

David Krumm

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Personal

Citizen of Costa Rica, Chile, and the United States.

Education

Ph.D. Mathematics, University of Georgia, 2013 (expected). Thesis advisor: Dino Lorenzini.

M.S. Mathematics, Georgia Institute of Technology, 2008.

B.S. Mathematics, Universidad de Costa Rica, 2005.

Publications

Computation of preperiodic structures of quadratic polynomials over number fields (with J. Doyle and X. Faber), 2012, submitted.

Computing numbers of bounded height (with J. Doyle), 2011, submitted.

Talks

Computation of preperiodic structures of quadratic polynomials over number fields. Canadian Number Theory Association XII Meeting. University of Lethbridge, 2012.

Computing numbers of bounded height. Palmetto Number Theory Series XVI. Emory University, 2011.

The BSD conjecture and related questions. Universidad de Costa Rica, 2011.

Stable reduction of curves of genus 2. University of Georgia number theory seminar, 2010.

Roth's (big) theorem. University of Georgia graduate student seminar, 2009.

Computing the Hilbert function of a complete intersection. University of Georgia graduate student seminar, 2009.

Awards

University of Georgia Dissertation Completion Award, 2012.

National Science Foundation VIGRE Fellowship, 2008 and 2010.

Goizueta Foundation Fellowship, 2007.

Universidad de Costa Rica, full scholarship for academic excellence, 2002-2005.

Conferences Attended

Canadian Number Theory Association XII Meeting (Lethbridge, Alberta 2012)
Summer School on Contemporary Methods for Solving Diophantine Equations (Banff, Alberta 2012)
Palmetto Number Theory Series XVI (Atlanta, Georgia 2011)
Summer School Program in Arithmetic Dynamics (Athens, Georgia 2011)
Second Summer School UCR & CSU (San José, Costa Rica 2011)
Canadian Number Theory Association XI Meeting (Wolfville, Nova Scotia 2010)
AMS Southeastern Section Meeting (Boca Raton, Florida 2009)
Palmetto Number Theory Series X (Savannah, Georgia 2009)
Doctoral Program on Diophantine Geometry (Rennes, France 2009)
Arizona Winter School in Mathematics (Tucson, Arizona 2007)

Teaching Experience

University of Georgia, 2008–2012.

Instructor for the courses Precalculus, Calculus I, and Calculus for Science & Engineering.

Georgia Institute of Technology, 2006–2008.

Instructor for the courses Calculus II and Calculus III.

Graduate teaching assistant for the courses Calculus II, Finite Mathematics, and Survey of Calculus.

Universidad de Costa Rica, 2002–2005.

Undergraduate teaching assistant for the courses Calculus I, Calculus II, Analysis, and General Topology.

Service

Organizer for the graduate student seminar in number theory since 2010.

Technical Skills

Programming languages: Experience with C, C++, Java, Python, and Perl.

Software: Mathematica, Magma, Sage, Macaulay2.

Markup languages: LaTeX, HTML.

Natural languages: Spanish (native), English (fluent), French (reading).