

CINDY JONG

Assistant Professor, Mathematics Education
University of Kentucky
Department of STEM Education
105 Taylor Educational Building
Lexington, KY 40506
cindy.jong@uky.edu

Education

Ph.D., Boston College Lynch School of Education, *May 2009*
Curriculum and Instruction: Mathematics Education
Dissertation Title: *Linking Teacher Learning to Pupil Learning: A Longitudinal Investigation of how Experiences Shape Teaching Practices in Mathematics*

M.Ed., University of Nevada Las Vegas, *December 2004*
Curriculum and Instruction: Mathematics Education

B.A., University of Nevada Las Vegas, *August 2002*
Elementary Education (K-8 Teaching License & TESL Certification)

Academic Appointments and Work Experience

Assistant Professor: *August 2011 – Present*
University of Kentucky, College of Education
Department of STEM Education
Courses: SEM 337 Teaching Mathematics for Elementary Education
SEM 604 History of STEM Education
SEM 110 Intro to STEM Education
SEM 620 Equity in STEM Education
Practicum Supervisor

Assistant Professor: *August 2009 – May 2011*
Virginia Commonwealth University, School of Education
Department of Teaching and Learning, Mathematics Education
Courses: TEDU 522 Teaching Mathematics for Elementary Education
TEDU 651 Leadership for K-8 Mathematics Specialists
Academic Advisor and Intern Supervisor

Research Assistant: *August 2004 – May 2009*
Boston College, Lynch School of Education
Teachers for a New Era, PI: Marilyn Cochran-Smith
Qualitative case studies project: five-year design to study the process of learning to teach from participants' preservice period to year four of full-time teaching
Comparison study: quasi-experimental design to compare teaching practices between matched pairs of graduates from two teacher preparation programs

Longitudinal surveys of teacher candidates and graduates: ongoing surveys from entry, exit, and one to three years out of the teacher education to track change over time; Instrument design, pilot, implementation and measurement in above projects

Research Assistant: *August 2006 –June 2007*

Boston College, Lynch School of Education

National Science Foundation Project, PI: G. Michael Barnett

Implemented Quest Atlantis (science educational video game) in Boston Public Schools;

Collected and analyzed data on student learning to examine how to make science accessible for young students in urban schools

Instructor: *August 2006 –December 2008*

Boston College, Lynch School of Education

Math Labs and Mathematics Methods courses (undergraduate and graduate)

Supervisor: *August 2004 –May 2005*

Boston College, Lynch School of Education

Supervised Practicum Students in Boston area schools

Elementary School Teacher: *August 2002 –August 2004*

Mountain View Elementary School, 2nd grade

Clark County School District: Las Vegas, NV

Peer-Reviewed Publications

(333 Citations on Google Scholar as of January 2016)

<http://scholar.google.com/citations?hl=en&user=GwWJ2GkAAAAJ>

Jong, C. (2016). Linking reform-oriented experiences to teacher identity: The case of an elementary mathematics teacher. *The Journal of Educational Research*.

Jong, C., Dowty, H., Hume, B., & Miller, M. (expected spring 2016). Integrating alternative algorithms: Possibilities and practices. *Ohio Journal of School Mathematics*.

Roark, R., Cummane, P., Crawford, B. F., **Jong, C.** & Fisher, M. H. (expected spring 2016). Preservice elementary teachers' perceptions of factors that influence mathematics teaching effectiveness. *Virginia Mathematics Teacher*.

Barnatt, J., Terrell, D.G., D'Souza, L., **Jong, C.**, Cochran-Smith, M., Mitchell, K., Gleeson, A., McQuillan, P., & Shakman, K. (accepted, fall 2015). Interpreting early career trajectories. To appear in *Educational Policy*.

Thomas, J., Fisher, M. H., **Jong, C.**, Schack, E. O., & Krause, L.R. & Kasten, S. (2015). Professional noticing: Learning to teach responsively. *Mathematics Teaching in the Middle School*, 21(4), 238-243.

Jong, C., & Hodges, T.E. (2015). Assessing attitudes toward mathematics across teacher education contexts. *Journal of Mathematics Teacher Education*, 18(5), 407-425.

Jong, C., Hodges, T.E., Royal, K.D., & Welder, R.M. (2015). Instruments to measure preservice elementary teachers' conceptions: An application of the rasch rating scale model. *Educational Research Quarterly*, 39(1), 21-48.

