

Benjamin John Atchison

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EDUCATION

- 2011 Ph.D. Mathematics, University at Albany, SUNY, Albany, NY
Advisor: Edward Turner
Title: *Shift Automorphisms of Finite Outer Order*
- 2006 M.A. Mathematics, University at Albany, SUNY, Albany, NY
- 2003 B.A. Mathematics, The College of New Jersey, Ewing, NJ

RESEARCH INTERESTS

Algebraic Graph Theory and Combinatorial Group Theory

PROFESSIONAL EXPERIENCE

Assistant Professor, Framingham State University, Department of Mathematics,
2011-Present

- Teach three courses, totalling twelve credit hours per semester.
- Participate in student advising, service to the department and campus community.
- Actively pursue scholarly research.

Teaching Assistant, University at Albany, Department of Mathematics and Statistics,
2004-2006, 2007-2010

- Held regular office hours, taught and graded students, and created lesson plans, syllabi, quizzes and exams for twelve sections, spanning six course listings.
- Tutored undergraduates in the department's tutoring center.
- Utilized educational technology such as Maple/Sage, WebAssign, and MathXL for lectures, homework, and student presentations.
- Created a department-wide Calculus II final exam and coordinated an all-day review session.

Tutor Supervisor, University at Albany, Department of Mathematics and Statistics,
2009-2010

Created the position of Tutor Supervisor in order to address the general concerns about the proceedings of the department's undergraduate tutoring room. Duties of the Tutor Supervisor include, but are not limited to, the following:

- Organizing and conducting mandatory bi-annual workshops and follow-up meetings addressing tutor expectations, including basic responsibilities, protocol, and etiquette.

- Scheduling of tutor hours and development/administering of exams for the purpose of assessing undergraduate tutor applicants during the hiring process.
- Documenting tutor and student attendance, in order to provide the department with statistical evidence on the overall use and effectiveness of the tutoring room.
- Performing weekly observations of the proceedings of the department's tutoring room.
- Coordination and implementation of departmental final exam late-nite tutoring sessions in the University's Campus Center.

Graduate Assistant, *Teaching Mathematics for Understanding*, a Mathematics/Science Partnership between the University at Albany, the City School District of Albany, and the Schenectady City School District, funded by the New York State Department of Education, 2006-2007

- Developed and facilitated curriculum workshops, planning seminars and mathematics content activities for teachers of mathematics in grades K-8.
- Facilitated the implementation of a series of professional development workshops for approximately 50 K-8 teachers titled:
 - Hip, Hip, Array!, Understanding Multiplication, Decimal Fractions and Algebraic Reasoning Through Cooperative Learning and Concrete/Visual Representations, *John McAdam and Lauren Flood, Marist College*
 - Communication in the Mathematics Classroom: Inquiries and Congresses, *R. Daniel Hurwitz, Skidmore College and Sybillyn Jennings, Sage College*

Actuarial Intern, Selective Insurance Company of America, Branchville, NJ, 2001-2004

- Worked side-by-side with company's actuaries, creating and organizing spreadsheets in Microsoft Excel and Lotus 1-2-3 for state quarterly reviews and additional exhibits involving retention rates, as well as individual policy rating projections and adjustments.
- Successfully completed CAS/SOA Actuarial Exam 1 (2002).

CONFERENCES AND WORKSHOPS

- *AMS/MAA Joint Mathematics Meetings*
New Orleans, LA, January 2011
- *Binghamton University Graduate Conference in Algebra and Topology*
Binghamton University, Vestal, NY, November 2009
- *Finitely Presented Groups: Where do we go from here?*
The City College of New York, New York, NY, October 2009
- *47th Annual Cornell Topology Festival*
Cornell University, Ithaca, NY, May 2009
- *AMS/MAA Joint Mathematics Meetings*
Washington D.C., January 2009

- *46th Annual Cornell Topology Festival*
Cornell University, Ithaca, NY, May 2008
- *34th Annual New York State Regional Graduate Mathematics Conference*
Syracuse University, Syracuse, NY, March 2008
- *57th Annual AMTNYS Fall Conference*
Schenectady, NY, November 2007

PRESENTATIONS

- *Free Groups, Graphs, and Matrices*
Undergraduate Seminar,
Northern Arizona University, Flagstaff, AZ, April 2011.
- *Integral Matrices and the Class Number, Relating to \mathbb{Z}_n -Graphs*
Albany Mathematics Initiative,
University at Albany, Albany, NY, December 2010.
- *Seeing the Forest Through the Trees*
Graduate Student Seminar,
University at Albany, Albany, NY, April 2010.
- *Shift Automorphisms of Free Group*
Binghamton University Graduate Conference in Algebra and Topology,
Binghamton University, Vestal, NY, November 2009.
- *Shift Automorphisms of a Free Group*
Graduate Student Seminar,
University at Albany, Albany, NY, November 2008.

SERVICE AND MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Department of Mathematics and Statistics Graduate Student Seminar,
Coordinator, Fall 2007 - Fall 2008
- Department of Mathematics and Statistics Graduate Committee,
Student Representative, Fall 2008 - Spring 2009
- *American Mathematical Society*
- *Mathematical Association of America*
- *Association of Mathematics Teachers of New York State*
- *Pi Mu Epsilon*

AWARDS AND HONORS

- *Distinguished Doctoral Dissertation Award.*
University at Albany. Spring 2011.
- *Excellence in Teaching for Teaching Assistants.*
University at Albany. Spring 2010.
- *Outstanding Achievement as a Mathematics Major, Sophomore.*
The College of New Jersey. Spring 2001.

- *Outstanding Achievement as a Mathematics Major, Freshman.*
The College of New Jersey. Spring 2000.

ADDITIONAL INFORMATION

- Fluent in German language; Enrolled in Universität Frankfurt am Main, Germany.
August 2003 - March 2004.
- Experienced in the following programs/languages/instructional aides.
Advanced: WebAssign, Excel, Sage/Maple, L^AT_EX
Limited: HTML, GAP

REFERENCES

- Dr. Edward Turner (Research), *Professor Emeritus and Thesis Adviser.*
University at Albany. 518-275-5461. ecturner@gwu.edu
- Dr. Steven Plotnick (Teaching and Research), *Associate Professor and Director of Undergraduate Studies.*
University at Albany. 518-442-4613. plotnick@albany.edu
- Dr. Donald Wilken (Teaching), *Professor.*
University at Albany. 518-442-4632. wilken@albany.edu
- Dr. Richard Goldstein (Research), *Professor.*
University at Albany. 518-442-4609. richardg@albany.edu

August 26, 2011