

Education

2005–2009 **BS in Mathematics**, *University of Illinois at Chicago*, Chicago, Illinois.

Experience

Research

2006–2008 **Independent Research Project on Prime Numbers**, Chicago, IL.
- Studied Chebyshev's Theorem, a weak version of the Prime Number Theorem
- Project presentation won third place in UIC's 2008 Undergraduate Research Forum
- Supervised by Jeremy Teitelbaum

2006–2007 **Independent Study Course on Lie Algebras**, Chicago, IL.
- Introductory reading course on the structure and classification of Lie algebras
- Supervised by David Radford

2008–Present **Independent Research Project on Elliptic Curves**, Chicago, IL.
- Studied the number of points on an elliptic curve over a finite field
- Supervised by Alina Cojocaru

2008–Present **Independent Research Project on Continued Fractions**, Chicago, IL.
- Studied various properties about the continued fraction expansion of \sqrt{p}/n for primes p
- Supervised by Ramin Takloo-Bighash

Vocational

2005–Present **Mathematics Tutor**, *University of Illinois at Chicago*, Chicago, IL.
- Lead study groups for various mathematics courses
- Created a computer sign-in system for the Mathematical Sciences Learning Center

2006–Present **Undergraduate Mentor**, *University of Illinois at Chicago ASCEND Program*, Chicago, IL.
- Provided guidance for incoming freshmen participating in the ASCEND summer program
- Tutored students in mathematics and gave presentations on various mathematical topics

2006–2008 **Undergraduate Grader**, *University of Illinois at Chicago*, Chicago, IL.
Graded homework papers for calculus courses

Miscellaneous

2007–Present **LANSOFT Consultant**, *Academic Computing and Communications Center*, Chicago, IL.
- Provided computing assistance to students, faculty, and staff
- Developed training and documentation for the Unix operating system and Python programming language
- Worked with Microsoft Active Directory to maintain campus computing equipment and software installation

Computer skills

Languages	Python, C/C++, PHP, Perl	Platforms	Linux, Unix, Windows
Web design	XHTML, CSS, Javascript	Databases	MySQL, SQL
Packages	Maple, Mathematica, SAGE	Administration	Linux servers, Active Directory

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Selected talks and presentations

- 2006 *The Conway and Fibonacci Sequences*, ASCEND summer program, Chicago, IL.
- 2007 *Fractals and Chaos Theory*, ASCEND summer program, Chicago, IL.
- 2008 *On Approximating the Number of Primes Less Than a Given Number* (poster presentation), SACNAS National Conference, Salt Lake City, UT.
- 2008 *Public Key Cryptography*, ASCEND summer program, Chicago, IL.
- 2008 *Undergraduate Studies in Mathematics*, Pritzker College Prep, Chicago, IL.

Research interests

- Computational number theory
- Primality testing and sieves
- The algebraic structure of elliptic curves
- Cryptography

Student organization participation

President	UIC chapter of the Society for the Advancement of Chicanos and Native Americans in Science
Vice President	UIC Linux Users Group
Research Scholar	Alliance for Minority Participation at UIC
Percussionist	UIC Concert Band