

SEBASTIAN CASALAINA-MARTIN

Simons Instructor
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Personal Information

Born: December 23, 1976 in Oakland CA, USA.
Citizenship: United States.

Education

- Ph.D., Mathematics, Columbia University, May 2004.
Dissertation: “Singularities of the Prym theta divisor, and applications to cubic threefolds.”
Advisor: Robert Friedman.
- M.A., Mathematics, Columbia University, 2000.
- B.Sc., Mathematics, *Honors*, Brown University, 1998.

Research Interests

Algebraic geometry, abelian varieties, and cubic threefolds.

Publications

- *Cubic Threefolds and Abelian Varieties of Dimension Five*, with Robert Friedman, J. Algebraic Geom. **14** (2005) 295-326.
- *Singularities of the Prym theta divisor*, Preprint.

Talks

- Harvard, *Algebraic Geometry Seminar*, March 2005
- SUNY Stony Brook, *Algebraic Geometry Seminar*, September 2004
- Salamanca, Spain, *III Iberoamerican conference on Geometry*, June 2004
- Columbia University, *Algebraic Geometry Seminar*, April 2004

Teaching Experience

- **Instructor**

Calculus 131, Fall 2004, Spring 2005.

Calculus IA, Spring 2003.

College Algebra and Analytic Geometry, Summer & Fall 2002.

Basic Mathematics, Spring 2002.

Calculus I, Summer 2001.

- **Teaching Assistant**

Graduate Commutative Algebra, Fall 2003.

Basic Topology, Fall 2003.

Calculus IIS *Mathematica* based recitation section, Spring & Fall 2001.

Calculus IS *Mathematica* based recitation section, Fall 2000.

- **VIGRE Undergraduate Summer Research Projects**

Discrete Morse Theory, Summer 2003.

Algebraic Coding Theory, Summer 2002.

- **Training**

One semester course on the teaching of mathematics, Spring 2000.

Fellowships and Memberships

- NSF Mathematical Sciences Postdoctoral Research Fellowship, 2005.
- NSF VIGRE, Fellowship, Fall 1999, Spring 2000, Summer 2000.
- Sigma Xi, Member since 1998.

Committees

Coordinator of Columbia University Mathematics Department Graduate Colloquium, Fall 2000 & Spring 2001.

Skills and Languages

Proficiency in *Mathematica* and basic knowledge of C.

Proficiency in French and basic knowledge of Hindi.

References

Robert Friedman, rf@math.columbia.edu

John Morgan, jm@math.columbia.edu

Michael Thaddeus, thaddeus@math.columbia.edu

Patrick Gallagher, pxg@math.columbia.edu