

Education

- **University of California at Berkeley**, Ph.D., expected in May 2008, *Component groups, Kolyvagin systems and Selmer groups*, Advisor: Professor Kenneth Ribet
- **Harvard University, Cambridge, MA**, B.A., *magna cum laude* with highest honors in mathematics, June 2004

Employment

- **Microsoft Research**, research intern, summers 2004, 2005, 2006, 2007.

Publications

7. *Global Divisibility of Heegner Points and Tamagawa Numbers* (19 pages), to appear in *Compositio Mathematica*.
6. *Explicit Heegner Points: Kolyvagin's Conjecture and Non-trivial Elements in the Shafarevich–Tate Group* (20 pages), with K. Lauter and W. Stein, to appear in *Journal of Number Theory*.
5. *On the Computation of the Cassels Pairing for Certain Kolyvagin Classes in the Shafarevich–Tate Group* (16 pages), with K. Lauter and K. Eisentraeger, submitted.
4. *Rapid Mixing and Bit Security of the Elliptic Curve Diffie-Hellman Secret Keys*, with R. Venkatesan, submitted to *EUROCRYPT, 2008*.
3. *On the Bits of the Elliptic Curve Diffie-Hellman Secret Keys* (15 pages), with D. Jao and R. Venkatesan, to appear in *INDOCRYPT, 2007*.
2. *On the Connectivity of Certain Configuration Spaces of Dimer Coverings*, with M. Freedman, in preparation.
1. *Visibility of Shafarevich–Tate Groups at Higher Level* (24 pages), with W. Stein, to appear in *Documenta Mathematica*.

Fellowships

- UC Berkeley Graduate Fellowship, 2004–2007.
- Microsoft Research Graduate Fellowship, 2006–2008.

Teaching

University of California at Berkeley

- *Linear Algebra and Differential Equations*, Fall 2007.
- *Multivariable Calculus*, Fall 2006.

Harvard University

- *Algebraic Geometry*, Spring 2004, teaching assistant.
- *Geometric Topology Tutorial*, Fall 2003, teaching assistant.
- *Abstract Algebra*, Spring 2003, teaching assistant.

Recent Talks

- University of California, Berkeley (number theory seminar), October 2007
- Clay Math Institute, Cambridge, MA (SAGE Days), September 2007
- University of Washington, Seattle (number theory seminar), July 2007
- Banff, Canada (BIRS workshop), June 2007

- Séminaire de théorie des nombres de Chevaleret, Paris, France, April 2007
- UC Berkeley (number theory seminar), December 2006
- UC Berkeley (number theory seminar), December 2004
- Harvard University (modular curves seminar), May 2004

Seminars Organized UC Berkeley graduate seminars, Berkeley, CA

- *Automorphic forms and Selmer groups*, with K. Ribet, Fall 2007.
- *p-adic Galois representations*, Fall 2006.
- *Iwasawa theory for cyclotomic fields*, Fall 2004.

University of Washington, Seattle, WA

- *Iwasawa theory for elliptic curves*, with R. Greenberg, Summer 2006.

Microsoft Research, Redmond, WA

- *The Gross-Zagier formula*, with K. Lauter, Summer 2007.

National Institute of Education, Oriahovitza, Bulgaria

- *Recent Developments in Cryptography and Information Security*, program committee chair, August 29–31, 2007.

Professional Service · Refereed papers for *Experimental Mathematics*, ANTS VIII.

Personal

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