

# Patrick T. Newberry

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University of Colorado Boulder  
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## Education

<i>Ph.D.</i> , Mathematics, University of Colorado, Boulder, CO <i>Explicit Computation of the Cohomology of a Symbol Algebra</i> Advisor: Alexander Gorokhovsky	August 2012
<i>M.A.</i> , Mathematics, University of Colorado, Boulder, CO	May 2008
<i>B.S.</i> , Mathematics, Northern Arizona University, Flagstaff, AZ	May 2005

## Teaching Experience

Assistant Teaching Professor University of Colorado Department of Mathematics	August 2024 - Present Boulder, CO
Assistant Teaching Professor	August 2021 - August 2024
Instructor	August 2019 - August 2021
Lecturer University of Colorado Environment and Natural Sciences Residential Academic Program	August 2014 - August 2019 Boulder, CO
Instructor University of Colorado Department of Mathematics	August 2012 - May 2014 Boulder, CO

### – Courses Developed

- MATH 2510 - Introduction to Statistics
  - Elaborate Statistics Package for Excel
  - Lecture and Calculator Instructional Videos
  - Course-wide Homework and Canvas Exam Question Banks
  - Developed In-Person and Online Modalities
- MATH 1011 - College Algebra
- MATH 1012 - Quantitative Reasoning
- MATH 1021 - Numerical and Analytical College Trigonometry
- MATH 1150 - Precalculus
- MATH 2001 - Discrete Mathematics
- MATH 3130 - Linear Algebra
- MATH 4430 - Differential Equations

### – Courses Taught

- MATH 1071 - Finite Math for Social Science and Business

- MATH 1081 - Calculus for Social Science and Business
- MATH 1112 - Mathematical Analysis in Business
- MATH 1300 - Calculus I
- MATH 2300 - Calculus II
- MATH 2400 - Calculus III

## Supervising Experience

- Managed Graduate-Student-staffed tutoring center
- Oversaw Graduate Teaching Assistants in their duties of leading recitations and grading for MATH 1150
- Coordinated Undergraduate Course Assistants for MATH 1112 and MATH 2510

## Skills

- Fluent in  $\text{\LaTeX}$ , Excel, R, and Python.
- Familiarity with C++, Java, Lean, and Pearl.

## Service

Facilitated and Contributed to community building activities in Baker RAP Fall 2014 - May 2024

Served on PUEC reappointment committee Spring 2023

Graduate Committee (Graduate Student Representative) Fall 2009 - Spring 2010

- Coordinated elections and other administrative duties relating to graduate students.
- Helped plan future graduation requirements for the mathematics graduate programs.

PRP Committee (Graduate Student Representative) Fall 2009 - Spring 2010  
(Committee assisting a periodical outside review of the department)

- Facilitated communication between Graduate and PRP Committees
- Gathered graduate students' opinions for PRP report

## Outreach

Invited Speaker and MathCounts assistant coach at Hulstrom K-8 Fall 2016 - Present

## Honors and Awards

ENS RAP Outstanding Faculty Staff Recognition Award 2018

Burton Jones Teaching Award 2010

Stribic Fellowship Summer 2009, Summer 2010, Spring 2011