Schack, E. O., Fisher, M. H., **Jong**, C., & Thomas, J. (2015). Flowcharts to evaluate responses to video-based professional noticing assessments. In Bartell, T. G., Bieda, K. N., Putnam, R. T., Bradfield, K., & Dominguez, H. (Eds.). *Proceedings of the 37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 1314-1317). East Lansing, MI: Michigan State University.

Hodges, T. E., & **Jong**, C. (2015). Site-based mathematics methods coursework: The development of attitudes and theory-practice connections. In Bartell, T. G., Bieda, K. N., Putnam, R. T., Bradfield, K., & Dominguez, H. (Eds.). *Proceedings of the 37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 900-903). East Lansing, MI: Michigan State University.

Orrill, C.H., Kim, O., Peters, S.A., Lishka, A.E., **Jong**, C., Sanchez, W.B., Eli, J.A. (2015). Challenges and strategies for assessing specialized knowledge for teaching. *Mathematics Teacher Education and Development* 17 (1), 12-29.

Flanery, B., Roark, R., Cummane, P., Fisher, M.H., **Jong**, C. (2014). Using Professional Noticing in Elementary School Mathematics. *Virginia Mathematics Teacher*, 41, (1), 21-23.

Hodges, T. E., & **Jong**, C. (2014). School-based communities of practice as mechanisms for standards-based mathematics curriculum implementation, *Journal of Education*, 194 (2), 25-34.

Fisher, M. H., Schack, E. O., Thomas, J., **Jong**, C., Eisenhardt, S., Tassell, J., & Yoder, M. (2014). Examining the Relationship Between Preservice Elementary Teachers' Attitudes Toward Mathematics and Professional Noticing Capacities. In *Research Trends in Mathematics Teacher Education* (pp. 219-237). Springer International Publishing.

Jong, C., & Magruder, R.L. (2014). Beyond cookies: Understanding various division models. *Teaching Children Mathematics*, 20 (6), 367-373.

Jong, C., & Hodges, T.E. (2013). The influence of elementary preservice teachers' mathematics experiences on their attitudes towards teaching and learning mathematics. *International Electronic Journal of Mathematics Education*, 8 (2-3), 100-122.

Jong, C., & Jackson, C. (2013). Examining preservice teachers' conceptions about teaching mathematics for social justice. In Martinez, M. & Castro Superfine, A (Eds.). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 789-792). Chicago, IL: University of Illinois at Chicago.

Hodges, T.E., **Jong**, C., & Royal, K.D. (2013). The development of attitudes about mathematics during preservice teacher education. In Martinez, M. & Castro Superfine, A (Eds.). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 785-788). Chicago, IL: University of Illinois at Chicago.

Schack, E., Fisher, M., Thomas, J., **Jong**, C., & Eisenhardt, S. (2013) Learning to Professionally Notice: Preservice Elementary Teachers' Attitudes Toward Mathematics in Context. In Martinez, M. & Castro Superfine, A (Eds.). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 669-676). Chicago, IL: University of Illinois at Chicago.

Ma, X., **Jong**, C., & Yuan, J. (2013). Exploring reasons for the east asian success in pisa. In H.D. Meyer and A. Benavot (Eds.), *PISA, power, and policy: The emergence of global educational governance* (pp. 225-245). Oxford, United Kingdom: Symposium Books.

Hobson, R.S., **Jong**, C., Dockery, D.J., Hermann, M., & Carter, T.J. (2013). Pilot study: An exploration of the experiences that influence women's interest, pursuit, and continued involvement in STEM careers (Paper #6084). *Proceedings of the 120th American Society for Engineering Education*. Atlanta, Georgia.

Hodges, T.E., & **Jong**, C. (2012). Exploring changes in preservice teachers' conceptions within the context of mathematics experiences. In Van Zoest, L.R., Lo, J.-J., & Kratky, J.L. (Eds) *Proceedings of the 34rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (709-712). Kalamazoo, MI: Western Michigan University.

Welder, R.M., & **Jong**, C. (2012). Examining connections between mathematical knowledge for teaching and conceptions about mathematics teaching and learning. In Van Zoest, L.R., Lo, J.-J., & Kratky, J.L. (Eds) *Proceedings of the 34rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (773-776). Kalamazoo, MI: Western Michigan University.

Cochran-Smith, M., McQuillan, P., Mitchell, K., Terrell, D.G., Barnatt, J., D'Souza, L., **Jong**, C., Shakman, K., Lam, K., & Gleeson, A. (2012). A longitudinal study of teaching practice and early career decisions: A cautionary tale. *American Educational Research Journal*, 49 (5), 844-880.

