

Lucas A. Bennett

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Education

Ph.D., Mathematics, The University of Iowa, Expected May 2008

- Advisor: Richard Randell
- Thesis Title: Edge Index and Arc Index of Knots and Links

M.S., Mathematics, The University of Iowa, May 2004

B.A., Mathematics, Cum Laude, Central College (IA), May 2002

Teaching Experience

Teaching Assistant, The University of Iowa, Fall 2002-present

Instructor

- Basic Algebra II, Trigonometry, Elementary Functions
- Complete responsibility for: three or four lectures per week; setting and grading homework, quizzes, and exams; assigning final grades

Discussion Leader

- Introduction to Abstract Algebra I, Calculus I, Calculus II, Logic of Arithmetic (mathematics course for pre-service elementary teachers), Calculus for the Biological Sciences, Finite Mathematics, Mathematics for Business
- Responsibilities included leading discussion and homework sessions, writing and grading quizzes, grading homework

Math Lab Tutor

- One-on-one tutoring for students enrolled in math courses at The University of Iowa, ranging from basic algebra to vector calculus

Substitute Lecturer, The University of Iowa, Fall 2006

- Filled in for a professor to lecture a Business Calculus class with approximately 250 students for 3 weeks.

Adjunct Professor, Central College (IA), Spring 2004, Fall 2005

- Introduction to Finite Math, College Algebra
- Complete responsibility for lectures, assignments, quizzes, exams, and assigning final grades.

Honors and Awards

Graduate College Summer Fellowship, The University of Iowa, Summer 2007

University of Iowa Outstanding Teaching Assistant Award, 2007

- 25 University-wide awards given annually

Catharine Wegner Outstanding Mathematics Teaching Assistant Award, 2003

Research

Interests

Low Dimensional Topology, Piecewise Linear Knot Theory

Presentations

- *Edge Index and Arc Index of Links*, Topology Seminar, The University of Iowa, Fall 2007
- *Edge Index of Knots*, Central College, Pella, IA, Fall 2007
- *Piecewise Linear Knots*, Coe College, Cedar Rapids, IA, Spring 2007
- *Arc Index and Edge Index of Knots*, Graduate Student Topology Conference, University of Chicago, Spring 2007
- *Enumeration of Knots*, Undergraduate Research Seminar, The University of Iowa, Spring 2007
- *Conway Notation and Arc Presentation*, VIGRE Student Topology Seminar, The University of Iowa, Spring 2007
- *Arc Presentation of Knots*, Topology Seminar, The University of Iowa, Fall 2006
- *Torus Knots*, VIGRE Student Topology Seminar, The University of Iowa, Fall 2006

Conferences Attended

Graduate Student Topology Conference, University of Chicago, April 2007

Joint Mathematics Meetings, New Orleans, Louisiana, January 2007

Graduate Student Topology Conference, University of Indiana, April 2006

Departmental Seminars Attended

Topology, VIGRE Student Topology, GAUSS (Graduate & Undergraduate Student Seminar)

Service

Sonia Kovalevsky Day Helper, 2007

Vice-Chair, Mathematics Graduate Student Board, Fall 2005

Served on founding committee, Mathematics Graduate Student Board, Fall 2004, Spring 2005

Graduate student representative at Heartland Mathematics Partnership meeting, 2004

Professional Memberships

American Mathematical Society

Mathematical Association of America