



## Contacts

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## Personal information

Date of birth: July 16, 1975  
Place of birth: Lecco, Italy

Nationality: Italian  
Status: married to Anna Betti; one daughter (Giulia)

## Employments

Current Assistant Professor with tenure ("Ricercatore confermato") at the Department of Mathematics of the Università degli Studi di Milano.

November 2006-August 2007 Post-doc position ("Assegno di Ricerca") at the Department of Mathematics of the Università degli Studi di Milano.

## Education

October 2006 Ph.D. in Mathematics at the Department of Mathematics of the Università degli Studi di Milano.  
Thesis title: *A Twisted Derived Torelli Theorem for K3 surfaces*.  
Advisor: Prof. Bert van Geemen.  
Final defense: March 5, 2007.

July 17, 2002 Master Degree in Mathematics at the Università degli Studi di Milano.  
Thesis title: *Fourier-Mukai partners of K3 surfaces*.  
Advisor: Prof. Bert van Geemen.  
Final mark: summa cum laude.

July 2, 1998 Master Degree in Philosophy at the Università degli Studi di Milano.  
Thesis title: *Semantic and syntactic aspects of fuzzy logic*.  
Advisor: Prof. Corrado Mangione.  
Final mark: summa cum laude.

## Research interests

Algebraic geometry and homological algebra. In particular:

- Derived categories of coherent sheaves and twisted sheaves.
- Fourier-Mukai functors and Fourier-Mukai kernels.
- Stability conditions on derived and triangulated categories.
- Varieties with trivial canonical bundle with particular attention to K3 surfaces and abelian varieties.

## Publications and preprints

1. A. Canonaco, P. Stellari, *Fourier-Mukai functors: a survey*, arXiv:1109.3083.
2. A. Canonaco, D. Orlov, P. Stellari, *Does full imply faithful?*, to appear in: J. Noncommut. Geom., arXiv:1101.5931.
3. A. Canonaco, P. Stellari, *Fourier-Mukai functors in the supported case*, arXiv:1010.0789.
4. A. Canonaco, P. Stellari, *Non-uniqueness of Fourier-Mukai kernels*, to appear in: Math. Z., arXiv:1009.5577.
5. E. Macrì, P. Stellari, *Fano varieties of cubic fourfolds containing a plane*, to appear in: Math. Ann., arXiv:0909.2725.
6. M. Bernardara, E. Macrì, S. Mehrotra, P. Stellari, *A categorical invariant for cubic threefolds*, Adv. Math. **229** (2012), 770-803.
7. D. Huybrechts, E. Macrì, P. Stellari, *Formal deformations and their categorical general fibre*, Comment. Math. Helv. **86** (2011), 41-71.
8. D. Huybrechts, E. Macrì, P. Stellari, *Derived equivalences of K3 surfaces and orientation*, Duke Math. J. **149** (2009), 461-507.
9. E. Macrì, P. Stellari, *Infinitesimal derived Torelli theorem for K3 surfaces*, (Appendix by S. Mehrotra), Int. Math. Res. Not. IMRN **2009**, 3190-3220.
10. E. Macrì, S. Mehrotra, P. Stellari, *Inducing stability conditions*, J. Algebraic Geom. **18** (2009), 605-649.
11. E. Macrì, M. Nieper-Wisskirchen, P. Stellari, *The module structure of Hochschild homology in some examples*, C. R. Acad. Sci. Paris, Ser. I **346** (2008), 863-866.
12. P. Stellari, *A finite group acting on the moduli space of K3 surfaces*, Trans. Amer. Math. Soc. **360** (2008), 6631-6642.
13. E. Macrì, P. Stellari, *Automorphisms and autoequivalences of generic analytic K3 surfaces*, J. Geom. Phys. **58** (2008), 133-164.
14. D. Huybrechts, E. Macrì, P. Stellari, *Stability conditions for generic K3 categories*, Compositio Math. **144** (2008), 134-162.