Mitescu, E.N., Pedulla, J.J., **Jong**, C., Canady, M.A., & Cochran-Smith, M. (2011). Measuring Practices of Teaching for Social Justice in Elementary Mathematics Classrooms. *Educational Research Quarterly*, 34 (3), 15-39.

Jong, C., & Hodges, T.E. (2011). (Re)shaping elementary preservice teachers' attitudes towards mathematics. In Wiest, L. R., & Lamberg, T. (Eds.) *Proceedings of the 33rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (1304-1312). Reno, NV: University of Nevada, Reno.

Welder, R.M., Hodges, T. E., & **Jong**, C. (2011). Measuring changes in teachers' beliefs, attitudes, and dispositions related to experiences in mathematics. In Wiest, L. R., & Lamberg, T. (Eds.) *Proceedings of the 33rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (2118-2125). Reno, NV: University of Nevada, Reno. ***Equal Authorship**

Jong, C., Pedulla, J.J., Mitescu, E.N., Salomon-Fernandez, Y., & Cochran-Smith, M. (2010). Exploring the link between reformed teaching practices and pupil learning in elementary school mathematics. *School Science and Mathematics Journal*. 110 (6), 309-326.

Cochran-Smith, M., & the **Boston College Evidence Team**. (2009). "Re-culturing" teacher education: Evidence, inquiry, and action. *Journal of Teacher Education*. 60 (5), 458-468.

McQuillan, P., **Jong, C.**, D'Souza, L., Mitchell, K., Lam, K., Shakman, K., et al. (2009). Pieces that matter in teacher education: The synergy of social justice, inquiry-into-practice, and meeting the needs of diverse learners. *Asian Journal of Educational Research & Synergy*, 1(2), 47-65.

Cochran-Smith, M., Shakman, K, **Jong, C.**, Terrell, D., Barnatt, J., & McQuillan, P. (2009). Good and just teaching: The case for social justice in teacher education. *American Journal of Education*, 15 (3), 347-377.

Other Publications

Jong, C. (2012). Social network theory and educational change: A book review. *Journal of Educational Research*, 105 (2), 1-2.

Salomon-Fernandez, Y., Barnatt, J., & **Jong, C.** (2007). *Achievement gap grant initiatives evaluation: Best practice report*. Evaluation commissioned by: Boston Public Schools Office of Equity, Boston, Ma.

Jong, C. (2006). Kids who think outside the box: Helping your unique child thrive in a cookie-cutter world: A book review. *TEACHING Exceptional Children Plus*, 3(1) Article 4. Retrieval from <http://escholarship.bc.edu/education/tecplus/vol3/iss1/art4>

National and International Conference Presentations

Schack, E. O., Fisher, M. H., **Jong, C.**, & Thomas, J. (2015). Flowcharts to evaluate responses to video-based professional noticing assessments. Paper presented at the *37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (East Lansing, MI).

Hodges, T. E., & **Jong, C.** (2015). Site-based mathematics methods coursework: The development of attitudes and theory-practice connections. Paper presented at the *37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (East Lansing, MI).

Thomas, T., **Jong, C.**, Schack, E. O., Fisher, M. H., Wilhelm, J., Stockero, S. (2015). *Teacher Noticing: Measuring A Hidden Skill of Teaching*. Working Session for the International Group for the Psychology of Mathematics Education (East Lansing, MI).

Jong, C., D'Souza, L., Terrell, D.G., Barnatt, J., Gleeson, A., & Mitchell, K. (2015).

Figured Worlds of Learning to Teach: Identity and Disequilibrium in Early Career Trajectories. Paper presented at the annual meeting of the American Educational Research Organization (Chicago, IL).

Terrell, D.G., Barnatt, J., D'Souza, L., Gleeson, A., & Mitchell, K. & **Jong, C.** (2015). Figured Worlds of Learning to Teach: Interpreting Early Career Trajectories. Paper presented as part of the State and Regional Educational Research Associations Distinguished Paper Session 1 at the annual meeting of the American Educational Research Organization (Chicago, IL).

Jong, C., Schack, E. O., Thomas, J., & Fisher, M. H. (2015). Flowcharts to Assess Professional Noticing: Methods for Coding Open-ended Responses. Paper Presented at the Research Conference of the National Council of Teachers of Mathematics (Boston, MA).

Jong, C. & Hodges, T.E. (2015). Assessing Preservice Teachers' Attitudes towards Mathematics Over Time. Presented at the Annual Conference of the Research Council on Mathematics Learning (Las Vegas, NV).

