

Sarah Barreto

Contact Information:

McBryde Hall 406
Department of Mathematics
Virginia Tech University
Blacksburg, VA 24060

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Education

North Carolina State University, Raleigh, NC

Ph.D. Mathematics, May 2015

- Dissertation: Conjugacy classes of maximal k -split tori invariant under an involution of $SL(n,k)$
- Advisor: Dr. A. G. Helminck

Western Carolina University, Cullowhee, NC

M.S. Applied Mathematics, May 2010

Western Carolina University, Cullowhee, NC

B.S. Traditional Mathematics, May 2008

Professional Experience

Virginia Tech University, Blacksburg, VA

Instructor, Department of Mathematics, 2015-present

- Courses taught:
 - Math 1225 (Calculus I)
 - Math 1226 (Calculus II)
 - Math 2114 (Introduction to Linear Algebra)
 - Math 2204 (Multivariable Calculus)
 - Math 2984 (Sequences and Series)
- Academic advisor to undergraduate math majors in the ADM option. Approximately 12 advisees per semester.
- Course Coordinator for Math 2204, 2020-present
- Content creator for Math 2204 (videos, notes, and creating Canvas modules)

North Carolina State University, Raleigh, NC

GTA, Department of Mathematics, 2011-2015

- Courses taught:
 - MA 121 (Elements of Calculus)
 - MA 114 (Introduction to Finite Mathematics with Applications)
 - MA 111 (Precalculus, Algebra, and Trigonometry)

- Recitation leader for the following courses:
 - MA 241 (Calculus II)
 - MA 231 (Calculus for Life and Management Sciences B)
 - MA 141 (Calculus I)
 - MA 341 (Applied Differential Equations)
 - MA 107 (Precalculus I)
- Tutor in the Mathematics Department Multimedia Center
 - Responsibilities: Provide help for undergraduate students in all lower-level mathematics courses; give guided assistance on students' assignments, tests, reviews, and online WebAssign and/or MyMathLab homework.

Western Carolina University, Cullowhee, NC

GTA, Department of Mathematics, 2008-2010

- Courses taught:
 - MA 130 (College Algebra)
- Tutor in the Mathematics Department Tutoring Lab
 - Responsibilities: Provide help for undergraduate students in all lower-level mathematics courses; give guided assistance on students' assignments, tests, reviews, and homework

Whizard Academy, Cary, NC

Mathematics Tutor, 2012-2013

- Responsibilities: Tutoring middle school and high school students, SAT preparation, creating lessons and homework for the students.