15. A. Canonaco, P. Stellari, *Twisted Fourier-Mukai functors*, Adv. Math. **212** (2007), 484-503.
16. P. Stellari, *Derived categories and Kummer varieties*, Math. Z. **256** (2007), 425-441.
17. D. Huybrechts, P. Stellari, *Proof of Căldăraru's conjecture. An appendix to a paper by K. Yoshioka*, The 13th MSJ Inter. Research Inst. - Moduli Spaces and Arithmetic Geometry, Adv. Stud. Pure Math. **45** (2006), 31-42.
18. D. Huybrechts, P. Stellari, *Equivalences of twisted K3 surfaces*, Math. Ann. **332** (2005), 901-936.
19. P. Stellari, *Some remarks about the FM-partners of K3 surfaces with Picard numbers 1 and 2*, Geom. Dedicata **108** (2004), 1-13.
20. P. Stellari, *Singular cubic fourfolds containing a plane*, Le Matematiche Vol. LVIII (2003), 277-305.

### Visiting positions

- Mathematisches Institut, Universität Bonn, Germany.  
Periods: July 2008, May 15-July 15 2009, May 2011.
- Professeur Invité at the Institut Henri Poincaré, Paris, France.  
Period: May 2010 (Special Trimester on Complex Algebraic Geometry).
- Department of Mathematics, University of Utah, USA.  
Periods: March 2009, April 2010.
- Hausdorff Center for Mathematics, Bonn, Germany.  
Periods: November 2007, January 2008, February 2008.
- Max-Planck-Institut für Mathematik (Bonn).  
Periods: December 2005-February 2006, April 2007-June 2007.
- Academic Visitor at the Institute for Mathematical Sciences.  
Imperial College, London, UK.  
Period: October 2006-December 2006.
- Institut de Mathématiques, University of Paris VII (Jussieu), France.  
Periods: February 2004-May 2004, November 2005-February 2005.
- Department of Mathematics, University of Edinburgh, UK.  
Period: November 2003-January 2004.
- Department of Mathematics, University of Utrecht, The Netherlands.  
Period: November 2002.
- Department of Artificial Intelligence and Computer Science.  
University of Granada, Spain.  
Period: October 1997-February 1998.

### Fellowships and awards

- Special mention for the *Enriques Prize 2009*.
- Grant of the Mathematische Institut of the Universität Bonn (July 2008, May 15-July 15 2009).

- Stipend of the Max-Planck-Institut für Mathematik (December 2005-February 2006, April 2007-June 2007).
- Fellowship for young researchers travelling abroad of the Istituto Nazionale di Alta Matematica (October 2006-December 2006).
- EDGE pre-doc grant (November 2003-January 2004).
- EAGER pre-doc grant (November 2002).
- SOCRATES/ERASMUS Program (October 1997-February 1998).

### Conferences and seminars organized

- Spring School - *Holomorphic Symplectic Manifolds and Derived Categories*. March 25-30, 2008; Palazzo Feltrinelli - Gargnano del Garda, Italy (in collaboration with Bert van Geemen).
- Workshop of Algebraic Geometry - *Seminario di Natale*. Dipartimento di Matematica "F. Enriques" - Milano, Italy. Editions organized: 2006, 2007, 2008, 2009, 2010 and 2011.

### Selected recent invited talks

- 2011**
- Workshop - "*Genova-Torino-Milano seminar: some topics in Commutative Algebra and Algebraic Geometry*", Università degli Studi di Milano, Italy.
  - Conference - "*Espaces de modules et formes automorphes*", CIRM Luminy, France.
  - Workshop - "*Algebraic surfaces and related topics*", University of Poitiers, France.
  - Conference - "*XIX Congresso dell'Unione Matematica Italiana*", Bologna, Italy.
  - Conference - "*Derived categories and algebraic geometry*", Steklov Institute RAS, Moscow, Russia.
  - Conference - "*The legacy of deformation quantization*", Ascona, ETH Zurich, Switzerland.
  - Mathematische Institut, Universität Bonn, Germany.
  - Workshop - "*Classical Algebraic Geometry*", Istituto Nazionale di Alta Matematica, Roma Italy.
  - Conference - "*Derived Categories 2011 Tokyo*", University of Tokyo, Japan.
- 2010**
- Dipartimento di Matematica, Università degli Studi di Pavia, Italy.
  - Dipartimento di Matematica, Politecnico di Torino, Italy.
  - Conference - "*Derived Categories, Holomorphic Symplectic Varieties, Birational Geometry, Deformation Theory*", Institut Henri Poincaré, Paris.
  - Mini-course - "*K3 surfaces and derived categories*" (3 lectures), Institut Henri Poincaré, Paris, France.
  - Departmental Colloquium, Department of Mathematics, University of Utah, USA.

