

CURRICULUM VITAE

EDUCATION

- Candidate for Ph.D. in Mathematics, University of Michigan, Ann Arbor, MI. September 2005 - June 2011 (expected). Advisor: [Jeffrey C. Lagarias](#).
 - M.A. in Mathematics, May 2007
- B.A. in Mathematics, Columbia University, New York, NY, May 2005. Advisor: [Patrick X. Gallagher](#)
 - Senior Thesis: "The Game of SET."

PAPERS, PREPRINTS, PUBLICATIONS

- "Set Theoretic Complete Intersections of Projective Curves," in preparation.
- "Galois Groups of p -Adic Polynomials of Fixed Degree," in preparation.(Joint with Chris Hall)
- "Applications of Adelic Poisson Summation," in preparation.(Joint with Thomas Wright)
- "The Game of SET," my senior thesis, in preparation for publication.

SELECTED TALKS

- "[Adelic Fourier Analysis](#)" Student Arithmetic Seminar, University of Michigan, Ann Arbor, MI, Sept 2009
- "[A Classical Introduction to the Gamma Function](#)" Student Arithmetic Seminar, University of Michigan, Ann Arbor, MI, Sept 2009
- "[Galois Groups of Random \$p\$ -Adic Polynomials of Fixed Degree](#)" Fields Institute--Conference in Number Theory, Carleton University, Ottawa, Canada, June 2009
- "[Galois Groups of Random \$p\$ -Adic Polynomials of Fixed Degree](#)" Combinatorial and Additive Number Theory Conference, CUNY New York, NY, May 2009
- "[An Introduction to Transcendental Number Theory](#)" Student Arithmetic Seminar, University of Michigan, Ann Arbor, MI, March 2009.
- "[An Introduction to Kissing Numbers](#)" Student Arithmetic Seminar, University

of Michigan, Ann Arbor, MI, February 2009.

- “[Random Walks](#)” Undergraduate Math Club, University of Michigan, Ann Arbor, MI, November 2008.
- “[Measure Theory of Continued Fractions](#)” Student Arithmetic Seminar, University of Michigan, Ann Arbor, MI, October 2008.
- “[An Improvised Talk on P-adic Hilbert Irreducibility](#)” Student Arithmetic Seminar, University of Michigan, Ann Arbor, MI, October 2008.
- “[An Introduction to Continued Fractions](#)” Student Arithmetic Seminar, University of Michigan, Ann Arbor, MI, September 2008.
- “[The Card Game: Set](#)” Undergraduate Math Club, University of Michigan, Ann Arbor, MI, November 2007.
- “[Mahler Measure](#)” Student Arithmetic Seminar, University of Michigan, Ann Arbor, MI, November 2007.
- “[The Generalized Factorial](#)” Undergraduate Math Club, University of Michigan, Ann Arbor, MI, December 2006.
- “Brownian Motion and Applications to Differential Equations” Student Analysis Seminar, University of Michigan, Ann Arbor, MI, November 2005.
- Briefed the Director of the NSA, Directors Summer Program, August 2005
- “[Probabilites in the Game of Set](#)”, My Senior Thesis. Undergraduate Mathematics Society, Columbia University, New York, NY, April 2005
- Briefed the Director of the NSA, Directors Summer Program, August 2004

RESEARCH EXPERIENCE

- Doctoral thesis at the University of Michigan, 2005-2011 (expected)
 - Working in number theory. Click [here](#) for a list of publications.
 - Advisor: J. Lagarias.
- Adjunct Researcher, Center for Communications Research (Princeton, NJ), Summers 2006 and 2007.
- [Director's Summer Program](#) (Ft. Meade, MD), 2005.
 - Applied sophisticated number theory to a problem in public key cryptography.
- Undergraduate senior thesis, 2004-2005.
 - Examined the probability of there existing a complete line contained in a random collection of points in $(\mathbb{Z}/3\mathbb{Z})^n$.
 - Advisor: P. Gallagher
- [Director's Summer Program](#) (Ft. Meade, MD), 2004.
 - Applied my math and computer skills to develop a cryptanalytic attack.

