

G A R Y C H R I S T I E

(330) 704-3248

PROFESSIONAL BACKGROUND

Associate Professor in the School of Education

BALDWIN-WALLACE UNIVERSITY

2003 to present

Taught pre-service teachers current methods in early childhood mathematics education, middle childhood mathematics education, and adolescent/young adult mathematics education per the current reform movement of the National Council of Teachers of Mathematics and Common Core Standards of Mathematics. Taught Introduction to Education and Philosophies of Education (a graduate class). Taught Seminar for Clinical Practice. Taught First Year Experience. Served as college supervisor for education students working in clinical practice and field placements for methods. Provided service to the Division/School of Education by serving as chair for the New Markets Committee, chair for the Curriculum Committee, chair for the Enrollment & Retention Committee, chair of the Faculty Affairs Committee, and interim Early Childhood Coordinator. Provided service to the University by serving as chair of the Curriculum Advisory Committee (three years), chair of the Core Curriculum Review Subcommittee (two years), the Academic Services Advisory Committee, the Enrollment Committee, the Personnel Committee, chair of the Core Curriculum Committee, the Faculty Concerns Committee, chair of the Faculty Affairs Committee, interim Senate member, interim EXEC member, Counselor for Kappa Delta Pi, Advisor for student-organization STAND, secretary for Promotion in Rank Committee, chair for Promotion & Tenure Committee, and Service Learning Committee.

Mathematics Consultant

OUR LADY OF ANGELS/CLEVELAND DIOCESE

2012 to 2013

Volunteered to work with teachers of this K-8 school to help them better implement methods of teaching that emphasize the Eight Mathematical Practices of the Common Core

Mathematics Consultant

IREDELL/STATESVILLE SCHOOL DISTRICT

2012

Coached second, fourth, sixth, and ninth grade math teachers on how to implement the mathematics standards of the Common Core; in particular, modeled teaching of the eight Mathematical Practices of the Common Core, training for teaching of the Common Core, and conceptual math content.

Mathematics Consultant

PURITAS ELEMENTARY & MIDDLE SCHOOL

2009 to 2010

Coached K-8 teachers on best practices in mathematics education in line with the National Council of Teachers of Mathematics and the Mathematical Association of America.

Adjunct Professor

KENT STATE UNIVERSITY

2000 to 2003

Taught pre-service teachers in the best methods of middle school mathematics education, per the current reform movement and the National Council of Teachers of Mathematics (NCTM) Standards. Taught all majors in Developmental Mathematics and College Algebra. Monitored infield work of pre-service teachers.

Adjunct Professor
WALSH UNIVERSITY

2000 to 2003

Taught pre-service teachers conceptual mathematics per the current reform movement and the NCTM Standards. Taught all majors in Developmental Mathematics and College Algebra.

Mathematics Coach
MASSILLON CITY SCHOOLS

2003

Professionally developed in-service middle childhood mathematics teachers in the area of employing best methods, per the current reform movement and the NCTM Standards.

Doctoral Candidate
Curriculum & Instruction
Emphasis on Mathematics Education
KENT STATE UNIVERSITY

1998 to 2005

A generalist degree in education theory, with a strong emphasis in mathematics education. Responsible for teaching pre-service teachers in methods of elementary, middle school, and special education mathematics, per the current reform movement and the NCTM Standards. Taught Approaches to Teaching for all education majors. Founded and first president of the Doctoral Students Education Association.

Dissertation Topic: A Conceptual Approach for Teaching the Epsilon-Delta Concept in a Secondary Classroom.

Secondary Mathematics Teacher
FAIRLESS HIGH SCHOOL

1997 to 1998

Responsible for teaching higher mathematics courses, including calculus and pre-calculus, along with algebra and consumer mathematics. Coached academic challenge team.

Secondary Mathematics Teacher
TUSLAW HIGH SCHOOL

1996 to 1997

Responsible for tenth grade mathematics including the subjects of geometry and algebra; taught ninth grade honors mathematics. Integrated mathematics with English, history, and science for blocked content projects.

Secondary Mathematics Teacher
MASSILLON CITY SCHOOLS

Summer, 1995

Responsible for teaching developmental mathematics for students struggling in mathematics during the prior school year.

Mechanical Engineer
GOODYEAR TIRE & RUBBER, CO.

1986 to 1993,
1995 to 1996

Created innovative tire designs. Developed and procured new tire molds. Worked with carved tire vendors to create test tires of new and modified designs. Incorporated CADAM and Catia in design work and to construct 3-D models. Awarded several patents for new tire designs and unique mold processes.

EDUCATION

Doctor of Philosophy, Curriculum & Instruction - August, 2005

Emphasis on Mathematics Education

KENT STATE UNIVERSITY

GPA: 3.93/4.00

Masters of Arts (Secondary Education) - December, 1994

Area of Certification: Mathematics

THE UNIVERSITY OF AKRON

GPA: 4.00/4.00

Bachelor of Science in Mechanical Engineering - May, 1987

THE UNIVERSITY OF AKRON

GPA: 3.63/4.00; Magna cum laude.

