

Chelsea Walton

CONTACT INFORMATION

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PERSONAL INFORMATION

Birth date and location: July 11, 1983; Detroit, Michigan.
Citizenship: USA

EDUCATION

University of Michigan, Rackham Graduate School, Ann Arbor, Michigan.
Ph.D in Mathematics, September 2005 - present.

- Ph.D. Candidate; Advisor: J. Tobias Stafford.
- Research Interests: Noncommutative and Commutative Algebra, Noncommutative Algebraic Geometry.
- Coursework in Algebraic Geometry; Commutative Algebra; Complex Analysis; General and Algebraic Topology; Lie Algebras; Noncommutative Algebra; Noncommutative Algebraic Geometry; Real Analysis.

University of Michigan, Rackham Graduate School, Ann Arbor, Michigan.
M.S. in Pure Mathematics, June 2007.

Michigan State University, Honors College, East Lansing, Michigan.
B.S. with High Honors in Mathematics, May 2005, **g.p.a. 3.97/ 4.00.**

- Concentration in Algebra.
- Graduate courses in Algebra, Combinatorics, and Error-Correcting Codes.

CONFERENCES, SCHOOLS, AND PRESENTATIONS

Noncommutative Geometry Workshop June 2007
University of New Brunswick (Fredericton), New Brunswick, Canada.

IAS Summer Workshop: Women and Mathematics May 2007
Institute of Advanced Study, Princeton, New Jersey USA.

- Program Theme: "Algebraic Geometry and Group Actions" (11 days).
- Presented: *Noncommutative Algebraic Geometry*.
- Panel Member: *How to Survive Graduate School*.

AMS Spring Central Section Meeting March 2007
Miami University, Oxford, Ohio.

- Special Session on Noncommutative Algebraic Geometry.

Scuola Matematica Interuniversitaria (SMI) August 2006
University of Perugia, Perugia, Italy.

- Coursework in Algebra and Algebraic Geometry (4 weeks).

IAS Summer Workshop: Women and Mathematics May 2006
Institute of Advanced Study, Princeton, New Jersey USA.

- Program Theme: "Zeta Functions All the Way" (11 days).

Third Annual MSU Student Mathematics Conference March 2005
Michigan State University, East Lansing, Michigan USA.

- Presented: *Bases of Spaces of Modular Forms with Weight 3/2*.

AMS/ MAA Joint Mathematics Meetings January 2005
Hyatt Regency Atlanta and Atlanta Marriott Marquis, Atlanta, Georgia USA.

Michigan Undergraduate Mathematics Conference October 2004
Central Michigan University, Mount Pleasant, Michigan USA.

- Presented: *Bases of Spaces of Modular Forms with Weight 3/2*.

Number Theory and Combinatorics REU May 2004 - July 2004
Clemson University, Clemson, South Carolina.

- Unrefereed paper: *Bases of Spaces of Modular Forms with Weight 3/2*.

- Advisors: Drs. Neil Calkin and Kevin James

- Presented three (3) lectures and participated in weekly seminars

First Annual MSU Student Mathematics Conference March 2003
Michigan State University, East Lansing, Michigan USA.

- Presented: *Mathematicians of the African Diaspora*.

TEACHING/
EMPLOYMENT

Graduate Student Instructor (GSI): MATH 115 Sept 2006 - Dec 2006
University of Michigan, Ann Arbor, Michigan.

- Course: Calculus I, Section 42.

- Provided four hours of instruction for thirty-two undergraduate students.

- Graded exams and administered weekly quizzes Team Homework.

GSI, Michigan Math and Science Scholars July 2006
University of Michigan, Ann Arbor, Michigan.

- Course: "Codes, Ciphers, and Secret Messages" with Dr. Carolyn Dean.

- Instructed thirteen high school age students in cryptology and number theory.

- Developed supplemental MAPLE projects and social activities.

- Maintained course website: www-personal.umich.edu/~notlaw/MMSS.html.

GSI, Emerging Scholars Program Aug 2004 - May 2005
Michigan State University, East Lansing, Michigan.

- Developed and provided enrichment material for students in Calculus I & II.

- Facilitated four hours of class per week and one hour of recitation.

- Graded and proctored exams for the Mathematics Department.

Mathematics Tutor September 2002 - present
East Lansing and Ann Arbor, Michigan.

- Tutors students in K-12 and most undergraduate mathematics courses.

- Worked with the Charles Drew Enrichment Lab at MSU (Sept 2002- May 2004)

Assistant Managing Editor September 2002 - May 2004
Michigan State University, East Lansing, Michigan.

- Edited galley proofs for the mathematics journal: [The Real Analysis Exchange](#).

- Supervisor: Dr. Clifford Weil.

HONORS AND AWARDS	Rackham Science Award (Fellowship) University of Michigan, Ann Arbor, Michigan.	September 2005
	Most Outstanding Presentation Award , Student Math Conf. Michigan State University, East Lansing, Michigan.	March 2005
	Department of Mathematics L.C. Plant Award Michigan State University, East Lansing, Michigan.	April 2004
	CNS Faculty Distinguished Endowed Scholarship Michigan State University, East Lansing, Michigan.	April 2002, 2003
SERVICE	Volunteer, <i>King/Chavez/Parks College Day</i> Program University of Michigan, Ann Arbor, Michigan USA. - Provided math activities for middle school students from Detroit, Michigan.	Oct 2005 - Nov 2005
	Volunteer, <i>My Brother's Keeper</i> Mentoring Program Michigan State University, East Lansing, Michigan USA. - Served as a mentor for a student at Malcolm X Academy in Detroit, Michigan.	January 2005 - May 2005
	Signature Student, College of Natural Science Direct Mail Campaign Michigan State University, East Lansing, Michigan USA.	Aug 2004
	Member, Mathematics Undergraduate Committee Michigan State University, East Lansing, Michigan USA. - Initiated the development of course MTH 290: <i>Transition to Higher Mathematics</i> .	August 2003 - May 2005
SKILLS	Mathematical Software: Maple, Mathematica, Matlab, L ^A T _E X. Web design: HTML and Dreamweaver. Common Windows database, spreadsheet, and presentation software.	
AFFILIATIONS	Member, American Mathematical Society, October 2004 - present. Member, Mathematical Association of America, October 2004 - present. Member, Benjamin Banneker Association Inc., February, 2004 - present.	

REFERENCES AVAILABLE UPON REQUEST