

**Dr. Janie M. Cates-Stroud**  
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**Current Position**      Assistant Professor, Temporary One-Year Appointment  
University of West Georgia  
Carrollton, GA

**Educational Background**

Ph.D.	Florida State University	1998	Mathematics Education
M.S.	Florida State University	1995	Mathematics Education
B.S.	Florida State University	1992	Mathematics Education

**Professional Experience**

2009      Assistant Professor of Mathematics Education, Department of Curriculum and Instruction, State University of West Georgia, Carrollton, GA. Responsibilities include: Teaching undergraduate and graduate mathematics and mathematics education for all levels – elementary, middle grades, and secondary, supervise students in their field placements at area schools.

2003-2009      Mathematics Coordinator, Douglas County School System, Douglasville, GA. Responsibilities include: Supervise/coordinate K-12 mathematics curriculum, conduct professional development training for inservice teachers, and work with K-12 schools to improve instruction and learning.

2002, Fall      Teacher, Yeager Middle School, Douglasville, GA. Responsibilities included: Teaching 8<sup>th</sup> grade math and Algebra I.

2002-2009      Adjunct Profession, Department of Curriculum and Instruction, University of West Georgia, Carrollton, GA. Responsibilities include: Teaching undergraduate and graduate mathematics and mathematics education courses for all levels – elementary, middle grades, and secondary.

1998-2002      Assistant Professor of Mathematics Education, Department of Curriculum and Instruction, State University of West Georgia, Carrollton, GA. Responsibilities include: Teaching undergraduate and graduate mathematics education for all levels – elementary, middle grades,

and secondary, supervise students in their field placements at area schools, coordinator of secondary education programs, advisor for graduate students in secondary mathematics education programs.

- 1998-1998 Mathematics Instructor, Summer Adjunct, North Florida Community College, Madison, FL. Responsibilities included: Teaching an intermediate college algebra course and an introductory statistics course.
- 1997-1998 Graduate Assistant, Department of Curriculum and Instruction, Department of Elementary Education, Florida State University, Tallahassee, FL. Responsibilities included: Conducting research with Dr. Robert Clark, assisting in teaching elementary mathematics methods course, and teaching mathematics methods courses for middle grades and elementary education majors.
- 1994-1997 Teacher, Griffin Middle School, Tallahassee, FL. Responsibilities included: Teaching 7<sup>th</sup> grade math, 1 year of 7<sup>th</sup> grade life science, team leader, MathCounts sponsor, and Mu Alpha Theta co-sponsor.
- 1993-1994 Teacher, Aucilla Christian Academy, Monticello, F. Responsibilities included: Teaching 6<sup>th</sup> grade mathematics, high school pre-algebra, 6<sup>th</sup> – 12<sup>th</sup> grade computer programming and applications, 7<sup>th</sup> grade life science, and Brain Bowl sponsor for the middle school team.

### **Selected Professional Association Memberships**

Georgia Council of Supervisors of Mathematics (GCSM) – held office as Vice President  
Georgia Council of Teachers of Mathematics (GCTM)  
National Council for Teachers of Mathematics (NCTM)  
National Council of Supervisors of Mathematics (NCSM)

### **Selected Professional Assignments and Activities**

- October 2009 – Rock Eagle, GA – Presentation at GCTM Annual Conference – “Multiplying and Dividing Fractions – What Does it Mean?”
- October 2009 – Rock Eagle, GA – Presentation at GCTM Annual Conference – “What Does Algebra Look Like in K-2?”
- October 2009 – Oxford, MS – Presentation at MCTM Annual Conference – “Fractions, Decimals, and Percents, Oh My!”

October 2005 – Rock Eagle, GA – Presentation at GCTM Annual Conference – “Number Sense in Grades PreK-5”

October 2005 – Birmingham, AL – Presentation at NCTM Regional Conference – “Fractions and Decimals in Grades 3-5”

April 2004 – Philadelphia, PA – Presentation at NCTM Annual Conference – “Activities, Puzzles, and Games to Enhance Number Sense in Grades PreK-2

October 2003 – Rock Eagle, GA – Presentation at GCTM Annual Conference – “Using Patterns to Explore Slope and Y-Intercept”

October 2002 – Rock Eagle, GA – Presentation at GCTM Annual Conference – “Cereal Math” and “Fractions, Decimals, and Percents, Oh My! Oh My!”

April 2002 – Las Vegas, NV – Presentation at NCTM Annual Conference – “No X’s and Y’s? Is This Really Algebra?”

2002 – Book Reviewer for *Elementary and Middle School Mathematics: Teaching Developmentally*, by John Van de Walle.

October 2002 - Rock Eagle, GA – Presentation at the GCTM Annual Conference – “Fractions, Decimals, and Percents, Oh My! Oh My!”

January 2002 – Eisenhower Proposal Reviews – UGA

Fall 2001 – Worked with local elementary school teacher – Mrs. Moon/Central Elementary School – to enhance her 4<sup>th</sup> grade students problem solving skills

October 19, 2001 – Rock Eagle, GA – Presentation at the GCTM Annual Conference – “Fractions, Decimals, and Percents, Oh My!”

