

Martin Montgomery

Contact Information

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Education

Ph.D. in Mathematics, University of Oregon, Eugene, Oregon June 2006.

Dissertation, *Dimension of Certain Cleft Binomial Rings*.

Advisor, Professor Frank W. Anderson.

M.S. in Mathematics, University of Oregon, Eugene, Oregon June 2001.

B.A. in Mathematics, Humboldt State University, Arcata, California May 1999.

Academic Positions

Assistant Professor of Mathematics, Piedmont College. August 2006 – May 2009.

Graduate Teaching Fellow, University of Oregon. September 1999 – June 2006.

CRLA Certified Tutor, Humboldt State University. August 1998 – May 1999.

Research Interests

Noncommutative Ring Theory, Rings with Local Units, Homology, Cohomology.

Teaching Experience

As Assistant Professor at Piedmont College I have taught the following courses:

Spring 2007, Spring 2008	Abstract Algebra
Fall 2006, Fall 2007	Advanced Probability and Statistics
Spring 2007, Spring 2008	Calculus I (Differential)
Fall 2007, Fall 2008, Spring 2009	Calculus II (Integral)
Fall 2006, Spring 2007, Fall 2007, Spring 2008, Fall 2008, Spring 2009	Calculus III (Multivariable)
Fall 2006, Fall 2008	College Geometry
Spring 2007	Differential Equations
Spring 2008, Summer 2008	Elementary Statistics
Spring 2008	Independent Study in Real Analysis
Spring 2009	Mathematical Modeling
Spring 2009	Number Theory

Teaching Experience (Cont.)

As a Graduate Teaching Fellow at the University of Oregon I was the sole instructor, except where noted, for the following courses:

Spring 2000	Business Calculus II (Teaching Assist.)
Fall 2002, Winter 2003, Winter 2004 Spring 2006	Calculus I
Summer 2003, Winter 2005, Spring 2005	Calculus II
Fall 2003, Spring 2004, Fall 2004	Calculus III
Fall 1999, Winter 2000, Summer 2000, Fall 2001, Spring 2002, Fall 2005	College Algebra
Summer 2004	Differential Equations
Fall 2000, Winter 2001, Spring 2001 Winter 2002, Spring 2003	Trigonometry
Summer 2002	University Math

As Tutor at Humboldt State University, I tutored for lower-division mathematics courses in the HSU Academic Tutoring Lab.

Publications

Montgomery, M.W. **Algebra Properties of Square-Free Rings With Local Units**
In preparation.

Montgomery, M.W. and Wells, M.V. **Book of Changes: An ancient Chinese Oracle as an Interdisciplinary Teaching Moment**
In preparation.

Montgomery, M.W. **Square-Free Rings and Their Automorphism Groups**
To appear in *Communications in Algebra*.

Montgomery, M.W. **Dimension of Certain Cleft Binomial Rings**
Ph.D. Dissertation 2006 (University of Oregon)

Talks and Presentations

Joint Mathematics Meetings in Washington, D.C. (10 minutes)
“Square-Free Rings and Their Automorphism Groups,” January 5, 2009.

Joint Mathematics Meetings in San Diego (10 minutes)
“Classification of Square-Free Rings,” January 9, 2008.

North Georgia State College and University (50 minutes)
“Algebra, Diagrams, Projections and People” November 14, 2007.

University of Georgia Algebra Seminar (50 minutes)
“Algebraic Structures From Diagrams,” October 8, 2007.

University of Georgia Algebra Seminar (50 minutes)
“A Naive Approach Towards Calculating Global Dimension,” March 5, 2007.

Joint Mathematics Meetings in San Antonio (10 minutes)
“Projective Dimension of Cleft Binomial Rings,” January 13, 2006.

University of Oregon Ring Theory Seminar (50 minutes)
Nine Talks Given From May 2002 to May 2005.

- Honors and Awards**
- Mu Alpha Theta Contest, First Prize, Category B (Advanced).**
Humboldt State Mathematics Competition, April 1999.
 - Mu Alpha Theta Contest, Second Prize, Category B (Advanced).**
Humboldt State Mathematics Competition, April 1998.
 - Mu Alpha Theta Contest, Third Prize, Category A (Beginning).**
Humboldt State Mathematics Competition, May 1997.
 - COMAP Mathematical Modeling Competition, Honorable Mention.** 1998.
- Academic Service**
- Critical Thinking Faculty Development Subcommittee, Piedmont College; Budget Officer.** Fall 2007–Spring 2009.
Assisted in development and implementation of critical thinking guidelines.
 - Faculty Governance Council, Piedmont College; Assist. Secretary.** Fall 2007–Fall 2008.
 - Premier Piedmont, Faculty Representative.** Spring 2007.
Helped organize and participated in a campus visit for potential incoming freshmen.
 - Organizer of the Ring Theory Seminar,** Winter 2003 – Spring 2005.
A seminar accessible to graduate students in algebra.
 - Representative, Graduate Affairs Committee,** Spring 2002 – Winter 2003.
Oriented incoming graduate students and represented graduate students in department decisions.
- Conferences**
- AMS/MAA Joint Meetings,** January 2009, Washington D.C.
 - MathFest,** August 2008, Madison, Wisconsin.
 - AMS/MAA Joint Meetings,** January 2008, San Diego, California.
 - MathFest,** August 2007, San Jose, California.
 - AMS/MAA Joint Meetings,** January 2007, New Orleans, Louisiana.
 - AMS/MAA Joint Meetings,** January 2006, San Antonio, Texas.
- Memberships**
- American Mathematical Society**
 - Mathematical Association of America**
 - Project NExT Fellow, Sun Dot (2007)**
- Other Interests**
- Math in Popular Culture**
 - Constructing Mathematically Themed Crossword Puzzles**

References

Dissertation Advisor

Frank W. Anderson, Professor
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