

SONYA E. IRVING

150 Terrace Drive • 401 White Hall • Kent, OH 44243 • 330-672-0633 • sirving@kent.edu

EDUCATION AND CERTIFICATION

Doctor of Philosophy, Curriculum and Instruction (December 2014)

University of Illinois at Urbana-Champaign, Graduate College of Education

Master of Education, School Leadership (June 2007)

Harvard Graduate School of Education, Cambridge, MA

English as a Second Language Certification (February 2003)

Elementary Self-Contained Certification, Grades 1 – 6 (July 2001)

Texas State Board for Educator Certification

Bachelor of Business Administration, International Business (May 1997)

Howard University, Washington, DC

PROFESSIONAL EXPERIENCE

Kent State University; School of Teaching, Learning & Curriculum Studies, Kent, OH (08/2013 – present)

Assistant Professor, Mathematics Education

- Develop in teacher candidates knowledge of constructivist theories, materials, and methods used to teach mathematics in the contemporary classroom for grades K-12
- Reconstruct students' understandings of key mathematical concepts through hands-on examples, group interactions, reflections, and classroom activities with a focus on student thinking and mathematical sense making
- Guide pre-service teachers to create and implement differentiated lessons that promote the Common Core State Standards for Mathematical Practice, employing various instructional strategies and techniques
- Supervise and support teacher candidates in elementary, middle, and high school classrooms
- Facilitate the planning, preparation, and implementation of Family Math Night events at local elementary and middle schools

Educational Service Center of Lorain County, Elyria, OH (10/2018 – 03/2019)

Mathematics Education Consultant

- Presented workshops for the county's mathematics teachers on mapping the revised Ohio Learning Standards for Mathematics
- Helped school districts create mathematics curriculum maps for Pre-Kindergarten through grade 12

University of Illinois at Urbana-Champaign; College of Education, Champaign, IL (08/2007 – 05/2012)

Instructor; Graduate Research Assistant

- Designed and implemented lesson plans to deepen pre-service elementary teacher's understanding of mathematics and how children's mathematical thinking develops, discuss methods of teaching mathematics, and cultivate a productive disposition toward mathematics
- Investigated the development of knowledge, skills, and dispositions of pre-service secondary mathematics teachers who plan to teach in schools serving marginalized students

YES Prep Public Schools, Houston, TX (06/2003 – 08/2008)

Middle School Math Teacher; Math Lab Coordinator; Curriculum Developer; Mentor; Grade Level Chair

- Led students to achieve more than two years academic growth in mathematics
- Designed and implemented a mathematics lab to support struggling middle school students
- Applied backward design to write sixth grade math curriculum for the YES District
- Drafted cumulative sixth grade math fall and end of year district assessments

Richard J. Murphy K-8 School, Boston, MA (10/2006 – 05/2007)

Graduate Intern

- Examined student data to identify and address trends in achievement disparities
- Facilitated the collaboration of teachers in identifying student learning goals, designing lessons and gathering evidence of student learning through Japanese lesson study

Teach For America, Houston, TX (06/2002 – 06/2004); Los Angeles, CA (Summer 2007)

Content Team Leader; Corps Member Advisor

- Served as the primary coach and mentor to prepare pre-service middle school teachers to maximize their impact on student achievement
- Observed teacher trainees and identified key levers to increase student achievement
- Facilitated planning sessions to increase effectiveness of teacher trainees' lesson plans
- Planned and facilitated meetings of colleagues focused on the teaching and learning of mathematics
- Used a variety of strategies to promote trust-building, collaboration, reflective practice, and documentation of student learning

David G. Burnet Elementary School, Houston, TX (08/2000 – 06/2003)

Teacher; School Decision Making Committee Member; Mentor; Grade Level Chair

- Instructed primary and intermediate students in all core subjects
- Planned school-wide events for campus of over 400 students
- Mentored new teachers to assist in the analysis and improvement of teaching

Hohota Vocational School, United States Peace Corps, Bénin, West Africa (09/1997 – 12/1999)

Teacher; Small Business Development Advisor

- Designed a three-year curriculum to prepare underserved teenage girls for self-sufficiency
- Developed lesson plans and evaluative tools for business, math, and health classes
- Trained Peace Corps volunteers in technical, language, cross-cultural and health sessions
- Edited a technical and cultural resource manual used throughout West Africa

PUBLICATIONS AND TECHNICAL REPORTS

- Gutiérrez, R., Gerardo, J. M., Vargas, G. E., & Irving, S. E. (2018). Rehearsing for the politics of teaching mathematics. In S. E. Kastberg, A. M. Tyminski, A. E. Lischka, & W. B. Sanchez (Eds.), *Building support for scholarly practices in mathematics methods* (pp. 149-164). Charlotte, NC: Information Age Publishing.
- Gutiérrez, R., & Irving, S. E. (2013). Making mathematics matter for Black and Latin@ students. In R. E. Wolfe, A. Steinberg & N. Hoffman (Eds.), *Anytime, anywhere: Student centered learning for schools and teachers*, pp. 123-152. Cambridge, MA: Harvard Education Press.
- Irving, S. E. (2010). *YES Prep Public Schools, SE Campus Mathematics Department evaluation report*.
- Grayson, T., Irving, S. E., & Goetz, J., (2009). *University of Illinois housing assignment process: First-year undergraduate student housing assignments focus group research report*.
- Cheng, Y., Irving, S. E., Leuszler, H., Miller, B., & Neeper, L. (2008). *Exploring pathways in career success (EPICS): A web-based program of The Career Center evaluation report*.

PROFESSIONAL MEMBERSHIPS

- National Council of Teachers of Mathematics
- Association for Supervision and Curriculum Development
- National Peace Corps Association

HONORS AND RECOGNITION

- Institution Faculty of the Month, National Residence Hall Honorary, Kent State University (2014)
- UIUC College of Education's Outstanding Teaching Award for Teaching Assistants (2010-2011)
- Max Beberman Mathematics Education Award (2009-2010)
- National Council of Negro Women Living the Legacy Award (2008)
- University of Illinois at Urbana-Champaign Graduate College Fellowship (2007-2008)
- Harvard University Urban Scholars Fellowship (2006-2007)
- YES Prep Shout-Out Award for Teaching Excellence (2005-2006)
- Houston Independent School District Campus Teacher of the Year (2002-2003)
- Houston Area Alliance of Black School Educators Campus Teacher of the Year (2002-2003)