

Elizabeth McLaughlin Wilson

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EDUCATION ◇ **University of Maryland**, College Park, MD.
Graduating with a Ph.D. in Mathematics in December 2010.
◇ **Allegheny College**, Meadville, PA.
Graduated Magna Cum Laude in May 2004 with a B.S. in Mathematics, and minors in French and Physics.

TEACHING ◇ **Lecturer for the University of Maryland Department of Mathematics**, January
EXPERIENCE 2011-Present

- Spring 2011 - Math 246 and Math 246H - Elementary Differential Equations
- ◇ **Teaching Assistant for the University of Maryland Department of Mathematics**, August 2004 - December 2010.

Sole Contact instructor:

- Summer 2010 - Math 240 - Linear Algebra
- Spring 2010 (also Spring 2009 and Fall 2005) - Math 213 - Geometry for Elementary Education Majors.
- Summer 2009 - Math 220 - Elementary Calculus I
- Summer 2008 (also Spring 2007 and Spring 2005) - Math 212 - Arithmetic and Number Theory for Elementary Education Majors
- Summer 2007 (also Fall 2006) - Math 113 - College Algebra

Discussion Leader

- Fall 2010 (also Fall 2009) - Math 241 - Multi-Variable Calculus
- Fall 2007 - Math 240 - Linear Algebra
- Spring 2006 - Math 141 - Calculus II
- Fall 2004 - Math 140 - Calculus I

Grader

- Fall 2008 - Math 600 - Graduate Abstract Algebra I
- Spring 2008 - Math 406 - Number Theory
- Summer 2005 - Math 498E - Euclidean and Non-Euclidean Geometry for High School Teachers (also helped during in class group projects)
- ◇ **Proctor**, Summer 2006. Proctored the Math Placement Exam for incoming college freshman
- ◇ **Assistant with the Maryland Mathematics Institute**, Summer 2009 and 2010. I helped high school geometry teachers learn how to use the program Geometer's Sketchpad.

- ◇ **Mathematics Instructor for the Academic Achievement Program**, Summer 2004. I taught pre-calculus to minority incoming college freshman.
 - ◇ **Tutor**, Spring 2001-Present. I have been a tutor for Allegheny College, the University of Maryland, and on an individual basis for a wide variety of college mathematics classes and a few entry level physics classes.
- RESEARCH
- ◇ **2006-2010**: Worked on my thesis under the supervision of my advisor, Dr. Harry Tamvakis, Title: *Equivariant Giambelli Formulas for Grassmannians*.
 - ◇ **Spring 2004**: Allegheny Senior Thesis Project, Advisor: Dr. Tamara Lakins, Title: *Number of Factorizations in a non-unique Factorization Domain*.
 - ◇ **Summer 2003**: REU at University of Tennessee, Advisor: Dr. David F. Anderson, Resulted in paper:
 - Anderson, David F.; Mclaughlin, Elizabeth V.: *How far is an HFD from a UFD?* Abelian groups, rings, modules, and homological algebra, 15-22, Lect. Notes Pure Appl. Math., 249, Chapman and Hall/CRC, Boca Raton, FL, 2006.
- TALKS
- ◇ **November 2010**: U. Maryland Ph.D. Defense. “Equivariant Giambelli Formulae for Grassmannians.”
 - ◇ **February 2008**: U. Maryland Preliminary Oral Defense. “Equivariant Cohomology and Restriction Formulae for the Complete Flag”
 - ◇ **Fall 2006**: U. Maryland Research Interaction Team on Representation Theory of Semisimple Groups. “Abstract Theory for Compact Groups”
 - ◇ **Spring 2006**: U. Maryland Research Interaction Team on Modular Forms. (2 talks) “Congruence Subgroups of $SL_2(\mathbb{Z})$ ” “An Introduction to Automorphic Forms and Functions”
 - ◇ **April 2004**: Defended for my Undergraduate Thesis at Allegheny College “Numbers of Factorizations in Non-unique Factorization Domains”
 - ◇ **March 2004**: Presented work from my Undergraduate Thesis at a Pi Mu Epsilon Conference at Youngstown State University in Ohio. “Numbers of Factorizations in Non-unique Factorization Domains”
 - ◇ **January 2004**: Presented a Poster at the Joint AMS/MAA meetings in Phoenix, AZ from my research at Tennessee with Dr. Anderson “How far is an HFD from a UFD?”
 - ◇ **August 2003**: Presented my results from the REU at Tennessee during a series of seminars at the end of the program. “How far is an HFD from a UFD?”
- ACADEMIC HONORS
- ◇ **Honors Received**
 - Dean’s Fellowship Award - October 2009.
 - Inducted into Phi Beta Kappa - May 2004.
 - Inducted into Pi Mu Epsilon - April 2002.
 - ◇ **Leadership Positions**
 - Vice President of the AWM chapter at University of Maryland - August 2008 to June 2009.
 - Graduate Advisor to the Math Club at University of Maryland - August 2007 to June 2009 and August 2010 to Present.
- TECHNICAL SKILLS
- ◇ Extensive understanding of Geometers Sketchpad
 - ◇ Some familiarity with Java, MATLAB, and HTML.
- REFERENCES
- Available upon request for character, research, and work experience.