Fisher, M. H., Schack, E. O., Wilhelm, J., Thomas, T., McNall-Krall, R., **Jong, C.** (2014, July). *Teacher Noticing: A Hidden Skill of Teaching*. Working Session for the International Group for the Psychology of Mathematics Education (Vancouver, British Columbia).

Cummane, T., Flannery, B., Roark, B., Fisher, M. H., & **Jong, C.** (2014). Using Professional Noticing in Elementary School Mathematics. Presented at the National Conference on Undergraduate Research (Lexington, KY).

Schack, E. O., Eisenhardt, S., Fisher, M. H., **Jong, C.**, Tassell, J. & Thomas, J. (2014, April). *An Instructional Model to Develop Preservice Teachers Professional Noticing Skills*. Presented at National Council of Teachers of Mathematics, Research Conference (New Orleans, LA).

Fisher, M. H., Thomas, J. Eisenhardt, S., Schack, E. O., **Jong, C.**, & Tassell, J. (2014, April). *Correlating Professional noticing and Mathematics Knowledge for Teaching*. Paper Presented at National Council of Teachers of Mathematics, Research Conference (New Orleans, LA).

Jong, C., & Hodges, T.E. (2014, February). *Preservice teachers' conceptions in context: Teaching mathematics for social justice*. Presented at the Annual Conference of the Association of Mathematics Teacher Educators (Irvine, CA).

Jong, C., & Jackson, C. (2013). Examining preservice teachers' conceptions about teaching mathematics for social justice. Paper presented at the *35th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Chicago, IL).

Hodges, T.E., **Jong**, C., & Royal, K.D. (2013). The development of attitudes about mathematics during preservice teacher education. Paper presented at the *35th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Chicago, IL).

Schack, E., Fisher, M., Thomas, J., **Jong**, C., & Eisenhardt, S. (2013) Learning to Professionally Notice: Preservice Elementary Teachers' Attitudes Toward Mathematics in Context. Paper presented at the *35th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Chicago, IL).

Ma, X., **Jong**, C., & Yuan, J. (2013, June). *Using PISA data to investigate East Asian academic success*. Paper presented at the annual Hawaii University International Conference on Education and Technology (Honolulu, HI).

Jong, C., & Hodges, T.E. (2013, April). *Examining Changes in Preservice Teachers' Productive Disposition for Teaching Mathematics within Teacher Education Experiences*. Paper presented the Annual Meeting of the American Educational Research Association (San Francisco, CA).

Jackson, C., & **Jong**, C. (2013, January). Preservice Elementary Teachers' Understandings of Equity in Teaching Mathematics. Presented at the Annual Conference of the Association of Mathematics Teacher Educators (Orlando, FL).

Jong, C. & Welder, R.M. (2013, January). *Exploring Preservice Elementary Teachers' Co-development of Mathematical Knowledge for Teaching and Conceptions about Mathematics*. Presented at the Annual Conference of the Association of Mathematics Teacher Educators (Orlando, FL).

Hodges, T.E., **Jong**, C. (2012). Exploring changes in preservice teachers' conceptions within the context of mathematics experiences. Paper presented at the *34rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Kalamazoo, MI).

Welder, R.M., **Jong**, C. (2012). Examining connections between mathematical knowledge for teaching and conceptions about mathematics teaching and learning. Paper presented at the *34rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Kalamazoo, MI).

Jong, C. (2012, April). *Order and equivalence: Developing fraction sense through multiple representations*. Presented at the Annual Meeting of the National Council of Teachers of Mathematics (Philadelphia, PA).

Welder, R.M., Hodges, T.E., & **Jong**, C. (2012, April). *Measuring teachers' dispositions, attitudes, and beliefs over time*. Presented at the Research Presession of the National Council of Teachers of Mathematics (Philadelphia, PA).

Jong, C., Hodges, T.E., & Welder, R.M. (2012, April). *Conceptions of mathematics in related contexts: Measuring elementary teachers' development over time*. Paper presented at the Annual Meeting of the American Educational Research Association (Vancouver, Canada).

Jong, C., & Hodges, T.E. (2012, February). *Measuring preservice teachers' dispositions toward teaching mathematics for social justice*. Presented at the Annual Conference of the Association of Mathematics Teacher Educators (Fort Worth, TX).

Hodges, T.E., **Jong, C., & Welder, R.M.** (2012, February). *Relationships between preservice elementary teachers conceptions of mathematics, field experiences, and methods coursework*. Presented at the annual conference of the Association of Mathematics Teacher Educators (Fort Worth, TX).

