

MARTIN W. MONTGOMERY

Department of Mathematics
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POSITIONS

<i>Visiting Assistant Professor of Mathematics</i> Bates College	Aug. 2014-present
<i>Faculty Lecturer of Mathematics</i> University of Kentucky	Aug. 2012-June 2014
<i>Visiting Assistant Professor of Mathematics</i> Sam Houston State University	Aug. 2010-May 2012
<i>Visiting Adjunct</i> Transylvania University	Jan. 2010-May 2010
<i>Assistant Professor of Mathematics</i> Piedmont College	2006-2009
<i>Graduate Teaching Fellow</i> University of Oregon	1999-2006

EDUCATION

Ph.D. <i>University of Oregon</i> , Dept. of Mathematics, Eugene, OR Dissertation "Dimension of Certain Cleft Binomial Rings" Adviser: Frank W. Anderson	2006
M.S. <i>University of Oregon</i> , Dept. of Mathematics, Eugene, OR	2001
B.A. <i>Humboldt State University</i> , Arcata, CA Magna Cum Laude	1999

TEACHING EXPERIENCE

Bates College

<i>Calculus II</i> , Instructor	Fall 2014
<i>Multivariable Calculus</i> , Instructor	Fall 2014

University of Kentucky

<i>Contemporary Mathematics</i> , Instructor/Course Coordinator	Eight Sections
<i>Business Calculus</i> , Instructor	Fall 2012
<i>Matrix Algebra</i> , Instructor	Spring 2013
<i>Number Theory</i> , Instructor	Spring 2014

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Sam Houston State University

<i>Differential Equations</i> , Instructor	Fall 2011
<i>Calculus I</i> , Instructor	Spring 2012
<i>Calculus II</i> , Instructor	Fall 2011
<i>Abstract Algebra</i> , Instructor	Spring 2011
<i>Operations Research</i> , Instructor	Fall 2010
<i>College Mathematics</i> , Instructor	Five Sections

Transylvania University

<i>Elementary Statistics</i> , Instructor	Two Sections
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Piedmont College

<i>Abstract Algebra</i> , Instructor	Two Sections
<i>Advanced Probability and Statistics</i> , Instructor	Two Sections
<i>Calculus I (Differential)</i> , Instructor	Two Sections
<i>Calculus II (Integral)</i> , Instructor	Three Sections
<i>Calculus III (Multivariable)</i> , Instructor	Six Sections
<i>College Geometry</i> , Instructor	Two Sections
<i>Differential Equations</i> , Instructor	One Section
<i>Elementary Statistics</i> , Instructor	Two Sections
<i>Mathematical Modeling</i> , Instructor	One Section
<i>Number Theory</i> , Instructor	One Section
<i>Real Analysis (Independent Study)</i> , Instructor	One Section

University of Oregon

<i>Business Calculus II</i> , Teaching Assistant	One Section
<i>Calculus I</i> , Instructor	Four Sections
<i>Calculus II</i> , Instructor	Three Sections
<i>Calculus III</i> , Instructor	Four Sections
<i>College Algebra</i> , Instructor	Seven Sections
<i>Differential Equations</i> , Instructor	One Section
<i>Trigonometry</i> , Instructor	Five Sections
<i>University Mathematics</i> , Instructor	One Section

As Course Coordinator: Trained, managed, and mentored section instructors; wrote course content, online homework questions, and exam templates; acted as liaison between mathematics department and other university bodies.

As Instructor: Complete responsibility for the course. As Teaching Assistant: Led four tutorial/review sessions per week, held office hours, graded quizzes and exams.

RESEARCH INTERESTS

Noncommutative, Associative Rings and Algebras; Leavitt Path Algebras

JOURNAL ARTICLES

Square-Free Rings and their Automorphism Groups, *Comm. Algebra* **38** (10) 2010 3767-3789.

Non-Stable K-Theory For Leavitt Path Algebras (with D. Hay, M. Loving, E. Ruiz, and K. Todd), *To Appear in the Rocky Mountain Journal of Mathematics*.

Square-Free Rings With Local Units, *Preprint*.

ACADEMIC SERVICE (EXTERNAL)

Editor for Special Issue on Writing and Editing, May, June 2014
Reviewed and edited Volume 24, Issues 6 & 7 for *PRIMUS*,
a magazine devoted to undergraduate mathematics education.

MathFest 2012 Contributed Papers Session Organizer, August 2012
(with Ryan Stufflebeam of Transylvania University)
Incorporating Writing and Editing into Mathematics Classes.

