China Normal University*. Shanghai, China.
- Wu, Z. (2010, April). Helping all students learn solving equations. *Paper presented at AERA annual conference*. Denver, CO.
- Wu, Z. (2010, March). Videotape analysis of mathematics effective teaching. *Invited to provide a speech at California Mathematics Council – Community College South (CMC3) conference*. Anaheim, CA
- Wu, Z. (2009, Dec.). History of math: the way to promote teaching and learning in 9-12. *Paper presented at CMC-N*. Asilomar, CA
- Wu, Z., & An, S. (2009, Nov.). History of math: the way to promote teaching and learning in K-8. *Paper presented at CMC-S*. Palm Springs, CA.

- An, S., & Wu, Z. (2009, Nov.). Subject-centered teaching in Chinese instruction. *Paper presented at CMC-S, Palm Springs, CA*
- Wu, Z. (2009, May). Lesson study: Method and implementation. *Paper presented at International History of mathematics Conference*. Beijing, China.
- An, S., & Wu, Z. (2009, July). A balance Chinese mathematics instruction and its cultural influences. *Paper presented at the 33rd Conference of the International Group for the Psychology of Mathematics Education, Thessaloniki, Greece*.
- Wu, Z., Ma, F., & An, S. (2009, July). Beyond traditional curriculum: Effectiveness of new mathematics curriculum achievement in China. *Paper presented at the 33rd Conference of the International Group for the Psychology of Mathematics Education, Thessaloniki, Greece*.
- Wu, Z. (2009, May). History mathematics: the way to promote K-12 student mathematical thinking. *Paper presented at International History of mathematics Conference*. Beijing, China.
- Wu, Z., Ye, L., & An, S. (2009, April). The new features of Chinese math instruction and cultural influences. *Paper presented at 2009 American Educational Research Association (AERA)*. San Diego, CA.
- An, S., Wu, Z., & An, S. A. (2009, April). Chinese teachers' knowledge of teaching whole number division with multiple digits. *Paper presented at 2009 American Educational Research Association (AERA)*. San Diego, CA.
- Wu, Z., & An, S. (2009, March). History of mathematics: The way to promote all student mathematical thinking. *Paper presented at T3 Regional Mathematics Conference*. Fullerton, CA.
- Wu, Z. (2008, Dec.). Assessing pre-service teachers' change through picture drawing. *Paper presented at CMC-North Annual Fall Conference*. Monterey Bay, CA.
- Wu, Z. (2008, Nov.). Balanced teaching and balanced learning – Middle school mathematics – concept, computation, and application. *Paper presented at 2007 School Science and Mathematics Association (SSMA) Annual Conference*. Durham, NC
- Wu, Z. (2008, Nov.). Teacher Performance Assessment (TPA): How Does This Change the Math Methods Course? *Paper presented at 49th CMC-South Annual Fall Conference*. Palm Spring, CA.
- Nguyen, D. & Wu, Z. (2008, Sept.). Enhancing Students' Mathematics and Science Knowledge through Math/Technology Activity. *Paper presented at National University – Fall Assembly*. San Diego, CA.

- Wu, Z., & An, S. (2008, July). Using the Model-Strategy-Application Approach to Developing Pre-Service Teachers' Knowledge and Assessing Their Progress in Math Methods Courses. *Paper presented at 11th International Congress on Mathematics Education*. Monterrey, Mexico.
- An, S., & Wu, Z. (2008, July). Comparative Study on Modeling and Word Problem Application in Rational Numbers between U.S. and Chinese 6th Graders. *Paper presented at 11th International Congress on Mathematics Education*. Monterrey, Mexico.
- Wu, Z., & An, S. (2008, July). *The mirror of social and cultural influence in mathematics Assessment: research on the effects of the new mathematics curriculum and its practice in China*. Paper presented at ICME-11. Monterrey, México.
- Wu, Z., & Li, L. (2008, July). Sharpening Teaching Ability in K-8 Mathematics Classrooms. *Paper presented at 11th International Congress on Mathematics Education*. Monterrey, Mexico.
- Wu, Z., & An, S. (2008, April). Learning strategies in Chinese mathematics classroom. *Paper presented at American Educational Research Association Annual Conference*. New York.
- Acosta-Tello, E., & Wu, Z. (2008, March). Evaluating course design: Student input on effectiveness. *Paper presented at 20th Annual Lilly Conference on College & University Teaching – West*. Pomona, CA.
- Wu, Z. (2008, March). A Bridge For ELL Students Learning Mathematics: Multiple representations. *Paper presented at Orange County Mathematics Annual Conference*. Garden Grove, CA.
- Wu, Z., & An, S. (2007, November). Invention approach of K-8 mathematics instruction. *Paper presented at 48th CMC-South Annual Fall Conference*. Palm Spring, CA.
- Wu, Z. (2007, October). Using the MSA model to assess students' learning in rational numbers with intervention approach. *Paper presented at 2007 School Science and Mathematics Association (SSMA) Annual Conference*. Indianapolis, Indiana.
- Wu, Z. (2007, July). Mathematics assessment at middle school level. *Lecture at Middle school mathematics curriculum and instruction assessment training of Department of Education of PRC*. Qindao, Chin.