Jong, C., Hodges, T.E. (2011, October). *(Re)shaping elementary preservice teachers' attitudes towards mathematics*. Paper presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (Reno, NV).

Welder, R.M., Hodges, T. E., **Jong, C.** (2011, October). *Measuring changes in teachers' beliefs, attitudes, and dispositions related to experiences in mathematics*. Paper presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (Reno, NV).

McQuillan, P., Cochran-Smith, M., Barnatt, J., D'Souza, L., **Jong, C., Shakman, K., Terrell, D.G., Lam, K., Gleeson, A., Mitchell, K.** (2011, April). *Fit as causal process: Understanding teaching practice and career moves*. Paper presented at the annual meeting of the American Educational Research Association (New Orleans, LA).

Hodges, T., **Jong, C., & Welder, R.M.** (January, 2011). *Elementary teacher candidates: A survey of beliefs, attitudes, and experiences in mathematics*. Poster presented at the STaR Gallery Walk in the annual meeting of the Association of Mathematics Teacher Educators (Irvine, CA).

Edwards, B., Gerberry, C., Hill, C., **Jong, C., Johnson, D., Vomvoridi-Ivanovic, E., et al.** (January, 2011). *How do preservice teachers across contexts and grades make sense of teaching mathematics for social justice?* Poster presented at the STaR Gallery Walk in the annual meeting of the Association of Mathematics Teacher Educators (Irvine, CA).

Cochran-Smith, M., McQuillan, P., **Jong, C., D'Souza, L., Barnatt, J., Shakman, K., et al.** (2010, April). *Who's fit to teach: A longitudinal cross-case analysis of teaching practices and career trajectory*. Paper presented at the annual meeting of the American Educational Research Association (Denver, CO).

Jong, C. (2009, March). *Access to Algebra: Helping Teachers Develop Relational Thinking in K-6 Students*. Gallery Workshop presented at the annual meeting of the National Council of Teachers of Mathematics (Washington, DC).

McQuillan, P., **Jong, C., D'Souza, L., Mitchell, K., Lam, K., Shakman, K., et al.** (2009, April). *Pieces that matter in teacher education: The synergy of social justice, inquiry-into-practice, and meeting the needs of diverse learners*. Paper presented at the annual meeting of the American Educational Research Association (San Diego, CA).

Jong, C. (2008, April). *Assessing what counts: Opportunities and outcomes in elementary mathematics*. Paper presented at the research pre-session of the National Council of Teachers of Mathematics (Salt Lake City, UT).

Jong, C. (2008, March). *Deviating from the mean: Reform-oriented teaching and learning in elementary mathematics*. Paper presented at the annual meeting of the American Educational Research Association (New York, NY).

Anderson, J., **Jong, C.** and Barnett, M. (2008, March). *Virtual world, real impact: Gender, race and the use of a 3D virtual world to teach concepts around water quality*. Paper presented at the annual meeting of the American Educational Research Association (New York, NY).

Jong, C. (2007, February). *Connecting the pieces: Examining the variables that have an impact on preservice teachers in mathematics education*. Paper presented at the annual meeting of the American Association of Colleges of Teacher Education (New York, NY).

Ludlow, L.H., Barnatt, J., Salomon, Y., **Jong, C.** & Shakman, K. (2005, April). *Teachers for a new era evidence issues*. Roundtable presentation at the annual meeting of the American Educational Research Association (Montreal, Canada).

State and Regional Conference Presentations

Thomas, J., Schack, E. O., Tassell, J., **Jong, C.**, & Kinne, L. (2015). Elementary Preservice Teacher Preparation Collaborative: Initiating and sustaining a multi-institutional research venture. Presented at the Kentucky Mathematics Educator Development Conference (Richmond, KY).

Jong, C., Hume, B., & Dowty, H. (2015). Research and Practice in Multi-digit Alternative Algorithms. Presented at the Kentucky Center for Mathematics Conference (Lexington, KY).

Terrell, D.G., Barnatt, J., D'Souza, L., **Jong, C.**, Gleeson, A., & Mitchell, K. (2014). Figured worlds of learning to teach: Interpreting early career trajectories. Paper presented at the annual meeting of the New England Educational Research Organization (West Dover, VT).

***Rubovits Award for Best Paper**

Jong, C., Jackson, C., & Miller, M. (2013). *Understanding preservice teachers' conceptions about teaching mathematics for social justice*. Presented at the Regional Conference of the National Council of Teachers of Mathematics (Louisville, KY).