MathFest 2011 Contributed Papers Session Organizer, August 2011
(with Ryan Stufflebeam of Transylvania University)
Novel Ways to Incorporate Writing into Mathematics Classes.

ACADEMIC SERVICE (INTERNAL)

<i>Lecturer Hiring Committee,</i> Assisted in the hiring process for several Lecturer positions.	Fall 2013–Spring 2014
<i>Salary Committee for the Mathematics Department,</i> Reviewed Lecturer performance and made salary recommendations.	Fall 2013
<i>Officer on Disciplinary Hearing Panels,</i> Trained to serve on UK Disciplinary Hearing Panels.	Fall 2013–Spring 2014
<i>Faculty Meetings Scribe,</i> Took minutes during Department Faculty Meetings.	Fall 2013–Spring 2014
<i>Visiting Lecturer Hiring Committee,</i> Assisted in the hiring process for three Visiting Lecturers.	Spring 2013
<i>Critical Thinking Faculty Development Subcommittee, Budget Officer,</i> Assisted in development and implementation of critical thinking guidelines across campus at Piedmont College.	2007–2009
<i>Faculty Governance Council, Assistant Secretary,</i> Investigated and reported on issues concerning faculty at Piedmont College. Facilitated orderly discussion during full faculty meetings.	2007–2008
<i>Premier Piedmont, Faculty Representative,</i> Organized and participated in campus visits for potential students.	2007
<i>Ring Theory Seminar, Organizer,</i> Set speaker schedule for a seminar accessible to graduate students in algebra.	2003–2005
<i>Graduate Affairs Committee, Representative,</i> Oriented incoming graduate students and represented graduate students in departmental decisions.	2002–2003

RESEARCH TALKS AND PRESENTATIONS

Properties of Square-Free Rings, SHSU Algebra Seminar (3 talks), October 2011.

The Cartan Determinant Conjecture for Square-Free Rings, Sam Houston State University, April, 20 2011.

Diagram Algebras and Square-Free Rings, Sam Houston State University, February 19, 2010.

Square-Free Rings and Their Automorphism Groups, JMM, Washington, D.C., January 5, 2009.

Classification of Square-Free Rings, JMM San Diego, CA, January 9, 2008.

Algebraic Structure from Diagrams, University of Georgia Algebra Seminar, October 8, 2007.

A Naive Approach Towards Calculating Global Dimension, University of Georgia Algebra Seminar, March 5, 2007.

Projective Resolutions for Cleft Binomial Rings, JMM, San Antonio, TX., January 13, 2006.

Various Topics (Nine Talks Total), University of Oregon Ring Theory Seminar, May 2002–May 2005 .

UNDERGRADUATE TALKS AND PRESENTATIONS

The Basel Problem and Transformations, Sam Houston State University, October 29, 2010.

Diagram Algebras and Square-Free Rings, Transylvania University, March 8, 2010.

Integration Using Partial Fractions, Thomas More College, February 25, 2010.

Finding the sum $1 + 1/4 + 1/9 + 1/16 + \dots$, Georgetown College, February 5, 2010.

Infinite Sums and a Million Dollar Question, Piedmont College, September 19, 2008.

Algebras, Diagrams, Projections, and People (Oh My!), North Georgia College & State University, November 14, 2007.

Algebras, Diagrams, Projections, and People (Oh My!), Piedmont College, November 12, 2007.

The Art of Albrecht Dürer and Magic Squares, Piedmont College, October 6, 2006.

FELLOWSHIPS AND AWARDS

- Project NExT Fellow,*** 2007–2008
Project NExT (New Experiences in Teaching) is a competitive national professional development program of the Mathematical Association of America for new mathematics faculty.
- Mu Alpha Theta Contest, First Prize, Category B,*** 1999
An annual mathematics competition at Humboldt State University. Students have three hours to complete two sections of challenging problems. Category B is for more advanced students of mathematics.
- Mu Alpha Theta Contest, Second Prize, Category B,*** 1998
An annual mathematics competition at Humboldt State University. Students have three hours to complete two sections of challenging problems. Category B is for more advanced students of mathematics.
- Mu Alpha Theta Contest, Third Prize, Category A,*** 1997
An annual mathematics competition at Humboldt State University. Students have three hours to complete two sections of challenging problems. Category A is for beginning students of mathematics.
- COMAP Mathematical Modeling Competition, Honorable Mention,*** 1998
A national competition in mathematical modeling for high school and college students. School-sponsored teams of up to three students seek innovative mathematical solutions to real-world problems.

AFFILIATIONS

AMS, MAA, Project NExT