October 18, 2001 – Rock Eagle, GA – Presentation at the GCTM Annual Conference – “Cereal Math” – with Dr. Jill Mizell

October 3, 2001 – Guest Lecture – Dr. Gwynn Bolton’s Special Education Practicum – “Teaching Algebra to Students with Special Needs”

May 22-24, 2001 – Worked with local middle school teacher – Mrs. Buchanan/Jonesville Middle School – to introduce her 8<sup>th</sup> grade algebra students to the graphing calculator and Calculator Based Ranger (CBR)

April 6, 2001 – Orlando, FL – Presentation at NCTM Annual Conference – “Make and Take: Activities to Enrich the Mathematics Classroom” – with Cathy Massett

Spring 2001 to present – Coordinator of Secondary Programs and NCATE/PSC accreditation for

the Department of Curriculum and Instruction at the State University of West Georgia

Spring 2001 – Worked with local elementary teacher – Mrs. Ferguson/Central Elementary School – to teach decimals with manipulatives to her 4<sup>th</sup> grade class

February 9, 2001 – Savannah, GA, - Presentation at Georgia Middle School Association Annual Conference – Algebra for Middle School Students: Learning without Fear

January 23-24, 2001 – Eisenhower Grant Proposal Reviews, UGA

Fall 2000/Spring 2001/Fall 2001 – Member of the Program Committee for the Georgia Mathematics Conference

October 5, 2000 – Myrtle Beach, SC – Presentation at SCCTM Annual Conference – “ Games, Activities, and Puzzles to Promote Problem Solving and Critical Thinking Skills

April 14, 2000 – Chicago, IL – Presentation at NCTM Annual Conference - “Make and Take: Activities, Games, and Puzzles to Enrich Learning in the Mathematics Classroom”

February 2000 – Worked with local elementary teacher – Mrs. Ferguson/Central Elementary School – to teach fractions with manipulatives to her 5<sup>th</sup> grade class

Fall 1999 through Spring 2000 – Professional Standards Commission Title II Mathematics Fellowship Writing Team

November 2, 1999 – Atlanta, GA – Strengthening Your Math Students’ Achievement, Motivation, and Involvement (Grades 7-12)

April, 1999 – Atlanta, GA – “Train the Trainers” Workshop for GLOBE™

Spring 1999 Regional Science Olympiad – “Write It and Do It” – Co-coordinator with Dr. Frank Orr

February, 1999 – Charlotte, NC – Presentation at NCTM Regional Conference - “HIV, Pasta, and Geo-Whiz” with Dr. Frank Orr

Spring 1999 - Academic Fair Judge for Carrollton Junior High School

Spring 1999 - Guest Lecture on Secondary Mathematics Methods, DeKalb Project

### **Publications**

Barlow, A. and Cates, J. (2007). The answer is 20 cookies. What is the question? *Teaching Children Mathematics* (13), 5. Reston, VA: National Council of Teachers of Mathematics.

- Barlow, A. T., & Cates, J. M. (2006). The impact of problem posing on elementary teachers' beliefs about mathematics and mathematics teaching. *School Science and Mathematics*, 106(2), 64–73.
- Boothe, D. and Cates, J. (Spring, 2002). Bridging the Language Gap with Mathematics: Go Figure! *Becoming*, A publication of the Georgia Middle School Association.
- Cates, J. (Fall/Winter 2000). Actively involving parents: Assignments from the mathematics classroom. *TESOL in Action* (14), 1.
- Cates, J. (2003). Making algebra accessible to all. *Education Issues* (12), 1 & 2. Spartanburg, SC: USC, Spartanburg, College of Education.
- Cates, J. (2002). Understanding algebra through graphing calculators. *Learning & Leading with Technology* (30), 2. Oregon: International Society for Technology in Education.
- Cates, J. (2003). Understanding algebra through graphing calculators. In Baugh, I. and Raymond, A. (Eds.) *Making Math Success Happen: The Best of Learning & Leading with Technology on Mathematics*. Oregon: International Society for Technology in Education.
- Mizell, J. & Cates, J. (2004). E=MC2: Efficient teaching = Using manipulatives to teach content concepts. *Dimensions in Mathematics* (24), 1. Florida: Florida Council of Teachers of Mathematics.
- Mizell, J. & Cates, J. (2004). The impact of additional content courses on teacher candidates' beliefs regarding mathematics content and pedagogy. *IUMPST: The Journal* (4). [www.k-12prep.math.ttu.edu]

## **Books**

- Cates, J and Reddish, J. (2009). *Stack-n-Pack Algebra – Connecting Mathematical Representations*. Timnath, CO: Learning Advantage.
- Cates, J and Reddish, J. (2009). *Stack-n-Pack Geometry – Connecting Mathematical Representations*. Timnath, CO: Learning Advantage.
- Cates, J and Reddish, J. (2006). *Stack-n-Pack Grades K-2 – Connecting Mathematical Representations*. Timnath, CO: Learning Advantage.
- Cates, J and Reddish, J. (2006). *Stack-n-Pack Grades 3-5 – Connecting Mathematical Representations*. Timnath, CO: Learning Advantage.

Cates, J and Reddish, J. (2006). *Stack-n-Pack Grades 6-8 – Connecting Mathematical Representations*. Timnath, CO: Learning Advantage.

### **Grants**

Eisenhower Grant (awarded March 2000) – “Enhancing Problem Solving Skills in Algebraic Instruction Through the Integration of Instructional Technology and Experiential Learning,” \$20,500

Eisenhower Grant (awarded March 1999) – “Utilizing Calculators and Calculator Based Laboratory (CBL) Systems for Integrating Mathematics and Science Instruction in Troup County School System,” \$18,611 (with Dr. Frank Orr)

### **Technology Training**

Fall 2001 – Spotlight on Algebra Facilitator Training

Fall 2000 – Beginning SPSS, Advanced SPSS

Spring 2000 – Technology Training – INTECH Training

Fall 1999 – WebCT Facilitator Training

### **Technology Utilized in Teaching**

Calculators

Graphing Calculators

Calculator-Based Ranger (CBR)

Calculator-Based Laboratory (CBL)

Geometer’s Sketchpad

Spotlight on Algebra (with Blackboard)

PowerPoint

Excel

Listservs

Internet