- Wu, Z. (2007, July). Mathematics education research: past, present, and future. *Lecture at Tianjing Normal University (Tianjing) and Nanjing Normal University (Nanjing), China.*
- Wu, Z. (2007, July). Algebraic thinking in elementary schools. *Lecture at Beijing Academy of Educational Science. Beijing, China*
- Wu, Z. (2007, April). Beyond Traditional Curriculum – Effectiveness of New Mathematics Curriculum on Student Achievement in China. *Paper presented at 2007 AERA Annual Meeting. Chicago, IL.*
- Wu, Z. & An, S. (2007, April). The Effects of Research on the New Mathematics Curriculum and Its Practice in China. *Paper presented at NCTM 2007 Annual Meeting – Research Session. Atlanta, GA.*
- An, S. & Wu, Z. (2007, March). Conducting Open Class by Teacher Leaders – Effective Professional Development Model in China. *Paper presented at NCSM 2007 Annual Meeting. Atlanta, GA.*
- Wu, Z. & An, S. (2007, Jan.). Sharpening Teaching Ability in Mathematics Classrooms. *Paper presented at Association of Mathematics Teacher Educators (AMTE) 11th Annual Conference. Irvine, CA.*
- Wu, Z., & An, S. (2006, Nov.). Using the Model-Strategy-Application approach to teaching elementary and middle school mathematics proficiently and effectively. *Paper presented at 47th CMC-South Annual Fall Conference. Palm Spring, CA.*
- Wu, Z., & An, S. (2006, Oct.). Teaching and assessing K-8 mathematics with understanding: Effects of the MSA approach. *Paper presented at 2006 SSMA Annual Conference. Missoula, MT.*
- Wu, Z., & An, S. (2006, Apr.). Mathematical word problems: A useful tool for assessing students' understanding. *Paper presented at 84th Annual Meeting of the National Council of Teachers of Mathematics. St. Louis, MO.*
- Wu, Z. (2006, April). Using the Model-Strategy-Application Approach to developing pre-service teachers' pedagogical content knowledge and assessing their progress. *Paper presented at 2006 AERA Annual Meeting. San Francisco, CA.*
- Wu, Z. (2005, Oct.). The study of learning and use mathematical representation in mathematics instruction. *Paper presented at 2005 SSMA Annual Conference, Fort Worth. Dallas, TX.*
- Wu, Z., An, S. & Wang, L. (2005, Aug.). Comparison study of integrating technology in mathematics teachers' knowledge and confidence between U.S. and Chinese

- teachers. *Third ICMI-East Asian Regional. Conference on Mathematics Education (EARCOME 3)*, Shanghai, China.
- Wu, Z. (2005, April). The effect of “Open Class”- the new model of professional development on enhancing teachers’ pedagogical content knowledge. *Paper presented at 2005 AERA Annual Meeting*. Montreal, Canada.
- Wu, Z. (2005, April). The study of middle school math teachers' use of and understanding math representation. *Paper presented at 2005 AERA Annual Meeting*. Montreal, Canada.
- Wu, Z., An, S., Wang, L., An, J, Zhang, Y., & Wei, J. (2005, April). Improving mathematics teachers’ professional development – School-Based Teachers’ Training Program in China. *Paper presented at 83rd Annual Meeting of the National Council of Teachers of Mathematics – Research Session*. Anaheim, CA.
- An, S., & Wu, Z. (2005, April). Developing proficiency in fraction operations: Chinese computational strategies. *Paper presented at 83rd Annual Meeting of the National Council of Teachers of Mathematics*. Anaheim, CA.
- Wu, Z. (2004, July). The study of elementary school students’ algebraic thinking. *Paper presented at 10th International Congress on Mathematics Education*. Copenhagen, Denmark.
- Wu, Z. & Kulm, G. (2004, July). The Study of teachers’ learning to use mathematical representation in teaching. *Paper presented at 10th International Congress on Mathematics Education*. Copenhagen, Denmark.
- Wu, Z. (2004, April). Enhancing elementary students’ proficiency and promoting mathematics understanding. *Paper presented at American Educational Research Association (AERA) Annual Meeting*. San Diego, CA.
- Wu, Z., An, S., & Li, L. (2004, April). Improving mathematics proficiency in the classroom - Chinese mathematics lessons. *Paper presented at 82nd Annual Meeting of the National Council of Teachers of Mathematics – research session*. Philadelphia, PA.
- An, S. & Wu, Z. (2004, April). Teaching fractions from a Chinese perspective. *Paper presented at 82nd Annual Meeting of the National Council of Teachers of Mathematics*. Philadelphia, PA.

