Molly Fenn

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EDUCATION

University of Massachusetts-Amherst, MA   (May, *2008)*
PhD in Mathematics
Advisor: Eric Sommers
Thesis Title: Generating Equivalence Classes of B-stable Ideals

University of Massachusetts-Amherst, MA   (*Winter, 2006)*
MS in Mathematics

Wellesley College-Wellesley, MA   (May, *2000*)
BA in Mathematics-magna cum laude with Honors in Mathematics

Budapest Semesters **in Mathematics**   (*Fall, 1998)*
Intensive math program participant

EXPERIENCE

UNIVERSITY TEACHING EXPERIENCE

Teaching Assistant Professor *(2008-present)*
North Carolina State University-Raleigh, NC
Courses Taught: Multivariable Calculus, Ordinary Differential Equations,
Foundations of Mathematics, Numerical Applications of Differential
Equations, Abstract Algebra for Secondary Teachers

Teaching Assistant and Instructor   (*2003-2008)*
University of Massachusetts-Amherst, MA
Courses Taught: Multivariable Calculus, Linear Algebra, Basic Math Skills
for the Modern World
Courses Assisted: Calculus I, Calculus II, Fundamental of Mathematics,
Abstract Algebra

OTHER TEACHING EXPERIENCE

Teaching Assistant and Instructor *(1998-2003 -- Summers)*
Johns Hopkins Center for Talented Youth-Baltimore, MD

Middle School Mathematics Teacher *(2000-2001)*
Milken Community Middle School-Los Angeles, CA

ADDITIONAL EXPERIENCE

Assistant Director of Admissions *(2001-2003)*
Alaska Pacific University-Anchorage, AK

WORKSHOPS/CONFERENCES ORGANIZED

- Poster Session for Undergraduates, SIAM regional conference, NCSU *(Spring 2010)*
- TA Workshop for new mathematics graduate teaching assistants, NCSU *(Spring and Fall 2009)*
- Panel on Outreach to Local Schools and Teachers, Mathfest *(Summer 2009)*
- Undergraduate Research Presentations, NCSU *(Spring and Fall 2009)*
- Special Session on Computational Methods in Lie Theory, AMS Sectional Meeting, NCSU *(Spring 2009)*

TALKS

- Faculty Panel on Research and Teaching Statements, NCSU Research Training Module *(Fall 2009)*
- "The Platonic Solids and the Four Color Theorem," NCSU Society for Undergraduate Mathematics (SUM) Series *(Fall 2009)*
- "Generating Equivalence Classes of B-stable Ideals," Special Session on Algebraic Groups and Symmetric Spaces, AMS Sectional Meeting, NCSU *(Spring 2009)*
- "The Mathematics of Voting," NCSU SUM Series *(Fall 2008)*
- "Who Uses Mathematics? Everyone!", Brentwood Elementary School Math Night *(Fall 2008)*
- "Generating Equivalence Classes of B-stable Ideals," Workshop on B-stable Ideals and Nilpotent Orbits, Istituto Nazionale di Alta Matematica, Rome Italy *(Fall 2007)*
- "The Four Color Theorem and the Platonic Solids: An Introduction to Graph Theory," Westfield State College Math Seminar *(Fall, 2007)*
- "Lie Algebras and Root Systems," UMass Math Department Graduate Seminar *(Spring 2007)*
- "Introduction to Voting Theory," UMass Undergraduate Math Club *(Spring 2007)*
- "To Infinity and Beyond," UMass Undergraduate Math Club *(Fall 2006)*
- "The Four Color Theorem and the Platonic Solids: An Introduction to Graph Theory," UMass Undergraduate Math Club *(Spring 2006)*
- "Coxeter Groups and Hecke Algebras," University of Massachusetts Representation Theory Seminar (*Fall 2005*)

WORKSHOPS/CONFERENCES ATTENDED

- Project NExT Workshops on teaching, research, and professional development *(Summer 2008, Winter 2009, Summer 2009)*
- Mathfest *(Summer 2009)*
- Legacy of R.L. Moore *(Summer 2009)*
- AMS Spring Sectional Meeting, NCSU *(Spring 2009)*
- Great Circles, MSRI *(Spring 2009)*
- Regional Undergraduate Mathematics Conference, Francis Marion University *(Spring 2009)*
- Joint Mathematics Meeting *(Winter 2009)*
- MAA Mini-course on Directing Undergraduate Research *(Winter 2009)*

- MAA Mini-course on Game Theory Paths to Quantitative Literacy *(Winter 2009)*
- Mathfest *(Summer 2008)*
- MAA PREP Course on Math and Politics *(Summer 2008)*
- Joint Mathematics Meeting *(Winter 2008)*
- Workshop on B-stable Ideals and Nilpotent Orbits, Istituto Nazionale di Alta Matematica, Rome Italy *(Fall 2007)*
- Careers at Liberal Arts Colleges, Wellelsey College *(Fall 2006)*
- SL(2,R) Mini-course, University of Utah *(Summer 2006)*

SERVICE AND OUTREACH

- Director of the Triangle Math Circle *(beginning Spring 2010)*
- Disseminated information about undergraduate research grants and conferences through math department undergraduate blog, NCSU *(Fall 2009)*
- Pack Promise Coach, NCSU *(Fall 2009)*
- Certificate of Accomplishment in Teaching mentor to graduate students, NCSU *(Fall 2008 and Fall 2009)*
- Committee to select recipients of undergraduate research grants, NCSU *(Fall 2009)*
- New Student and Parent Orientation, NCSU *(Summer 2009)*
- Mathematics Undergraduate Curriculum Committee *(2008-present)*
- Teaching Enhancement Committee *(2008-present)*
- Advised graduate students on applying for teaching jobs, NCSU *(2008-present)*
- Student Representative of the Graduate Affairs Committee, UMass Math Department *(2007)*
- Pantry Volunteer at Northampton Survival Center *(2007)*
- Collaborated with several other graduate students to organize and run Additional Calculus Experience (ACE), an optional weekly program for Calculus I students focusing on developing math skills and fostering group work *(Spring 2007)*
- Playspace Volunteer with Horizons for Homeless Children *(2006-2007)*
- Assisted at Colby College Math Meet *(Fall 2005)*

AWARDS AND HONORS

- Project NExT Fellow *(2008-2009)*
- Playspace Volunteer of the Year Award, Horizons for Homeless Children *(2008)*
- Certificate of Appreciation for Demonstrating Excellence in Teaching, UMass Continuing Education *(2004)*
- Stimson Prize in Mathematics, Wellesley College *(2000)*

PROFESSIONAL MEMBERSHIPS

- American Mathematical Society
- Association for Women in Mathematics
- Mathematical Association of America