

Elizabeth Wilcox

Department of Mathematical Sciences
Binghamton University
Binghamton, New York 13902-6000
wilcox@math.binghamton.edu

17 Murray Street #2
Binghamton, New York 13905
518-577-1147

EDUCATION

Ph.D. in Mathematics from Binghamton University, Binghamton, NY, expected May 2010. Dissertation Advisor: Ben Brewster, Title: Wreath Products and Complete Groups.

M.S. in Mathematics from the University of Vermont, Burlington, VT, May 2006. Dissertation Advisor: Richard Foote, Title: A New Approach to Suzuki's CA-Group Theorem.

Graduate courses in epidemiology and biostatistics taken at the University of Illinois at Chicago, School of Public Health, IL, August 2003 to December 2003.

Graduate biostatistics course taken at Hood College, Frederick, MD, January 2003 to May 2003.

B.A. in Mathematics with a concentration in Biochemistry from Carleton College, Northfield, MN, May 2002.

PROFESSIONAL EXPERIENCE

2006 – present, Graduate Teaching Assistant, Binghamton University.

Instructor of Record for Mathematics in Action (Math 130),

Elementary Statistics (Math 147),

Calculus I (Math 221),

Linear Algebra (Math 304),

Discrete Mathematics (Math 314), and

Introduction to Higher Mathematics and Number Systems (Math 330).

Responsibilities include devising a syllabus and lesson plans, lecturing, creating and grading problem sets, creating and grading quizzes and exams, creating and grading worksheets and supplementary activities, submitting final course grades as well as holding office hours, review sessions, and workshops.

Grading Assistant for Introduction to Higher Mathematics and Number Systems (Math 330).

Responsibilities included grading homework and exams for a large lecture class, holding office hours and review sessions.

2006, Mathematical Consultant

Wrote quiz and exam questions for a computer program designed to aid struggling junior high students.

2004 – 2006, Graduate Teaching Assistant, University of Vermont

Instructor of Record for College Algebra (Math 9), and

Introduction to Discrete Mathematics (Math 17).

Full responsibilities for the Instructor of Record.

MATHEMATICAL PUBLICATIONS

Wilcox, Elizabeth. "New Approaches to Suzuki's CA-Group Theorem." Masters Dissertation. University of Vermont, 2006.

BIOCHEMISTRY PUBLICATIONS

Wilcox, Elizabeth, Connor McGrath, Andrei V. Blokhin, Rick Gussio, Ernest Hamel. "Evidence for a distinct ligand binding site on tubulin discovered through inhibition by GDP of paclitaxel-induced tubulin assembly in the absence of exogenous GTP." Archives of Biochemistry and Biophysics 484 (2009): 55-62.

DeMartino, Gabriella, Giuseppe La Regina, Antonio Coluccia, Michael C. Edler, Maria Chiara Barbera, Andrea Brancale, Elizabeth Wilcox, Ernest Hamel, Marino Artico, and Romano Silvestri. "Arylthioindoles, Potent Inhibitors of Tubulin Polymerization." Journal of Medicinal Chemistry (2004): 6120-6123.

Wilcox, Elizabeth, Andrei Blockhov, Debbie J. Lee, Ernest Hamel. "An apparent absolute requirement for GTP in paclitaxel-driven tubulin assembly." Proceedings of the American Association of Cancer Research, 2003.

HONORS

- Binghamton University Dissertation Fellowship, Fall 2009
- Binghamton University Graduate Teaching Award, 2008
- University of Vermont John F. Kenney Graduate Award in Mathematics, 2006
- National Institutes of Health Cancer Research Training Award, 2002-2003