SCHOLARLY CREATIVITIES & SERVICES

National and International Service and Scholarly Activities

- Invited to serve as a Member of CSULB Advisory Committee for International Training Program (2020 -)
- Board of director of School of Science and Mathematics Association (SSMA) (2010 – 2013)
- Editor-in-chief of Journal of Research in Innovative Teaching & Learning (2018 -)
- Innovative President of Chinese Scholars Association – Southern California (2016 – 2017)
- Director of Board of Chinese Scholars Association – Southern California (2013 – 2015)
- Served as a Mathematics Subject Matter Advisory Panel member for CA CSET Exam (Feb, 2013)
- Served as a chair for the Membership Committee of California Association of Mathematics Teacher Education (CAMTE) (2012-2014)
- Served as a Chair of the Discussion Group of Mathematical Modeling (DG14) at The 12th International Congress on Mathematics Education, the largest mathematics education conference in the world;
- Board of director of School of Science and Mathematics Association (SSMA) (2010 – 2013)
- Served as a Judge for the Intel International Science and Engineering Fair (INTEL) since 2014
- Served as a Judge for the Orange County Science annual competition (OCSEF) since 2012
- Served as a Judge for the California State Science Fair (CSSF) since 2012
- Serving as a chair for Membership Committee of California Association of Mathematics Teacher Education (CAMTE) (2008-2010)
- Serving on financial and membership committee for *School Science and Mathematics Association* (SSMA) (2006 - 2008).
- Mathematics assessment item developer for Intel-Assess project (2006-2007).
- Invited by Beijing Academy of Education to provide a workshop on US mathematics teaching. Beijing, China. Summer 2007.
- Invited by the Education Department of Jiangsu Province, China to conduct Large-scale elementary school students' mathematics assessment project in China in January 2007.
- Invited by the Education Department of China to conduct Large-scale middle school students' mathematics assessment project in China in March 2006.
- Chaired a Division K session at the 2006 AERA Meeting in San Francisco, CA.
- Co-chaired a workshop on algebra teaching and learning of the International Program Committee (IPC) for the Third ICMI-East Asian Regional Conference on Mathematics Education (EARCOME 3), Shanghai, China. August 7-12, 2005.
- A reviewer of *Teaching Children Mathematics* (NCTM) since 2006
- An associate director editor and member for *Editorial Board of Journal of Mathematics Education* since 2005

Editorships & Reviewerships

- Serve as an editor of *Social Science for Academic Perspectives*, the official journal of Chinese Scholars Association (2013 – present)
- Serving as an editor of Newsletter for International Group – Psychology of Mathematics Education (PME) since January 2009.
- Invited to serve as Editorial Board member of *Quaderni Di Ricerca in Didattica (Scienze Matematiche)* since April 2008:
http://math.unipa.it/~grim/quaderno19_suppl_1.htm
- Serving as an editor for *Journal of Mathematics Education (JME)* since fall 2008.
- Serving as an associated editor for *School of Science and Mathematics Journal (SSMJ)* since spring, 2008.
- Serve as an associate director editor for *Journal of Mathematics Education, China* since 2004.
- Serve as a reviewer for *Teaching Children Mathematics (TCM)* since 2006

Memberships and Offices Held on University Committees

- Shared Governance Committee, National University (2015 – present)
- Scholarship and Research Committee member, SOE, National University (2013 – present)
- Graduate Associate & Adjunct Affairs Committee member, National University (2013 – present)
- Development of MAT Teaching Mathematics Program (2011)
- Development of TED 636 online instructional materials (2010 – present)
- National University Research Council (2009-2012)
- National University Faculty Senate Committee -- Graduate Council Program Review Committee (2009 – 2010)
- Development of TED 622B online and onside instructional materials (PEP) - National University (2008 - 2010)
- Development and Program coordinator of BA in Mathematics with Preliminary Single Subject Credentials - National University (2007 - present)
- National University Faculty Senate Committee -- Senate Academic Policy and Planning Committee (2008 - 2009)
- National University – Chair of WASC Faculty Allocation and Deployment Committee (2007)
- National University – NCATE Standards Committee (2007- present)
- A reviewer of Multiple subject CSET and single subject – math CSET for Extended Learning of National University
- National University Faculty Senate Committee -- Review and Grievance Committee (2006 - 2008)

PROFESSIONAL ORGANIZATIONS

Association for Supervision and Curriculum Development (ASCD)
American Educational Research Association (AERA)

Special Interest Group for Research in Mathematics Education
(SIG/RME)

Special Interest Group for Research in International Study (SIG/RIS)

Association of Mathematics Teacher Educators (AMTE)

National Council of Teachers of Mathematics (NCTM)

School Science and Mathematics Association (SSMA)

Phi Delta Kappa

International Group of the Psychology of Mathematics Education (PME)

International Society for Technology in Education (ISTE)

California Mathematics Council (CMC)

California Association of Mathematics Teacher Education (CAMTE)