Classes of Significance:

- * Doctoral Seminars in Mathematics Education
- * Qualitative Research Methods
- * Advanced Quantitative Research Methods
- * Theory & Research in Curriculum
- * Theory & Research in Teaching
- * Fundamentals of Curriculum
- * Secondary School Curriculum & Instruction
- * Fundamentals of Advanced Mathematics
- * Probability
- * Abstract Algebra
- * History of Mathematics
- * Engineering Analysis
- * Philosophies of Education
- * Behavioral Bases in Education
- * Advanced Microcomputer Applications
- * Seminar: Hyper Card
- * Reading Programs in Secondary Schools
- * Supervision in Instruction
- * Measurement & Evaluation
- * Cognitive Function Models
- * Calculus I, II, & III
- * Differential Equations
- * Applied Statistics
- * Linear Algebra
- * Fundamentals of Geometry
- * Theory of Numbers
- * Fortran

PUBLICATIONS

- * Christie, G. S. "Three Threats to the Success of the Common Core State Standards for Mathematics in the American Classroom" in Journal of Education and Social Policy, March, 2016.
- * Christie, G. S. "A Conceptual Approach to Building the Rectangular Area and Rectangular Prism Volume Equations in a Fourth Grade Classroom" in International Journal of Education and Social Science, March, 2016.
- * Christie, G. S. "Helping Children Understand Measurement Using a Ruler" in Ohio Journal of School Mathematics, Spring, 2012.
- * Christie, G. S. "Learning the Epsilon-Delta Concept Through a Competitive Task" in Ohio Journal of School Mathematics, Spring, 2006.
- * Christie, G. S. "Empowering Students Mathematically Requires Mathematically-Empowered Teachers" in Ohio Journal of School Mathematics, Spring, 2003.
- * Christie, G. S. "Constructivism: A Philosophical or Educational Position...or Both?" in American Educational Research Association: Graduate Student Council Newsletter, Spring, 2001.

PROFESSIONAL ASSOCIATIONS

- * National Council of Teachers of Mathematics
- * Ohio Council of Teachers of Mathematics
- * Association of North America Higher Education International

PROFESSIONAL CONFERENCE PRESENTATIONS

- * Led a roundtable discussion titled, "A Discussion for Instructing the Math Methods Course", May, 2017.
- * "Connecting Hands-On with Symbols" presented at the Ohio Council of Teachers of Mathematics, Sandusky, October, 2016.
- * "What is Education? A Response to Philip Jackson's Text" presented at the Critical Questions in Education Conference, Baltimore, MD, November, 2015.
- * "Challenges for Successful Implementation of the Common Core for Mathematics" presented at the International Academic Research Conference, Charleston, SC, October, 2015.
- * "Teaching Basic Operations of Whole Numbers and Decimals Using Base Ten Blocks" presented at the National Council of Teachers of Mathematics Regional Conference, Atlantic City, NJ, October, 2011.

- * "Using Base Ten Blocks to Teach Operations" presented at the Research Council of Mathematics Learning National Conference, Cincinnati, OH, March, 2011.
- * "Dividing Fractions: Understanding and Teaching" presented at The Ohio Council of Teachers of Mathematics Toledo Conference, October 13, 2006.
- * "Multiplying Fractions: Understanding and Teaching" presented at The Ohio Council of Teachers of Mathematics Toledo Conference, October 13, 2006.
- * "A Meaningful Approach to Helping Students Construct the Multiplication Algorithm" presented at The Ohio Council of Teachers of Mathematics Dayton Conference, October 6, 2005.
- * "A Meaningful Approach to Helping Students Construct the Division Algorithm for Fractions" presented at The Ohio Council of Teachers of Mathematics Dayton Conference, October 6, 2005.

PROFESSIONAL CONFERENCES

- Global Conference on Education and Research, May, 2017
- Ohio Council of Teachers of Mathematics Annual Conference, Sandusky, October, 2016
- Critical Questions in Education Conference, Baltimore, MD, November, 2015
- International Academic Research Conference, Charleston, SC, October, 2015
- Brain & the Brain: The Science of Smarter Minds, New York, NY, May, 2014
- National Council of Teachers of Mathematics Regional Conference, Atlantic City, NJ, October, 2011
- Research Council on Mathematics Learning, Cincinnati, March, 2011
- Ohio Council of Teachers of Mathematics Annual Conference, Akron, October, 2010
- National Council of Teachers of Mathematics National Conference, Washington, DC, April, 2009
- Ohio Council of Teachers of Mathematics Annual Conference, Cleveland, October, 2008
- Ohio Council of Teachers of Mathematics Annual Conference, Toledo, October, 2006
- Ohio Council of Teachers of Mathematics Annual Conference, Dayton, October, 2005
- National Council of Teachers of Mathematics Regional Conference, Pittsburgh, October, 1999