

**Kwaku Adu-Gyamfi , Ph.D.**  
**Mathematics, Science and Instructional Technology Education**  
**College of Education**  
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## **Academic Background**

Doctor of Philosophy, Mathematics Education, North Carolina State University, Raleigh, NC, 2007  
Master of Arts in Education, Mathematics Education, North Carolina State University, Raleigh, NC, 2003  
Bachelor of Science, Mathematics, University of Cape Coast, Cape Coast, Ghana, 1998  
Diploma in Education, University of Cape Coast, Cape Coast, Ghana, 1998

## **Memberships**

American Educational Research Association (AERA), 2009-Present  
National Council for Teachers of Mathematics (NCTM), 2009-Present  
Association Of mathematics Teacher Education (AMTE), 2007-Present  
North Carolina Council of Teachers of Mathematics (NCCTM), 2007-Present  
Phi Delta Kappa, 2007-Present

## **Academic Experience**

Associate Professor, East Carolina University (2013 - Present)  
Assistant Professor, East Carolina University (2007 - 2013)  
University Supervisor, North Carolina State University (2006 - 2007)  
Research Assistant, North Carolina State University, Raleigh NC (2005-2006)  
Developmental Math Coordinator, North Carolina State University (2003-2005)  
Teaching Assistant, North Carolina State University (2001-2005)

## **Mathematics Education Courses Taught**

### **Undergraduate**

Functional Relationships  
Technology in Secondary Mathematics Education  
Teaching Mathematics in the Elementary Grades K-6  
Internship in Mathematics  
Internship Seminar: Issues in Mathematics Education  
Mathematics and Methods for Grades P-K-2  
Teaching Mathematics in the Elementary Grades K-6

### **Graduate**

Capstone Project in Mathematics Education  
Technology in Mathematics Education  
Data Analysis & Probability in the Middle Grades  
Research in Mathematics Education  
Leadership in Mathematics Education  
Assessment in Mathematics Education  
Current Topics in Mathematics Education

## Publications

Bosse, M., Adu-Gyamfi, K., & Chandler, K. (2014). Students' Differentiated Translation Processes between Graphical and Algebraic Representations. Accepted to *International Journal of Mathematics Teaching and Learning*.

Lee, H., Kersaint, G., Harper, S. R., Driskell, S. O., Jones, D. L., Leatham, K.R., Angotti, R. L., Adu-Gyamfi, K. (2014). Teachers' use of transnumeration in solving statistical tasks with dynamic statistical software, Accepted to *Statistics Education Research Journal*.

Adu-Gyamfi, K. & Bosse, M. J. (2014). Processes and Reasoning in Representations of Linear Functions. *International Journal of Science and Mathematics Education*, 12 (1), 167-192.

Adu-Gyamfi, K., Stiff, L., & Bosse, M. (2012). Lost in Translation: Examining Translation Errors Associated with Mathematics Representations. *School Science and Mathematics*, 112 (3), 159-170.

Bosse, M., Adu-Gyamfi, K., & Cheetham, M. (2011). Assessing the Difficulty of Mathematical Translations: Synthesizing the Literature and Novel Findings. *International Electronic Journal of Mathematics Education*, 6 (3), 113-133.

Bosse, M. & Adu-Gyamfi, K. (2011). Stop Teaching and Let the Students Learn Geometry. *Mathematics Teacher*, 105 (4), 293-297.

Bosse, M., Adu-Gyamfi, K., & Cheetham, M. (2011). Translations among Mathematical Representations: Teacher Beliefs and Practices. *International Journal of Mathematics Teaching and Learning*.

Adu-Gyamfi, K., Bossé, M., & Faulconer, J. (2010). Assessing understanding through reading and writing in mathematics. *International Journal of Mathematics Teaching and Learning*.

Adu-Gyamfi, K. & Okech, A. (2010). Ethics in research in mathematics education. *Journal of Academic Ethics*.

Bosse, M. & Adu-Gyamfi, K. (2009). -nspire Calculators: Better, But Still not Perfect. *Mathematics Teacher*.

## Presentations and Workshops

Adu-Gyamfi, K. & Thompson, A. (2014, February). *Implementing the CCSS-M: A case study of two high school teachers*. Research Council on Mathematics Learning Conference, San Antonio, Texas.

