

# Patrick T. Newberry

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University of Colorado Boulder  
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Boulder, CO 80309  
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## Education

*Ph.D.*, Mathematics, University of Colorado, Boulder, CO August 2012  
*Explicit Computation of the Cohomology of a Symbol Algebra*  
Advisor: Alexander Gorokhovsky

*M.A.*, Mathematics, University of Colorado, Boulder, CO May 2008

*B.S.*, Mathematics, Northern Arizona University, Flagstaff, AZ May 2005

## Teaching Experience

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

– 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

– 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 1150 - Precalculus Mathematics
- MATH 1300 - Calculus I
- MATH 2300 - Calculus II
- MATH 2510 - Introduction to Statistics

Instructor August 2012 - May 2014  
University of Colorado Boulder, CO  
Department of Mathematics

– Courses Developed

- MATH 1012 - Quantitative Reasoning (Fall 2013)
- MATH 1021 - Numerical and Analytical College Trigonometry (Spring 2013)

- MATH 1150 - Precalculus Mathematics (Fall 2012, Spring 2013, Fall 2013)
- MATH 2001 - Discrete Mathematics (Summer 2017)
- MATH 3130 - Linear Algebra (Summer 2013, Summer 2016)
- MATH 4430 - Differential Equations (Summer 2013, Summer 2022, Summer 2023)

– Courses Taught

- MATH 1071 - Finite Math for Social Science and Business (Fall 2012)
- MATH 1300 - Calculus I (Spring 2013, Spring 2014)
- MATH 2300 - Calculus II (Spring 2014)
- MATH 2510 - Introduction to Statistics (Spring 2014, Summer 2014)

Graduate Teaching Assistant  
University of Colorado  
Department of Mathematics

January 2006 - August 2012  
Boulder, CO

– Courses Developed

- MATH 1081 - Calculus for Social Science and Business (Summer 2007)
- MATH 2400 - Calculus III (Summer 2008, Summer 2012)
- MATH 1011 - College Algebra (Summer 2011)

– Courses Taught

- MATH 1300 - Calculus I (Fall 2006, Spring 2007, Fall 2009, Fall 2011)
- MATH 2300 - Calculus II (Spring 2008, Fall 2008, Spring 2010)
- MATH 2400 - Calculus III (Fall 2010, Spring 2012)

## 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 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 - Present

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