

Curriculum Vitae

Jonah David Blasiak

ADDRESS

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CITIZENSHIP

United States

DATE OF BIRTH

July 24, 1982

WEBSITE

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EDUCATION

2004 – 2009 Ph.D. in Mathematics, University of California, Berkeley

Advisor: Mark Haiman

Thesis: “Cyclage, catabolism, and the affine Hecke algebra.”

2000 – 2004 A.B. in Mathematics, Princeton University, *magna cum laude*.

Advisor: Paul Seymour

RESEARCH INTERESTS

Algebraic combinatorics and representation theory.

PUBLICATIONS

An insertion algorithm for catabolizability, in preparation.

W -graph versions of tensoring with the \mathcal{S}_n defining representation, preprint (2008), [arXiv:0809.4810v1](https://arxiv.org/abs/0809.4810v1).

The toric ideal of a graphic matroid is generated by quadrics, *Combinatorica*. **28**, no. 3 (2008), 283–297.

(with A. Berglund and P. Hersh) Combinatorics of multigraded Poincaré series for monomial rings, *J. Algebra*. **308**, no. 1 (2007), 73–90.

A special case of Hadwiger’s conjecture, *J. Combin. Theory Ser. B*. **97**, no. 6 (2007), 1056–1073.

(with R. Durrett) Random Oxford graphs, *Stochastic Process. Appl.* **115**, no. 8 (2005), 1257–1278.

AWARDS & HONORS

2009 Clay Mathematics Institute Liftoff Fellow

2009 AIM Fellowship Finalist

2005 – 2008 National Science Foundation Graduate Research Fellowship

2004 Middleton Miller ’29 prize for outstanding senior thesis work

2003 New Jersey Beta Chapter of Phi Beta Kappa

2002, 2003 Recipient of the Fred Fox Class of 1939 Fund

2001 Shapiro Prize for Academic Excellence

2000 Grand Award, Montgomery County Science Fair

2000 Semi-Finalist, Intel Science Talent Search

TALKS

- 2008 Dec. **MIT** (Combinatorics Seminar)
 Nov. **UC Davis** (Discrete Mathematics & Representation Theory)
 Sep. **Berkeley** (Representation Theory, Geometry & Combinatorics Seminar)
 Jun. **Berkeley** (Workshop on Representation Theory, Geometry and Combinatorics)
Cyclage, catabolism, and the affine Hecke algebra.
- May **Vanderbilt University** (21st Cumberland Conference on Graph Theory, Combinatorics, and Computing)
A special case of Hadwiger's conjecture.
- 2007 Dec. **Berkeley** (Mini-Conference for Peter Teichner's course on super symmetric field theories and generalized cohomology)
Classification of super Lie algebras.
- Apr. **Berkeley** (Student Representation Theory, Geometry & Combinatorics Seminar)
Kazhdan-Lusztig cells of the tensor tree.
- 2005 Oct. **Berkeley** (Combinatorics Seminar)
Texas A&M (Combinatorics Seminar)
The toric ideal of a graphic matroid is generated by quadrics.
- Mar. **Berkeley** (Commutative Algebra and Algebraic Geometry Seminar)
The Berglund complex and multigraded Poincaré series
- 2003 Jan. **Baltimore, MD** (Joint Mathematics Meetings)
The longest common subsequence problem.

COMPUTER EXPERIENCE

Good knowledge of Magma and C++. Some knowledge of Matlab and Maple.

TEACHING EXPERIENCE

- 2005 Spring Graduate student instructor for linear algebra (Math 54) with Arthur Ogus.
 2004 Fall Graduate student instructor for calculus (Math 1B) with Ole Hald.
 2004 Summer Junior staff member at Hampshire College Summer Studies in Mathematics.

MATHEMATICAL ACTIVITIES

- 2007 May CRM workshop on algebraic geometry and algebraic combinatorics.
 2003 Fall Student in the Budapest Semesters in Mathematics program.
 2003 Summer Participant in the Cornell University REU program (Supervisor: Rick Durrett).
 2002 Summer Participant in the East Tennessee State University REU program (Supervisor: Anant Godbole).
 2001 Summer Participant in the Lafayette College REU program (Supervisor: Lorenzo Traldi).

Journals Refereed:

- Notices of the AMS
 Electronic Journal of Combinatorics
 Discrete Mathematics