

Alexander J. Stathis

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My research interests are in intersection theory, birational geometry, and enumerative geometry. I am especially interested in questions concerning Hilbert schemes and moduli spaces in general.

Education

- 2017 Ph.D. Pure Mathematics, *University of Illinois at Chicago*, Chicago, IL.
Thesis Title: *Intersection Theory on the Hilbert Scheme of Points in the Projective Plane*
My advisor was İzzet Coşkun.
- 2011 B.A. Mathematics, *University of California at Santa Cruz*, Santa Cruz, CA.
B.S. Computer Science, *University of California at Santa Cruz*, Santa Cruz, CA.

Appointments

- 2017-2018 RTG Postdoctoral Teaching and Research Associate, *University of Georgia*, Athens, GA.

Publications

- 2017 Alexander Jon Stathis. An algorithm for intersections in $\mathbb{P}^{2[N]}$. *Communications in Algebra*, 45(9):3778–3791.

Awards

- 2015 NSF Research Training Groups Fellowship, *NSF Award DMS-1246844*.
- Fall 2013 NSF Research Training Groups Fellowship, *NSF Award DMS-1246844*.

Teaching Experience

- 2011–Current Teaching Assistant, *Department of Mathematics, Statistics, and Computer Science*, UIC.
M090: College Algebra; SEW M090: Summer Enrichment Workshop on College Algebra;
M180: Calculus I; M181: Calculus II; M210: Calculus III.
Grader, *Department of Mathematics, Statistics, and Computer Science*, UIC.
M310: Applied Linear Algebra; M330: Abstract Algebra; M516: Abstract Algebra I; M517:
Abstract Algebra II; M552: Algebraic Geometry.

Conferences and Seminars

Organized

- Spring 2015 Midwest Algebraic Geometry Graduate Conference, *UIC*.
- Spring 2014 RTG Mini Course in Intersection Theory, *UIC*.
- Spring 2014 Midwest Algebraic Geometry Graduate Conference, *UIC*.
- Fall 2013 Graduate Algebraic Geometry Seminar, *UIC*.

Selected Conferences Attended

- Summer 2016 Introductory Workshop on Combinatorial Algebraic Geometry, *Fields Institute, University of Toronto.*
- Spring 2016 Local and Global Methods in Algebraic Geometry, *UIC.*
- Summer 2015 Graduate Student Bootcamp; Algebraic Geometry SRI, *University of Utah.*
AMS Summer Research Institute in Algebraic Geometry, *University of Utah.*
Attended weeks one and two.
- Summer 2014 Graduate Workshop on Moduli of Curves, *Stony Brook University.*
- Fall 2013 Graduate Workshop on the Geometry of Hilbert Schemes, *Stony Brook University.*

Invited Talks and Posters

- Summer 2017 Algebraic Geometry Seminar, *UNAM, Oaxaca, MX.*
Intersection Theory on $\mathbb{P}^{2[N]}$.
- Summer 2016 Introductory Workshop on Combinatorial Algebraic Geometry, *Fields Institute, University of Toronto.*
Poster Presentation: *Intersection Theory on $\mathbb{P}^{2[N]}$.*
- Spring 2016 Graduate Algebraic Geometry Seminar, *UIC.*
- Fall 2015 Graduate Algebraic Geometry Seminar, *UIC.*
- Spring 2015 Graduate Student Seminar, *Northwestern University.*
A Brief Introduction to Birational Geometry and Moduli Spaces.
Graduate Algebraic Geometry Seminar, *UIC.*
- Fall 2014 Graduate Algebraic Geometry Seminar, *UIC.*
- Fall 2013 Graduate Algebraic Geometry Seminar, *UIC.*