

Curriculum Vitae
Thomas J. Tucker

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Education

University of California at Berkeley, Ph.D. in Mathematics, 1998, under the supervision of Paul Vojta.

Harvard University, B.A. in Mathematics, 1991.

Awards and Honors

Outstanding Graduate Student Instructor award, University of California at Berkeley, 1997.

Grants and Fellowships Received

NSF Research Grant DMS-0101636 (8/2001 - 7/2003).

NSF Graduate Fellowship in Mathematics 1991-1994.

Research Interests

Diophantine geometry, number theory, algebraic geometry.

Publications

A. Granville and T. J. Tucker, *It's as easy as abc*, Notices of the AMS **49** No. 10, November 2002, 1224–1231.

D. Lorenzini and T. J. Tucker, *Thue equations and the method of Chabauty-Coleman*, Invent. Math., **148** (2002), 47–77.

P. Cutter, A. Granville, and T. J. Tucker, *The number of fields generated by the square root of a given polynomial*, Canadian Mathematical Bulletin, **45** (2003), 71–79.

T. J. Tucker, *Irreducibility, Brill-Noether loci, and Vojta's inequality*, Trans. Amer. Math Soc. **354** (2002), 3011–3029.

X. Song and T. J. Tucker, *Arithmetic discriminants and morphisms of curves*, Trans. Amer. Math Soc. **353** (2001), 1921–1936.

X. Song and T. J. Tucker, *Dirichlet's Theorem, Vojta's inequality, and Vojta's conjecture*, Compositio Math. **116** (1999), 219–238.

G. J. Sherman, T. J. Tucker, and M. E. Walker, *How Hamiltonian can a finite group be?* Archiv der Mathematik (Basel) **57** (1991), 1–5.

Preprints and Work in Preparation

A. Granville and T. J. Tucker, *It's as Easy as abc: An Introduction to Topics in Modern Number Theory* (book), in preparation.

T. J. Tucker and M. Zieve, *Permutation polynomials, curves without points, and Latin squares*, in preparation.

T. J. Tucker and M. Zieve, *Exceptional covers and injections of rational points*, preprint.

L. Szpiro, T. J. Tucker, and J. Pineiro, *Mahler measure for dynamical systems on \mathbb{P}^1 and intersection theory on a singular arithmetic surface*, preprint.

Positions

2002-present: Graduate Center of the City University of New York, Visiting Assistant Professor.

1998-2002: University of Georgia, Department of Mathematics, Post-Doctoral Researcher and Instructor.

Conferences

AMS Special Session on Diophantine Geometry, Albuquerque, NM, 1997, invited talk.

Newton Institute, Workshop on Arakelov Theory and Special Values of L -functions, 1998, invited talk.

AMS Special Session on Interconnections Between Nevanlinna Theory, Diophantine Geometry, and Algebraic Geometry, 1999, invited talk.

MSRI Workshop on Arithmetic Geometry, 2000, invited talk.

AMS Special Session on Number Theory, Boston, 2002, invited talk.

Brown VIGRE Number Theory conference, 2003, invited talk.