Magruder, R., & **Jong, C.** (2013). *Beyond cookies: Understanding various division models*. Gallery Workshop presented at the Regional Conference of the National Council of Teachers of Mathematics (Louisville, KY).

Jong, C. (2012, March). *Access to algebra: Helping k-5 students develop relational thinking*. Presented at the Kentucky Council of Mathematics Annual Conference (Lexington, KY).

Jong, C. & Magruder, R. (2012). *Examining Preservice Elementary Teachers' Conceptions of Mathematics Teaching and Learning*. Presented at the University of Kentucky Third Annual STEM Symposium (Lexington, KY).

Jong, C. (2010, March). *Access to algebra: Helping teachers develop relational thinking in K-6 students*. Presented at the Virginia Council of Teachers of Mathematics Annual Conference (Harrisonburg, VA).

Jong, C. (2010, March). *Assess for Success: Focus on Understanding*. Presented at the Greater Richmond Council of Teachers of Mathematics spring conference (Richmond, VA).

Cochran-Smith, M., **Jong, C.**, Barnatt, J., D'Souza, L., Miller, G., Shakman, K. (2006, April). *Studying learning to teach*. Paper presented at the annual meeting of the New England Educational Research Organization (Portsmouth, NH).

Cochran-Smith, M., Ludlow, L.H., Barnatt, J., Salomon-Fernandez, Y., Shakman, K., **Jong, C.** (2005, April). *From teacher education to pupil learning: Evidence matters*. Paper presented at the annual meeting of the New England Educational Research Organization (Northampton, MA).

Invited Presentations

Jong, C. (2014, April). *Mathematics Experiences and Conceptions Surveys: Measuring Preservice Elementary Teachers' Mathematics Conceptions and Experiences Over Time*. The University of Arizona Mathematics Department Colloquium.

Grants (Awarded)

Thomas, J. (PI), Fisher, M.H. (PI), Schack, E.O. (PI), **Jong, C.** (Co-PI), Gabbard, A. (Senior Personnel), Goodson-Espy, T (Senior Personnel). (Aug. 2014 - July 2017). Collaborative Research: Project TECHNO: Technology-Centered Mathematical Noticing. **NSF IUSE Grant, \$500,000 Total (\$209,000 for UK). (AWARDED)**

Evaluating Mathematics Teacher Education Programs Over Time. Proposal submitted to **UK Summer Fellowship for \$7,000 in December 2012**. Principal Investigator: **Cindy Jong. (AWARDED)**

Supporting Undergraduate Research Fellows in Timely STEM Education Research via the University of Kentucky's STEM Educational Research Laboratory. Proposal submitted to the **National Science Foundation, REU for \$316,000 in September 2012**. Principal Investigators: Molly Fisher and Jennifer Wilhelm. Senior Personnel: **Cindy Jong**, Christa Jackson, Margaret Mohr-Schroeder, and Rebecca Krall. **(AWARDED)**

Grants (Unfunded)

Hodge, L. (PI), Hodges, T.E. (PI), **Jong, C. (PI)**, (submitted January 2014). Collaborative Research: By Design: Collaborative Communities and Meaningful Math (C2M2). NSF AISL Grant, \$250,000. **(not awarded)**

Thomas, J. (PI), Fisher, M.H. (PI), Schack, E.O. (Co-PI), **Jong, C.** (Co-PI), Murphy, T.J. (Co-PI).
(*submitted September 2013*) Project TECHNO: Technology-Centered Mathematical Noticing.
Kentucky Department of Education MSP Grant, \$320,000. (**not awarded**)

Collaborative Research: Extending the Mathematics Conceptions and Experiences Surveys (MECS) to Evaluate the Impact of Mathematics Teacher Education Over Time. **Proposal submitted to the National Science Foundation for \$208,000 in February 2013.**
Promoting Research and Innovations in Methodologies for Evaluation (PRIME- Solicitation).
Principal Investigators: Thomas Hodges (University of South Carolina) and **Cindy Jong.** (**not awarded**)

Designing Instruments to Evaluate and Improve Mathematics Teacher Education. **Proposal submitted to the Spencer Foundation for \$40,000 in February 2013.**
Principal Investigators: Thomas Hodges (University of South Carolina) and **Cindy Jong.** (**not awarded**)

Collaborative Research: Project TECHNO: Technology-Centered Mathematical Noticing.
Proposal submitted to the National Science Foundation for \$599,000 in January 2013.
Transforming Undergraduate Education in STEM (TUES- Solicitation). Principal
Investigators: Jonathan Thomas (NKU), Edna Shack (MSU), and Molly Fisher (UK); co-PI:
Cindy Jong. (**not awarded**)

