

# Andrea Ferretti

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Born: March 14, 1981–Lucca, Italy

Nationality: Italian

## Research interests

Algebraic geometry, in particular questions regarding holomorphic symplectic varieties and their Lagrangian fibrations. In my Ph.D. thesis I've been studying the geometry of double covers of EPW sextics to prove a conjecture by Beauville on their Chow ring. In my master thesis I was concerned with the arithmetic properties of the ring of linear recurrences defined over number fields.

## Publications

- 2010 *The Chow ring of double EPW sextics.*  
Submitted to Algebra and Number Theory.
- 2010 *Special subvarieties of EPW sextics.*  
Submitted to Mathematische Zeitschrift.
- 2007 *Equations in the Hadamard ring of rational functions* (with Umberto Zannier).  
Annali della Scuola Normale Superiore di Pisa, Classe di scienze, Serie V, Vol. VI, 2007

## Appointments held

- 2010–  
2009–2010 Postdoc at the University of Lille 1  
Guest at the Max Planck Institut in Bonn

## Education

- 2009 Ph.D. in mathematics (algebraic geometry)  
Dissertation title: *The Chow ring of double EPW sextics*  
Supervisor prof. K. G. O'Grady.
- 2005 Diploma from the Scuola Normale Superiore.  
Final grade: 70/70 cum laude.
- 2004–2009 *Doctoral school in mathematics* at the University *La Sapienza*, Roma.

- 2004 Degree in mathematics (number theory)  
 Dissertation title: *Equazioni nell'anello di Hadamard*  
 Supervisor prof. U. Zannier; Co-supervisor prof. R. Dvornicich.  
 Final grade: 110/110 cum laude.
- 2001–2004 *Science class* at the Scuola Normale Superiore, Pisa.
- 2001–2004 *Mathematics course* at the University of Pisa.

## Teaching

I have done teaching assistance for the following courses at the *La Sapienza* university of Rome.

- 2008 Linear algebra, for the degree course in Mathematics
- 2008 Linear algebra, for the degree course in Statistic Sciences
- 2008 Mathematics and computer science methods for biology, for the degree course in Biological Sciences
- 2008 Mathematics 2, for the degree course in Statistic Sciences
- 2007 Analytic geometry, for the degree course in Mathematics
- 2007 Mathematics and computer science methods for biology, for the degree course in Biological Sciences
- 2006 Calculus 1, for the degree course in Computer Engineering

## Talks

- 2010 *Sextiques EPW doubles et leur anneau de Chow* – University of Lille 1.
- 2010 *Holomorphic symplectic varieties* – Journée du Laboratoire – University of Lille 1.
- 2010 *L'anello di Chow delle sestiche EPW doppie* – in the conference “Giornate di geometria algebrica e argomenti correlati, X” – Gargnano.
- 2010 *The Chow ring of double EPW sextics* – Séminaire de géométrie algébrique – University of Paris 6.
- 2009 *L'anello di Chow delle sestiche EPW doppie* – in the conference “MiniWorkshop di geometria algebrica” – University of Milano.
- 2009 *Holomorphic symplectic varieties* – Oberseminar, Max Planck Institut – Bonn.
- 2008 *L'anello di Chow delle sestiche EPW doppie* – Algebra and geometry seminar – “La Sapienza” University – Roma.
- 2007 *Invarianza dei plurigeneri* - for the work group *Multiplier ideals and analytic methods in algebraic geometry* – “Tor Vergata” University – Roma.
- 2006 *Gruppi di Galois di problemi enumerativi* – for the work group *Algebraic geometry* – “La Sapienza” University – Roma

## Schools and workshops attended

- 2010 *Workshop in deformation theory* at the *La Sapienza* University (Rome).
- 2010 Conference *Complex algebraic geometry* at the Institut Henri Poincaré (Paris).
- 2009 *Summer school in geometry* at the Instituto Superior Técnico (Lisbon).
- 2008 Workshop *Aspects of moduli* at the Mathematical research center E. De Giorgi (Pisa).
- 2008 Spring school *Holomorphic symplectic manifolds and derived categories* in Gargnano del Garda.

- 2007 CIME summer school *Arithmetic geometry* in Cetraro.  
2007 Summer school *Geometry of complex projective varieties and the minimal model program* at the Institut Fourier in Grenoble.  
2006 Clay Mathematical Institute summer school *Arithmetic geometry* in Göttingen.  
2006 Conference *Birational geometry of algebraic varieties* at the University of Pisa.  
2005 Workshop *Diophantine geometry* at the Mathematical research center E. De Giorgi (Pisa).  
2004 *Workshop on deformation theory* at the ICTP in Trieste.