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## EDUCATION

- Ph.D. Mathematics**, University of California, Santa Barbara Spring 2008  
 • Research Area: Knot Theory  
 • Advisor: Stephen Bigelow
- M.A. Mathematics**, University of California, Santa Barbara Spring 2005  
**M.S. Mathematics**, California Polytechnic State University, San Luis Obispo Spring 2002  
**B.S. Mathematics** (*Magna Cum Laude*), California Polytechnic State University, San Luis Obispo Spring 2000

## TEACHING EXPERIENCE

- Assistant Professor**, Emporia State University Fall 2008 - Present
- Teaching Associate (Lecturer)**, University of California, Santa Barbara Fall 2002 - Spring 2008  
*Lectured, prepared course materials, assigned course grades, directed graders and graduate teaching assistants.*  
 • Calculus for the Life and Social Sciences II  
 • Calculus with Application III (*differential equations & linear algebra*)  
 • A Transition to Higher Mathematics (*methods of proof*)
- Teaching Assistant**, University of California, Santa Barbara Fall 2002 - Spring 2008  
*Led discussion sections, graded homework and/or graded exams.*  
 • Precalculus  
 • Calculus for the Life and Social Sciences I and II  
 • Calculus with Applications I and II  
 • Differential Equations and Linear Algebra I  
 • Vector Calculus with Applications  
 • Transition to Higher Mathematics  
 • Graph Theory  
 • Methods of Analysis
- Lecturer**, California Polytechnic State University, San Luis Obispo Fall 2000- Spring 2002  
*Lectured, prepared course materials, assigned course grades, directed graders.*  
 • Intermediate Algebra (computer-assisted course)  
 • Pre-Calculus Algebra I, II  
 • Calculus I and III

## HONORS AND AWARDS

- **Outstanding Teaching Assistant Award**, UCSB Mathematics Department 2007
- **Hanks Excellence in Mathematics Award**, California Polytechnic State University, San Luis Obispo 2002
- **Bryant Russell Memorial Award**, California Polytechnic State University, San Luis Obispo 2000

**RESEARCH**

**Areas of interest:** Knot Theory and Braid Theory

PhD Thesis: Negatory Crossings in Closed 3-Braid Diagrams

**Presentations:**

- *Crossing changes in closed 3-braid diagrams* October 2007  
Topology Seminar, University of California, Santa Barbara
- *A path representation of the  $A_2$  spider* August 2006  
Advancement to Candidacy Presentation, University of California, Santa Barbara
- Multiple presentations, Graduate Student Topology Seminar, UCSB 2003-present

**MEMBERSHIPS AND SERVICE**

- Lead Teaching Assistant, Department of Mathematics Graduate Teaching Training Program, UCSB 2006
- Member, American Mathematical Society