Thompson, A. & Adu-Gyamfi, K. (2014, February). *Implementing the edTPA in Mathematics Education at East Carolina University*. Research Council on Mathematics Learning Conference, San Antonio, Texas.

Adu-Gyamfi, K. (2013, November). *Mini-Session Magic: Assessment and the Common Core*. North Carolina Council of Teachers of Mathematics Annual Fall Conference, Goldsboro, North Carolina.

Preston, R., Adu-Gyamfi, K., & Bosse, M. (2012, April). *Mathematical Modeling and the Common Core State Standards (CCSS)*. National Council of Teachers of Mathematics, Philadelphia, Pennsylvania.

Knies, A. & Adu-Gyamfi, K. (2012, October). *A New Approach to an Old Algebra*. North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.

Cooper, R., Harrison, L., & Adu-Gyamfi, K. (2012). *Lights Camera Kinect*. North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.

Adu-Gyamfi, K. & Camut, B. (2012). *Experiencing Fractions Through Language Arts: Grades 3-5*. North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.

Adu-Gyamfi, K. (2010). *Connecting mathematical concepts to student interpretations of mathematical representations*. National Council of Teachers of Mathematics, San Diego, California.

Adu-Gyamfi, K. (2010). *Connecting mathematical concepts to interpretations of mathematical representation*. Association of Mathematics Teacher Educators Annual Meeting, Irvine, California.

Adu-Gyamfi, K. (2010). Walk the Walk and Talk the Talk: Connecting Mathematics & Real World Using the Calculator-Based Ranger, Greenville, North Carolina. NCCTM Gamma Chapter.

Bosse, M., Adu-Gyamfi, K., & Preston, R. (2009). *Learning Math as a Second Language*. Association of Mathematics Teacher Educators Annual Meeting, Orlando, Florida.

Adu-Gyamfi, K. (2010). *Connecting Multiple Representations: Equation solving a transforming experience with the Ti-nspire handheld*. Annual Conference of the North Carolina Council of Teachers of Mathematics, Greensboro, North Carolina.

Adu-Gyamfi, K. (2009). *Applications of Modern Technologies in Teaching Mathematics and it's Applications*. National Institute of Mathematical Sciences, Accra, Ghana.

Adu-Gyamfi, K. (2007, October). *Number Sense: Does Place Value Really Have Value in Our Numeration System*. North Carolina Council of Teachers of Mathematics Annual Fall Conference, Greensboro, North Carolina.

## Grants

College of Education Smart Classroom Grant (2007-2008): The Use of Smart Classroom Technology to Increase Pre-Service Teachers' Capacity to Educate Diverse Learners. Co-PI. Status: Funded. (Approximately \$100,000 in equipment, software and release time).

## SERVICE

### Chair:

2012-2013: MSITE Curriculum Committee:

### Member:

2013-2014: College of Education Graduate Task Force

2013-2014: Technology Committee

2013-2014: Mathematics Education Curriculum Revision Committee

2013-2014: ECU Initiative Committee

2011-2012: Curriculum Committee:

2010-2011: MSITE Strategic Planning Committee

2010-2011: Mathematics Education Area Committee

2009-2010: MAT Graduate Course for high school teachers

2012-2013: Upper Division Interview Panel

2008-2011: College of Education Advisory Council

**Other Institutional Service Activities:**

2013-2014: Faculty Sponsor North Carolina Council of Teachers of Mathematics Student Affiliate Gamma Chapter

2012-2013: Faculty Marshall

2012-2013: Faculty advisor Club Basketball

**Reviewer - Article / Manuscript**

2010-present: School Science and Mathematics

2013-Present: Computers in the Schools

**Member: Committee/Task Force**

2013-2014: Computers in the Schools. Member of the Editorial Board

2008-2009: North Carolina Association of Mathematics Teacher Educators (NC-AMTE), Southern Pines, North Carolina. Designing a K-5 Mathematics specialist certificate program

**Community Out-Reach**

2011-2012: Workshop for Teachers: Learning to use Technology for Teaching Senior High School Mathematics, Accra Ghana

2008-2009: Workshop on Teaching Mathematics with Graphing Calculators, Accra, Ghana