Learning Math in Rural Communities: Reaching Beyond School. **Proposal submitted to the National Science Foundation for \$7,991,713 in December 2012.** Mathematics Science Partnership (MSP- Solicitation). Principal Investigators: Eugenia Toma; co-PIs: Joshua Cowen, J.S. Butler, Carl Lee, **Cindy Jong**, David Royster, and Kim Zeidler. (**not awarded**)

Mathematics Conceptions and Experiences Surveys (MECS). **Proposal submitted to the National Science Foundation for \$248,000 in January 2012.** Promoting Research and Innovations in Methodologies for Evaluation (PRIME- Solicitation 12-508). Principal Investigator: **Cindy Jong**; Co- Principal Investigators: Thomas Hodges and Rachael Welder. (**not awarded**)

Mathematics Conceptions and Experiences Surveys: Designing Instruments to Examine the Development of Elementary Mathematics Teachers. **Proposal submitted to the Spencer Foundation for \$39,500 in December 2011.** Principal Investigator: **Cindy Jong**; Co-Principal Investigators: Rachael Welder and Thomas Hodges. (**not awarded**)

Evaluating Mathematics Teacher Education Experiences Over Time. **Proposal submitted to UK Summer Fellowship for \$7,000 in December 2011.** Principal Investigator: **Cindy Jong.** (**not awarded**)

Mathematics Conceptions and Experiences Surveys: Designing Instruments to Inform and Improve the Development of Elementary Mathematics Teachers. **Proposal submitted to the Spencer Foundation for 359,800 in November 2011.** Principal Investigator: **Cindy Jong**; Co- Principal Investigators: Rachael Welder and Thomas Hodges. (**not awarded**)

An Exploration of Formal and Informal Learning Experiences on STEM versus Traditional Career Choices Among Women. **Proposal submitted to the National Science Foundation for \$525,000 in March 2011.** Principal Investigator: Mary Hermann; Co-Principal Investigators: Donna Dockery, Terry Carter, **Cindy Jong**, and Whitney Sherman (**not awarded**)

Honors and Awards

Research:

Rubovits Award for Best Paper presented at the annual conference of the New England Educational Research Organization, 2015

Committee on Scholars of Color in Education: Research-Mentoring Program, AERA 2012

Division K New Faculty Seminar, AERA 2011

STaR Fellow, 2010-2011 National
Science Foundation funded Mentorship Project for Early Career Mathematics and
Mathematics Education Faculty

Boston College Lynch School of Education Dissertation Fellowship, 2008-09 (\$18,000)

National Center for Educational Statistics (NCES) International Database Training Seminar,
June 2007

Mathematical Thinking using Cognitively Guided Instruction (\$1,000) UNLV
Undergraduate Research Grant, Spring 2002

Teaching:

University of Kentucky College of Education *Teacher Who Made a Difference Award*, 2014

Boston College *Donald J. White Teaching Excellence Award*, 2008

Boston College *Teaching Fellowship*, 2007

Teaching Experience

University of Kentucky – Lexington, KY
Teaching Mathematics in the Elementary School (Undergraduate Course) Instructor:
Instructor: Fall 2011- present

Equity in STEM Education (Graduate Course)
Instructor: spring 2016

Research in STEM Education (Graduate Course)
Instructor: Spring 2014

History of STEM Education (Graduate Course)
Instructor: Spring 2012- present

Intro to STEM Education (Undergraduate Course)
Instructor: Fall 2012

Virginia Commonwealth University – Richmond, VA
Teaching Mathematics for Elementary Education
Instructor: Fall 2009 to Spring 2011

Leadership in Mathematics Education (co-taught)
Instructor: Fall 2010

Boston College – Chestnut Hill, MA
Teaching Mathematics and Technology in the Elementary School
Instructor: Fall 2008 (graduate section)
Instructor: Fall 2007 (undergraduate section) ~Course Evaluations: 4.7/5.0 *Awarded
Boston College Donald J. White Teaching Excellent Award
Teaching Assistant: Fall 2006
Mathematics Lab Instructor: Fall 2005 – Spring 2006

Salem State College – Salem, MA
Mathematics for Elementary and Middle School Teachers Co-
Instructor: August 2006 (graduate summer course)

Mountain View Elementary School – Las Vegas, NV
2nd Grade, Teacher: August 2002- July 2004

CSUN/UNLV Preschool – Las Vegas, NV
Teaching Assistant, August 2000- January 2002