TEACHING EXPERIENCE

- Fall 2008-Spring 2011(Expected): Organized the University of Michigan's [Graduate Student Number Theory Seminar](#).
- Fall 2009: Instructor, Multivariable Calculus ([MATH215](#)), University of Michigan, Ann Arbor, MI.
- Fall 2008: Instructor, Integral Calculus ([MATH116](#)), University of Michigan, Ann Arbor, MI.
 - In charge of my section of this course. Was responsible for everything except the composition of course-wide exams and syllabus. Lectured 27 students. Was responsible for preparing 4.5 hours of weekly lecture, composing quizzes, and grading all student work.
 - This semester the University had online student reviews at the midpoint and end of the semester. Click [Here](#) for my midterm reviews. Click [Here](#) for my endterm review summary, and [Here](#) for all 27 endterm reviews.
- Spring 2008: Instructor, Integral Calculus ([MATH116](#)), University of Michigan, Ann Arbor, MI.
 - Same responsibilities as above. I only have hard-copy reviews from this semester.
- Fall 2007: Instructor, Differential Calculus ([MATH115](#)), University of Michigan, Ann Arbor, MI.
 - Same responsibilities as above. The only electronic reviews I have are the midterm forms. Click [Here](#). My end of term reviews are only available in hard-copy.
- Fall 2006: Instructor, Differential Calculus ([MATH115](#)), University of Michigan, Ann Arbor, MI.
 - Same responsibilities as above. I have only hardcopy reviews for this semester.
- Academic Year 2004-2005, Teaching Assistant for Real Analysis, Columbia University, New York, NY.
 - Assisted Prof. Patrick X. Gallagher in his undergraduate real analysis class. My responsibilities mostly included leading two hours a week of office hours. This was a combination of homework assistance, Q and A session, and supplementary lecture.
- Academic Year 2003-2004, Teaching Assistant for Honours Calculus 3 and 4, Columbia University, New York, NY.
 - Assisted Prof. Joan Birman with her class. My responsibilities mostly included weekly grading, and weekly office hours to assist students with

homework and answer questions.

CONFERENCES ATTENDED

- [Fields Institute--Conference in Number Theory](#), Carleton University, Ottawa, Canada, June 2009.
- [Combinatorial and Additive Number Theory Conference](#), CUNY, New York, NY, May 2009.
- [AMS Spring Central Sectional Meeting](#), University of Illinois, Urbana-Champaign, IL, March 2009.
- [Summer school in analytic number theory and diophantine approximation](#), University of Ottawa, Ontario, Canada, June-July 2008.
- [Arizona Winter School 2008: Special Functions and Transcendence](#), University of Arizona, Tucson, AZ, March 2008.
 - Worked on Papanikolas' project on Independence in positive characteristic. Made short presentation at the end of the program.
- [Midwest Number Theory Conference for Graduate Students V](#), University of Wisconsin, Madison, WI, November 2007
- [L-Functions and Automorphic Forms](#), In honor of Dorian Goldfeld's 60th birthday, Columbia University, New York, NY, May 2007.
- [Midwest Number Theory Conference for Graduate Students IV](#), University of Illinois, Urbana-Champaign, IL, October 2006.

AWARDS

- Top Graduate Student Instructor, University of Michigan Mathematics Department, Spring 2009.
- Mathematics Department Fellowship, University of Michigan Mathematics Department, 2005-2007.

OTHER

- Citizenship: US.
- Languages: English (native), Hebrew (proficient), French (can get by).
- Alum, Columbia University Late Nite theatre, and other musical theatre and theatre troupes (2001-2005 seasons).
 - Was on the selection committee for the plays performed. Performed in

several productions per semester.

- Alum, Columbia Area Volunteer Ambulance. Magen David Adom Ambulance corps(Haifa, Summer 2003), and several emergency squads in NJ. Was a trained and licensed EMT, and lifeguard.
 - Enjoy bridge, tap dancing, cooking, bicycling, raquetball, and playing any game or sport.
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