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Education

Ph.D. Mathematics, University of Washington, June 2007. Adviser: Rekha R. Thomas.
B.A. Mathematics, Oberlin College, 2001; graduated with high honors.

Professional Experience

NSF Institutes Postdoctoral Fellow, Mathematics Department, San Francisco State University, August 2010–May 2011.

Coleman Postdoctoral Fellow, Department of Mathematics and Statistics, Queen's University, Kingston, Ontario, Canada, July 2007–June 2010.

Postdoctoral Fellow, Mathematical Sciences Research Institute, August–December 2009.

Long-term Visitor, Institute for Mathematics and its Applications, Minneapolis, January–March 2007.

Publications

Computing tropical varieties (with Anders Jensen, David Speyer, Bernd Sturmfels, and Rekha Thomas.) *Journal of Symbolic Computation* v. 42, 2007, no. 1-2, pp. 54-73.

The circuit ideal of a vector configuration (with Anders Jensen and Rekha Thomas.) *Journal of Algebra* v. 309 (2), 2007, pp. 518-542.

Small Chvátal rank (with Annie Raymond and Rekha Thomas.) Accepted for publication in *Mathematical Programming*. Available at arXiv:0705.1027.

Preprints

Equality of Graver bases and universal Gröbner bases of colored partition identities (with Raymond Hemmecke and Sonja Petrović.) Submitted; available at arXiv:1004.0840.

In Preparation

A local obstruction to lifting tropical curves in hypersurfaces (with Eric Katz.)

The polytope of maps between regular polygons (with Mark Contois and Joseph Gubeladze.)

Tropical rational curves on tropical hypersurfaces in projective space (with Erwan Brugallé and Ethan Cotterill.)

Awards

AMS Math. Research Community: *Computational Algebra and Convexity*, 2008–2009.

University of Washington VIGRE fellow, 2001–02 and 2004–05.

University of Washington Graduate School Merit Award, 2001.

Invited Talks

Date	Location	Event
June 2010	Osaka, Japan	Gröbner Bases and the Industrial Society
20 January 2010	Queen's University	Algebraic Geometry Seminar
6 November 2009	MSRI	Postdoctoral Seminar
29 May 2009	Heidelberg Univ.	Algebra & Number Theory Seminar
17 February 2009	Ohio State Univ.	Algebraic Geometry Seminar
7 January 2009	Washington D.C.	Joint Mathematics Meetings
7 December 2008	Ottawa	CMS Winter Meeting
18 October 2008	Kingston, ON	Route 81 Conference
6 October 2008	Queen's University	Algebraic Geometry Seminar
22 June 2008	Snowbird, UT	Workshop: Comput. Algebra and Convexity
9 May 2008	San Francisco State Univ.	Algebra-Geometry-Combinatorics Seminar
8 April 2008	Univ. of Washington	Algebra Seminar
24 September 2007	Queen's University	Algebraic Geometry Seminar
13 February 2007	Univ. of Minnesota	IMA Postdoc Seminar
15 November 2006	UC Davis	Discrete Math and Repr. Theory Seminar
13 November 2006	UC Berkeley	Combinatorics Seminar
18 January 2006	Univ. of Washington	Combinatorics and Geometry Seminar
21 October 2005	San Francisco State Univ.	Algebra-Geometry-Combinatorics Seminar
12 May 2005	Univ. of Washington	Current Problems Seminar

Posters

Date	Location	Event
September 2006	Alcala de Henares, Spain	Workshop on Geom. and Top. Combinatorics
9-11 April 2010	Amherst, MA	Algebraic Geometry Northeastern Series

Funded Conferences and Workshops

Date	Location	Title
April 2009	AIM	Combinatorial Challenges in Toric Varieties
January 2009	Washington, D.C.	Joint Mathematics Meetings
March 2008	Cornell Univ.	A Macaulay2 Conference
September 2006	Alcalá de Henares, Spain	Geometric and Topological Combinatorics
June 2006	Snowbird, Utah	Discrete and Comput. Geometry - 20 Years Later
June 2006	Snowbird, Utah	Integer Points in Polyhedra
August 2005	Banff, Alberta	Computing the Continuous Discretely
May 2005	Porto Conte, Italy	Effective Methods in Algebraic Geometry
May 2005	Porto Conte, Italy	CoCoA School
July 2004	Park City, Utah	PCMI summer school: Geometric Combinatorics
January 2004	Phoenix	AMS short course: Trends in Optimization

Professional Activities

Organization committee for *Formal Power Series & Algebraic Combinatorics 2010*

Referee for the journals *Algebraic Colloquium* and *Intl. Trans. in Operations Research*.

Guest lecturer in the course *Computational Algebra and Algebraic Geometry*, taught by Susan Colley at Oberlin College, 1–3 December 2008.

Research assistant to Joseph Gubeladze. San Francisco State, 1 May – 20 June 2008.

Assistant at the tutorial *Algebraic Algorithms in Optimization*, Institute for Mathematics and its Applications, Minneapolis, 12–13 January 2007.

Organizer of U. of Washington VIGRE examples seminar, winter and spring 2005.

Organizer of U. of Washington math department's current problems seminar, 2003–2004.

Summer REU under Vic Reiner. Minneapolis, June–July 2000.

Budapest Semesters in Mathematics. Budapest, Hungary, January–May 2000.

Teaching Experience

Instructor: linear algebra, winter 2010 (Queen's.)

Instructor: linear algebra II, winter 2009 (Queen's.)

Instructor: calculus I, autumn 2008 (Queen's.)

Instructor and course coordinator: calculus, autumn 2007 and winter 2008 (Queen's.)

Instructor: linear algebra, spring 2007 (Washington.)

Instructor: calculus III, spring 2004 and spring 2006 (Washington.)

Instructor: calculus I, summer 2003 (Washington.)

Instructor: precalculus, spring 2003 (Washington.)

Teaching assistant: combinatorics, autumn 2003 and winter 2004 (Washington.)

Teaching assistant: mathematical modelling, autumn 2005 (Washington.)

Teaching assistant: math for life sciences, 2002–2003 (Washington.)

Teaching assistant: calculus I, autumn 2001 (Washington.)

Mathematics tutor: 1999–2001 (Oberlin.)

References:

On request.