

Brenda D. Burns-Williams

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EDUCATION:

Bachelor of Science December, 1988 North Carolina State University, Raleigh, NC
Double Major: Mathematics Education / Mathematics

Master of Education May, 1994 North Carolina State University, Raleigh, NC
Major: Mathematics Education

Doctor of Philosophy May, 2002 North Carolina State University, Raleigh, NC
Major: Mathematics
Thesis advisor: Prof. Mohan Putchu
Thesis topic: *The Staircase Decomposition for Reductive Monoids.*

PROFESSIONAL EXPERIENCE:

Visiting Instructor: Aug. 2000 –Present
Department of Mathematics
North Carolina State University, Raleigh, NC

- Course Coordinator for MA111, a pre-calculus course.
- Taught both small (15-30 students) and large (200 students) lecture sections of Pre-calculus, Calculus and Finite Math. Supervised teaching assistants assigned to help with the courses.

Graduate Teaching Assistant: Aug. 1995 – July 2000
Department of Mathematics
North Carolina State University, Raleigh, NC

- Designed lesson plans, facilitated class discussions, and evaluated student progress.
- Courses taught include Pre-calculus, Calculus, and Finite Mathematics

Assistant Director for TA Training: Aug. 1998 – Aug. 1999
Department of Mathematics
North Carolina State University, Raleigh, NC

- Conducted workshop to train new graduate student teaching assistants.
- Evaluated teaching performance of new teaching assistants.

Mathematics Curriculum Designer: July 1999

SASinSchool Division
SAS Institute, Cary, NC

- Created lesson plans and materials that utilized multimedia and digital resources in order to enhance the teaching of mathematics on a secondary school level.
- Tested and evaluated software.

Graduate Teaching Assistant: Aug. 1992 – July 1995

Department of Mathematics, Science, and Technology Education
North Carolina State University, Raleigh, NC

- Taught Intermediate Algebra, a course for students who need a review of high school algebra before taking college level mathematics courses.
- Held office hours and review sessions for students.

Mathematics Teacher: Aug. 1989 – July 1992

Department of Mathematics
Clinton High School, Clinton, NC

- Created innovative games and materials to supplement regular course work.
- Taught Algebra 1, Algebra 1 Honors, Algebra 1A, Algebra 1B, Geometry, Probability and Statistics, and Applied Mathematics

CONFERENCES AND PRESENTATIONS:

- Algebra Seminar, North Carolina State University, Raleigh, NC. *The Staircase Decomposition for Reductive Monoids*. March, 2001.
- Joint Mathematics Meeting 1997, San Diego, California. Co-presenter of Mini Lesson *Teacher Training for Graduate Teaching Assistants*. January, 1997.

PROFESSIONAL SOCIETIES:

American Mathematical Society