

CURRICULUM VITAE
CHANTEL C. BLACKBURN
Revised September 2009

PERSONAL

- **Name:** Chantel Christine Blackburn
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EDUCATION

- Ph.D., Mathematics, University of Arizona, Tucson, AZ, **Projected May 2012**
- M.S., Mathematics, University of Arizona, Tucson, AZ, May 16, 2009 (comp. group theory)
- B.S., Mathematics, Andrews University, Berrien Springs, MI, May 7, 2006

ADVISORS

- **Master's Thesis Advisor:** Klaus M. Lux, Professor of Mathematics, University of Arizona, Tucson, AZ, 2008-2009
- **Undergraduate Academic Advisor:** Lynelle M. Weldon, Professor of Mathematics, Andrews University, Berrien Springs, MI, 2002-2006
- **Grand Valley State University REU Advisor:** Steven Schlicker, Professor of Mathematics, Grand Valley State University, Allendale, MI, June 2005-August 2005
- **Honors Thesis / Research Advisor:** Shandelle M. Henson, Professor of Mathematics, Andrews University, Berrien Springs, MI, 2004-2006
- **Honors Thesis Advisor:** James L. Hayward, Professor of Biology, Andrews University, Berrien Springs, MI, 2004-2005
- **Honors Thesis Advisor:** J. M. Cushing, Professor of Mathematics, University of Arizona, Tucson, AZ, 2004-2005

PROFESSIONAL PUBLICATIONS

- Cushing, J. M., Henson, S. M., and C. C. Blackburn 2007. Multiple mixed-type attractors in a competition model. *Journal of Biological Dynamics* 1:347-362.
- Blackburn, C. C., Lund, K., Schlicker, S., Sigmon, P., and A. Zupan. A Missing Prime Configuration in the Hausdorff Metric Geometry. To Appear in *Journal of Geometry* 92:28-59.

THESES

- Master of Science in Mathematics, An Application of the Computer Algebra System GAP: The Construction of the Simple Modules of a Finite Group, University of Arizona, April 28, 2009.
- Undergraduate Senior Honors, Competitive Coexistence in the Ricker Competition Model, Andrews University, April 22, 2005.

INVITED PROFESSIONAL TALKS

- “Constructing the Simple Representation Modules of Finite Groups Using GAP”, The Grad Student Math Colloquium...at the U of A, Department of Mathematics, University of Arizona, April 8, 2009.
- “Mysterious 19 and the Hausdorff Metric Geometry”, AMS Sectional Meeting, Notre Dame, IN, April 9, 2006.
- “Coexistence in a Ricker Competition Model”, AMS Sectional Meeting with Dr. Shandelle Henson (Andrews University), Lubbock, TX, April 8, 2005.

PRESENTATIONS AND PROFESSIONAL TALKS

- “The Hausdorff Metric Geometry: 19 is Just...Missing!”, The Grad Student Math Colloquium...at the U of A, Department of Mathematics, University of Arizona, March 21, 2007.
- “Mysterious 19 and the Hausdorff Metric Geometry”, Michigan MAA & MichMATYC 2006 Annual Meeting, Grand Rapids, MI, May 5, 2006.
- “Mysterious 19 and the Hausdorff Metric Geometry (...And Some Graph Theory)”, Colloquium, Department of Mathematics, Andrews University, September 9, 2005.
- “Mysterious 19 and the Hausdorff Metric Geometry”, MathFest Pi Mu Epsilon Student Sessions, Albuquerque, NM, August 4, 2005.
- “Mysterious 19 and the Hausdorff Metric Geometry”, Michigan Mathematics REU Conference, Grand Rapids, MI, July 25, 2005.
- “Investigating the Ricker Competition Model for Competitive Coexistence”, (Honors Thesis), Interdisciplinary Honors Seminar, Andrews University, April 15, 2005.
- “Investigating the Ricker Competition Model for Competitive Coexistence”, Colloquium, Department of Mathematics, Andrews University, March 25, 2005.
- “Competitive Coexistence in a Competition Model”, Honors Project Poster Session, Andrews University, March 6, 2005.
- “Basic Proof Writing Methods and Group Proof Writing Competition”, Colloquium with Kami Lizarraga (Andrews University), Department of Mathematics, Andrews University, September 24, 2004.
- “May’s Hypothesis in Ecology”, Colloquium, Department of Mathematics, Andrews University, November 7, 2003.

RESEARCH

- National Science Foundation REU, Andrews University, January 2006-May 2006
- Undergraduate research team, Andrews University, January 2004-May 2006
- Grand Valley State University REU, June 2005-August 2005

TEACHING

- Graduate Teaching Assistant, Department of Mathematics, University of Arizona, August 2006-Current
 - Understanding Elementary Mathematics (A) (Spring 2009)
 - Calculus I (Fall 2008)
 - Calculus Preparation (Fall 2007, Spring 2008)
 - Trigonometry (Fall 2006, Spring 2007, Summer Pre-session 2007)

- Teaching Assistant
 - Super-TA, Formal Mathematical Reasoning and Writing (Spring 2008)
 - Calculus I recitation teacher, Andrews University, January 2004-May 2006
- Contract Instructor, Department of Mathematics, Andrews University, June 2006-July 2006
 - Reasoning With Functions (General Education Math)
- Substitute Teaching, Andrews University, approximately 10 classes within 2005-2006
 - Calculus II, Differential Equations, Elementary Statistics, Precalculus (for Dr. Ronald Johnson)
 - Calculus I, and Differential Equations (for Dr. Shandelle Henson)
- Calculus I recitation teacher, Andrews University, January 2004-May 2006
- Lab assistant for remedial math course, Andrews University, August 2002-May 2006
- Math Center tutor, Andrews University, August 2002-May 2003

COMMUNITY OUTREACH

- Sonia Kovalevsky Day, Department of Mathematics, University of Arizona, April 2008
 - Conducted workshop, including creating manipulatives and handouts, geared toward female high school students.

OTHER

- Mathematical Consultant for Online Course Development, John Wiley & Sons, Inc., August 2007
- Textbook* Development Assistant, Donald Rhoads, May 2003-June 2005
 - *Rhoads, Donald H., and L. M. Weldon, Version 3.1, June 2005. *Logic and Functions*.

HONOR SOCIETIES

- Phi Kappa Phi (National)
- Pi Mu Epsilon (Mathematics)
- Sigma Pi Sigma (Physics)

PROFESSIONAL SOCIETIES

- American Mathematical Society

SPECIAL RECOGNITION

- Outstanding Graduate Teaching Assistant for Fall 2008, Department of Mathematics, University of Arizona, 2009
- Distinguished Undergraduate Scholar, Department of Mathematics, Andrews University, 2006
- Nominated for the 2006 Graduate Fellowship Competition of The Honor Society of Phi Kappa Phi, Andrews University, 2006
- Council on Undergraduate Research Best Pi Mu Epsilon Student Research Talk, MathFest 2005, Albuquerque, New Mexico
- President of Andrews University chapter of Pi Mu Epsilon, 2005-2006
- Math President of eigen* (Math and Physics club), Andrews University, 2004-2006
- Undergraduate Research Award, Andrews University, 2005
- Vice-President of Andrews University chapter of Pi Mu Epsilon, 2004-2005
- Math VP of eigen* (Math and Physics club), Andrews University, 2003-2004