PRESENTATIONS

March 2010	Classes of Finite Groups and Permutability Properties, Lexington, KY "When the Base of a Wreath Product is not Characteristic"
March 2010	Willamette University Colloquium, Salem, OR "An Introduction to Group Theory"
January 2010	AMS/MAA Joint Mathematics Meeting, San Francisco, CA "Complete Groups"
January 2010	Carleton Summer Math Program for Women SMPosium, San Francisco, CA "Complete Groups"
November 2009	Binghamton University Graduate Conference in Algebra and Topology, NY "Unravelling Wreath Products"
August 2009	Groups St. Andrews 2009 at Bath, Bath Spa, England "Complete Wreath Products"
May 2009	Zassenhaus Conference at Franklin and Marshall College, Lancaster, PA "Complete Wreath Products"
April 2009	Seaway Section of the MAA Meeting at Rochester Institute of Technology "Wreath Products: An Introduction"
March 2009	Syracuse University Mathematics Graduate Organization Conference "Wreath Products and Automorphisms"
October 2008	Seaway Section of the MAA Meeting at Siena College, Loudonville, NY
Fall 2008	Binghamton University Graduate Algebra Seminar "An Introduction to Wreath Products"

May 2008	Ohio State-Denison Mathematics Conference, Ohio State University “ S_n wr C_2 is complete for $n \neq 2, 3, 6$ ”
March 2008	Syracuse University Mathematics Graduate Organization Conference “Complete Frobenius Groups”
Fall 2007	Binghamton University Graduate Algebra Seminar “The Automorphism Tower for a Finite Group of Trivial Center”
Spring 2007	Binghamton University Graduate Algebra Seminar “On a paper by B. Schumann”
Winter 2007	Binghamton University Undergraduate Algebra Seminar “A New Approach to Suzuki’s CA-Group Theorem”
Fall 2006	Binghamton University Graduate Algebra Seminar “Subnormal Subgroups and the Construction of Finite Solvable T-Groups”
May 2006	University of Vermont Graduate Student Research Day “A New Approach to Suzuki’s CA-Group Theorem”

CONFERENCES AND WORKSHOPS ATTENDED

March 2010	Classes of Finite Groups and Permutability Properties, Lexington, KY
January 2010	AMS/MAA Joint Mathematics Meeting, San Francisco, CA
January 2010	Carleton Summer Math Program for Women SMPosium, San Francisco, CA
November 2009	Binghamton University Graduate Conference in Algebra and Topology, NY
August 2009	Groups St. Andrews 2009 at Bath, Bath Spa, England
May 2009	Zassenhaus Conference at Franklin and Marshall College, PA
January 2009	National Science Foundation Day, Binghamton University
November 2008	Binghamton University Graduate Conference in Algebra and Topology
April 2008	Preparing Future Faculty Workshop at Syracuse University, NY
April 2008	Seaway Section of the MAA Meeting at Syracuse University
April 2008	Binghamton University Graduate Student Research Day
November 2007	Symposium to Mark the Birthday of D.J.S. Robinson, Auburn University at Montgomery, AL
March 2007	Binghamton University Graduate Student Research Day
October 2006	Discrete Mathematics Day, Skidmore College, Saratoga, NY
March 2006	Syracuse University Mathematics Graduate Organization Conference, NY

RESEARCH INTERESTS

- Group Theory, both finite and infinite, with particular interest in automorphism groups, permutation groups, and the connections between Group Theory and Graph Theory
- Epidemiology and Biostatistics

DEPARTMENTAL SERVICE

- Participant in the Binghamton University Undergraduate Research Fair, 2010
- Lead organizer of the Binghamton University Graduate Conference in Algebra and Topology, 2008
- Mentor for the Undergraduate Algebra Seminar at Binghamton University, Spring 2009
- Graduate Math Club President at Binghamton University, 2007 – 2010
- Graduate Student Research Day Committee at Binghamton University, 2007, 2008
- Department of Mathematical Sciences Senator to the Graduate Student Organization at Binghamton University, 2006 - 2008

- Graduate Committee in the Department of Mathematical Sciences at the University of Vermont, 2005 – 2006

REFERENCES

Ben Brewster, Professor of Mathematics, Binghamton University, ben@math.binghamton.edu, 607-777-4201

Fernando Guzman, Professor of Mathematics, Binghamton University, fer@math.binghamton.edu, 607-777-2876

Patricia McAuley, Associate Professor of Mathematics, Binghamton University, pat@math.binghamton.edu, 607-777-2764

Derek J. S. Robinson, Professor of Mathematics, University of Illinois at Urbana-Champaign, robinson@math.uiuc.edu, 217-333-6219