

ICTM Candidate: Short Bio and Statement

Cheng-Yao Lin



Candidate Name: Cheng-Yao Lin

Current Position: Professor of Mathematics Education (2016-present); Southern Illinois University Carbondale. Main faculty member in teacher education program.

Past Experience:

- Associate Professor of Mathematics Education, Southern Illinois University Carbondale, Carbondale, IL, 2010-2016.
- Assistant Professor of Mathematics Education, Southern Illinois University Carbondale, Carbondale, IL, 2004-2010.
- Visiting Assistant Professor of Mathematics Education, Illinois Wesleyan University, Bloomington, IL, 2004.
- Research Assistant of Mathematics Education, University of Illinois at Urbana-Champaign, 2001-2003.
- Teaching Assistant of Mathematics Education, University of Illinois at Urbana-Champaign, 1999-2001.
- Mathematics Teacher, National Jen-Ai School, Chang-Hwa, Taiwan, 1990-1997.

Education:

- Ph.D., Mathematics Education, University of Illinois at Urbana-Champaign, 2003.
- M.S., Special Education, University of Northern Colorado, 1998.
- B.S., Gifted Education, National Taipei University of Education, 1990.

ICTM Involvement and Activities:

- Program Chair, Annual Conferences on Teaching Mathematics, ICTM/ Southern Section: 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017.
- Speaker at Illinois Council of Teachers of Mathematics Annual Conferences: 2006, 2007, 2015, 2016.
- Speaker at Annual Conferences on the Teaching of Mathematics, ICTM (Charleston, IL): Teaching Addition Across Different Cultures (2013); Multiplication Algorithms (2009); Pythagorean theorem proofs (2008).
- Nominated for ICTM Board of Directors, Director at large, 2015.
- Nominated for ICTM Board of Directors, Director Community College/University, 2014.

Other Professional Activities:

- Published articles in journals such as *Journal of Mathematics Behavior*, *Mathematics Teaching in the Middle School*, *International Journal for Technology in Mathematics Education*, *Journal of Computers in Mathematics and Science Teaching*, *School Science Mathematics Journal*, *Contemporary Issues in Technology and Teacher Education*.
- Associate Editor: *Journal of Mathematics Education*
- Editor: *Electronic Journal of Mathematics and Technology*
- Annual Convention Committee, School Science and Mathematics Association.
- Membership Committee, School Science and Mathematics Association.

- Session chair at meetings of SIG-Research in Mathematics Education (SIG/RME) and American Educational Research Association (AERA)

Other Affiliations and Memberships (e.g., NCTM, NSTA, ISTA, MMC)

- National Council of Teachers of Mathematics (NCTM)
- Illinois Council of Teachers of Mathematics (ICTM)
- Illinois Mathematics Teacher Educators (IMTE)
- Association of Mathematics Teacher Educators (AMTE)
- American Education Research Association (AERA)
- American Education Research Association (AERA), SIG-Research in Mathematics Education (SIG/RME)
- Psychology of Mathematics Education (PME)
- Psychology of Mathematics Education- North American Chapter (PME-NA)
- School Science and Mathematics Association (SSMA)
- ICTM, Southern Illinois Mathematics Council (SIMC)
- Chinese American Educational Research and Development Association (CAERDA)

Honors or Recognitions:

- Selected for U.S. Fulbright Scholar Specialist Program (2014-2019).
- Nominated for American Education Research Association (AERA) best research paper 2016.

Candidate Statements

How have you contributed to and/or been a leader in mathematics education?

Answer:

I have consistently worked to support a strong and effective Annual Conference on Teaching Mathematics of the Illinois Council of Teachers of Mathematics [ICTM] since I joined SIUC. I demonstrated my leadership role, serving as Program Chair, participated in choosing conference themes, identified program topics and speakers and provided other general support. In addition, I have helped to identify the main speakers, all of whom have been national leaders and then gotten to know them during conferences.

For the national level service, I have served in many leadership roles in such as Associate Editor: *Electronic Journal of Mathematics and Technology* (2013-present); Associate Editor: *Journal of Mathematics Education* (2012-2013); Editorial board: *Journal of the Korea Society of Mathematics Education: series A.* (2014-present); Membership Committee of the School Science and Mathematics Association (2007-2010); Annual Convention Committee, School Science and Mathematics Association (2010-2012); Editorial board: *Journal of the Korea Society of Mathematics Education: series D.* (2014-present); Session chairs, panelists and discussant for the American Educational Research Association (AERA) Meetings.

What role do you think ICTM can play in mathematics education in Illinois?

Answer:

I think ICTM should play an important role to promote effective teaching and learning of mathematics in Illinois at all school levels and in teacher preparation. I believe mathematics education should focus on both procedural knowledge and conceptual knowledge in teaching mathematics in order to meet the Common Core State Standards. I think ICTM should help Illinois teachers to become well equipped with procedural knowledge and conceptual knowledge and effective classroom teaching.

I believe technology can be helpful for teaching and learning mathematics if teachers use it appropriately. I think ICTM should be a leader in helping teachers to choose useful technology tools in teaching mathematics that may help students connect to the real world context.

I believe showing some results of cross-cultural studies and The Trends in International Mathematics and Science Study (TIMSS) in mathematics is important to our teachers they will know where we are and how we should improve mathematics education so in terms of teacher education and ultimately student learning. I think ICTM should make a connection to other countries to help Illinois teachers to explore the reasons for our strengths and weakness through analysis of outcomes. Based on weaknesses pointed out through a continual attention to research, we can re-design and re-teach mathematics lessons for teachers to help them to be better equipped for teaching mathematics, which ultimately leads to greater student outcomes and understandings.

[How do you see yourself being active in and/or contributing to ICTM during your term?](#)

Answer:

I would be honored and do my best to contribute to ICTM during my term if I were elected to Board of Directors. I would attend and participate in all board and ICTM's annual and regional meetings. I will also participate in NCTM's regional and national meetings. I would work to ensure that ICTM has adequate systems of internal operational and financial controls. I would engage in active strategic planning and ensure that the ICTM operates professionally.