National Service

AERA- 2014-2016 Division K, co-Chair of the Mathematics, Science, and Technology Section

AERA- Division K, Mentor to 3 New Faculty Members, 2015

NCTM – 2013 Annual Meeting Planning Committee

NCTM – Reviewer for the *Journal for Research in Mathematics Education*, 2009 to Present

NCTM- Reviewer for *Teaching Children's Mathematics*, 2011 to Present

School Science and Mathematics Journal- Reviewer, 2013 to Present

Mod4- University of Michigan: Pilot Teacher Education Materials and Provide feedback/recommendations for Revisions, *Fall 2008 to Spring 2010*

AERA and NCTM –Reviewer for Annual Meeting Conference Proposals, *2008 to Present*

PME-NA - Reviewer for Annual Meeting Conference Proposals, *2011 to Present*

State, Regional, and University Service

UK- University Senator, *2012-2015*

UK- Library Committee, *2012-2015*

VCU- Library Committee, *2010-2011*

Virginia Department of Education –Reviewer for the Mathematics Science Partnership Grants, *Fall 2009*

Massachusetts Department of Higher Education- Reviewer for the STEM Pipeline Grants, *Spring 2009*

VCU- da Vinci Center for Innovation in Product Design and Development: Advised students working on a project for the VDOE to enhance their website, *Fall 2010*

College of Education and Department Service

UK COE- Inclusiveness Committee, 2014 – *present* (became co-Chair in 2015)

UK COE- Chair of Search Committee for Tenure-track Mathematics Education Position (successfully hired Jonathan Thomas), *2014*

UK COE- Volunteer as Faculty Mentor to 3 Undergraduate Students, *2013-2014*

UK COE- STEM Representative Faculty on Ed Life LLC, *2013-2014*

UK COE- Library Committee, *2012- present*

UK COE- Technology Committee, *2011- present*

UK COE- Elementary Education Program Committee, *2011- present*

VCU SOE- Diversity Committee, *2010-2011*

VCU Department of Teaching and Learning: Early/Elementary Science Education Faculty Search Committee, *Fall 2010*

VCU Department of Teaching and Learning: Curriculum and Instruction Faculty Search Committee, *Fall 2010*

VCU SOE- Search Committee for Instructional Technology Specialist position, *Spring 2010*

VCU Department of Teaching and Learning: Early/Elementary Education Program Committee- Active Member, *2009-2011*

VCU SOE- Grade Appeal Committee, *Fall 2009*

Professional Development

Committee on Scholars of Color in Education, New Faculty Mentoring participant, AERA Annual Meeting, April 2012 Vancouver, Canada

An Interdisciplinary Conference on Assessment in K-12 Mathematics: Collaborations Between Mathematics Education and Psychometrics, sponsored by the National Science Foundation. Atlanta, GA September 25-27, 2011. IRT Workshop Participant

Division K New Faculty Seminar, AERA Annual Meeting, April 2011 New Orleans, LA

Association of Mathematics Teacher Educators, Annual Meeting, January 27-30, 2010 Irvine, CA. Participation in STaR Fellowship

STaR Summer Institute, July 11-16, 2010 Park City, Utah
Sessions were designed to help New Mathematics and Mathematics Education Assistant Professor across the Nation improve their Research, Teaching, and Service Directors: Robert and Barbara Reys (University of Missouri)

Learning Mathematics for Teaching (LMT) Instrument Dissemination Workshop, April 29, 2010 Denver, Colorado (AERA 2010)
Participants learned how to Implement LMT and Analyze responses Directors: Heather Hill (Harvard University) and Geoffrey Phelps (University of Michigan)

What We Have Learned Symposium, December 1-2, 2009
Dissemination and Discussion of NSF-funded Mathematics Specialist Programs across the Commonwealth of Virginia; Participants from VCU, UVA, VT, JMU, and GMU. Hosted by VCU in Richmond, VA

Mod4 Mathematics Knowledge for Teaching, Fall 2009- present
Pilot Curriculum Materials in courses and Provide Feedback
Attended Mod4 Camp to revise materials (December 2009)
Directors: Deborah Ball, Hyman Bass, and Kara Suzuka (University of Michigan)

National Center for Educational Statistics International Database Training, Washington, DC: June 2007

Professional Affiliations

American Educational Research Association (Division K; SIG-RME)
National Council of Teachers of Mathematics
School Science and Mathematics Association
Psychology of Mathematics Education- North America
Association of Mathematics Teacher Educators
Kentucky Council of Mathematics
Kentucky Council of Teachers of Mathematics