

Ana-Maria Castravet

CONTACT INFORMATION

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA.
Ph.D. in Mathematics, June 2002.
Thesis advisor: Joe Harris (Harvard University).
Graduate advisor: Steven Kleiman.

University of Bucharest, Romania.
Licență in Matematică, July 1997.

APPOINTMENTS

Assistant Professor (Tenure-Track), University of Arizona, 01/2008 - present.
Visiting Assistant Professor, University of Massachusetts at Amherst, 08/2006 - 12/2007.
Instructor, University of Texas at Austin, 08/2003 - 07/2006.
Member, Institute for Advanced Study, Princeton, NJ, 09/2002 - 06/2003.

VISITING POSITIONS

Research member, MSRI Berkeley, Program in Algebraic Geometry, 01/2009 - 05/2009.
Max-Planck Institut, Bonn, Germany, 05/2008 - 07/2008.
Institute des Hautes Études Scientifiques, Bur-sur-Yvette, France, 05/2004 - 07/2004.
Max-Planck Institut, Bonn, Germany, 05/2003 - 07/2003.

HONORS AND AWARDS

Teaching Assistantship, Massachusetts Institute of Technology, 1997 - 2002.
Research Assistantship, Massachusetts Institute of Technology, 01/2001 - 05/2001.
Liberty Mutual Foundation Fellowship Award, 08/1997 - 12/1997.
Soros Foundation travel grant, Romania August 1997.
National Scholarship for Exceptional Results, Romania, 1993 - 1997.
Selection for the National Olympiad of Mathematics, Romania 1987 - 1993.
Honorable Mention, 1988, 1992.

PUBLICATIONS AND PREPRINTS

C. Araujo and A.-M. Castravet, Polarized minimal families of rational curves and higher Fano manifolds. Submitted for publication. Preprint arXiv:0906.5388v1 [math.AG] (2009).
A.-M. Castravet and J. Tevelev, Exceptional loci on $\overline{M}_{0,n}$ and hypergraph curves. Currently under revision. Preprint arXiv:0809.1699v1 [math.AG] (2008).
A.-M. Castravet, The Cox ring of $\overline{M}_{0,6}$. Trans. Amer. Math. Soc. **361** (2009), 3851 - 3878.
A.-M. Castravet, Examples of Fano varieties of index one that are not birationally rigid. Proc. Amer. Math. Soc. **135** (2007), 3783 - 3788.
A.-M. Castravet and J. Tevelev, Hilberts 14th problem and Cox rings. Compositio Math. **142**

(2006), 1479 - 1498.

A.-M. Castravet, Rational families of vector bundles on curves. *International Journal of Mathematics* **15**, No. 1 (2004), 13 - 45; more complete version: arXiv:math/0302133v1 [math.AG], arXiv:math/0302135v1 [math.AG]

A.-M. Castravet, Ample and nef divisor classes on the Kontsevich moduli space. Preprint (2001).

CONFERENCE
TALKS

“Algebraic Geometry Northeastern Series” Workshop, SUNY Stony Brook, NY, November 2009.

“Cox rings” Workshop, Tübingen, Germany, July 2009.

“Spaces of curves and their interaction with diophantine problems”, Columbia University, June 2009.

“Western Algebraic Geometry Seminar”, University of California at Berkeley, April 2009.

American Mathematical Society/Sociedade Brasileira de Matematica, First Joint Meeting, IMPA, Rio de Janeiro, Brazil, June 2008.

ICM Satellite Conference in Algebraic Geometry, Segovia, Spain, August 2006.

Workshop “Algebraic vector bundles”, Münster, Germany, June 2006.

BIRS Workshop, Recent trends in higher dimensional algebraic geometry, Banff, Canada, April 2006.

“AMS Summer Institute in Algebraic Geometry”, Seattle, August 2005.

“Texas Algebraic Geometry Seminar”, Rice University, May 2005.

American Mathematical Society/Sociedad Matematica Mexicana, 6th Joint Meeting, Houston, May 2004.

“Vector bundles on algebraic curves”, Porto, Portugal, July 2003.

“Curves and their moduli”, University of Michigan at Ann Arbor, February 2002.

“Higher dimensional varieties and rational points”, Budapest, Hungary, September 2001.

COLLOQUIA AND
SEMINAR TALKS

2009: Humboldt University of Berlin, University of Freiburg, San Francisco State University, University of Utah.

2008: University of California at San Diego, University of Georgia, University of Illinois at Chicago, Humboldt University of Berlin, Max-Planck Institut Bonn, University of Pennsylvania.

2007: Rice University, Humboldt University of Berlin, University of California at Berkeley, University of Missouri St. Louis (Colloquium), Wesleyan University (Colloquium), SUNY Buffalo (Colloquium), University of Arizona.

2005 - 2006: Harvard University, Princeton University, University of Massachusetts at Amherst, University of Texas at Austin.

2002 - 2004: Harvard University, Institute des Hautes Études Scientifiques, Max-Planck Institut Bonn, Princeton University, Rice University, University of Pennsylvania, University of Texas at Austin.

TEACHING
EXPERIENCE

2008 - present, Instructor, University of Arizona.

- Introduction to Abstract Algebra I, Fall 2009.

- Multivariable Calculus, Fall 2008.

- Commutative Algebra, Spring 2008.

2006 - 2007, Instructor, University of Massachusetts at Amherst.

- Calculus I, Fall 2007, Spring 2007, Fall 2006.
- Linear Algebra, Spring 2007.

2003 - 2006, Instructor, University of Texas at Austin.

- Introduction to Number Theory, Summer 2006.
- Calculus I, Spring 2006.
- Discrete Mathematics, 2003 - 2006.
- Linear Algebra, Fall 2005, Spring 2005, Spring 2004.
- Algebraic Geometry II, Fall 2005.
- Differential Equations, Fall 2004.
- Multivariable Calculus, Fall 2003.

1998 - 2002, Teaching Assistant, Massachusetts Institute of Technology.

- Algebraic Geometry I (Grader), Fall 2001, Fall 1999.
- Algebraic Geometry II (Grader), Spring 2000.
- Topics in Algebraic Geometry (Grader), Fall 2000.
- Linear Algebra (Instructor), Summer 1999.
- Multivariable Calculus (TA), Spring 1999.
- Commutative Algebra (Grader), Fall 1998.
- Algebraic Topology (Grader), Spring 1998.

SERVICE

Coordinator for Independent Study in Algebraic Geometry, Fall 2009.

Organizer for Algebraic Geometry Seminar, University of Arizona, Fall 2009, Fall 2008.

Colloquium Chair, University of Arizona, 2008 - 2009.

Coordinator for Independent Study in Algebra, Fall 2008.

Doctoral committee member: Ph.D. dissertation of Adam Parker, University of Texas at Austin, Spring 2005.

Referee for *Compositio Mathematica*, *Geometriae Dedicata*, *Inventiones Mathematicae*, *Journal of Algebra*, *Journal of Algebra and Number theory*, *Mathematische Zeitschrift*.

PROFESSIONAL ASSOCIATIONS

American Mathematical Society

Association for Women in Mathematics

PERSONAL

Romanian Citizenship, U.S. permanent resident.