- 2009** Dipartimento di Matematica, Università di Roma "La Sapienza", Italy.  
 Summer School - "*BPS state counting, stability structures and derived algebraic geometry*", Hamburg, Germany.  
 Algebraic Geometry Seminar, Universität Bonn/Max-Planck-Institute, Germany.  
 Department of Mathematics, University of Utah, USA.  
 Dipartimento di Matematica, Università degli Studi della Calabria, Italy.
- 2008** Mathematische Institut, Universität Bonn, Germany.  
 Laboratoire J.-A. Dieudonné, Université de Nice, France.  
 Workshop - "*Bundles, Gerbes and Derived Categories in String Theory*", Universidad de Salamanca, Spain.  
 Conference - "*First CTS Conference on Bundles*" (Two talks.), Tata Institute of Fundamental Research, Mumbai, India.  
 Dipartimento di Matematica Pura e Applicata, Università degli Studi di Padova, Italy.
- 2007** Department of Mathematics, University of Illinois at Chicago, USA.  
 Department of Mathematics, Duke University, USA.  
 Department of Mathematics, University of Pennsylvania, USA.  
 Department of Mathematics and Statistics, University of Massachusetts at Amherst, USA.  
 Max-Planck-Institut für Mathematik (Bonn).  
 Department of Mathematics, University of Salamanca, Spain. (Two talks.)  
 Department of Mathematics, University of Nantes, France.
- 2006** Department of Mathematics, University of Liverpool, UK.  
 Satellite Conference "*Algebraic Geometry*" of the International Congress of Mathematics - Segovia, Spain.  
 Conference - "*Giornate di Geometria Algebrica e Argomenti Correlati VIII*", Trieste, Italy.  
 Dipartimento di Matematica, Università degli Studi di Torino, Italy. (Two talks.)  
 Max-Planck-Institut für Mathematik (Bonn).

## Teaching

- Topologia Algebrica (Algebraic Topology) – Lectures (in English).  
Academic year: 2011-2012 (first semester).
- Varietà Complesse (Complex Varieties) – Exercise section (in English).  
Academic years: 2010-2011, 2011-2012 (first semester).

- Geometria 1 (Linear Algebra, part 1) – Exercise section.  
Academic years: 2008-2009, 2009-2010 (first semester).
- Geometria 2 (Linear Algebra, part 2) – Exercise section.  
Academic year: 2007-2008 (second semester).
- Calculus for Natural Sciences – Exercise section.  
Academic years: 2010-2011, 2011-2012 (first semester).
- Calculus for Biotechnology – Exercise section.  
Academic years: 2008-2009, 2009-2010 (first semester).
- Mathematical methods for Computer Science – Complementary lectures.  
Academic year: 2007-2008 (first semester).

## Other professional activities

### *Activity as a referee or reviewer:*

- Referee for: Advances in Mathematics, C. R. Math. Acad. Sci. Paris, Communications in Mathematical Physics, Compositio Mathematica, Duke Mathematical Journal, Journal of the European Mathematical Society, Mathematische Annalen, Nuovo Cimento, Publications of the Research Institute for Mathematical Sciences, Quartely Journal of Mathematics and Transactions of the American Mathematical Society.
- External reviewer for the National Security Agency and the Marie Curie Grant.
- Reviewer for Mathematical Reviews (American Mathematical Society).
- Member of two Ph.D. juries (Université de Nice - France in 2008 and Università degli Studi di Roma "Tor Vergata" - Italy in 2011) and oral exam committee member (University of Utah, USA, 2010).

### *Students and theses:*

- 1 Ph.D. Student (from November 2011);
- 2 Master Degree Students (2011);
- 9 Bachelor Degree Students (2010 and 2012).

## Languages

Italian: mother language.

English: fluent in both writing and speaking.

Spanish: fluent in both writing and speaking.

French: basic.