

Andrea FANELLI

PERSONAL DETAILS

PLACE AND DATE OF BIRTH: Rome, Italy | 08 October 1987
NATIONALITY: Italian
WORK ADDRESS: Institut de Mathématiques de Bordeaux
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WORK EXPERIENCE

<i>Current</i> SEP 2019	Maître de Conférences (lecturer) <i>Université de Bordeaux, France</i> Équipe de Théorie des Nombres
SEP 2018 AUG 2019	FMJH postdoc <i>Université de Versailles Saint-Quentin-en-Yvelines, France</i> Funded by Fondation Mathématiques Jacques Hadamard Supervisor: Prof. Nicolas PERRIN
SEP 2016- AUG 2018	Wiss. Mitarbeiter (post-doc) <i>Heinrich-Heine-Universität Düsseldorf, Germany</i> Funded by DFG Project: “Gromov-Witten Theorie, Geometrie und Darstellungen” (PE 2165/1-2) Supervisors: Prof. Benjamin KLOPSCH, Prof. Nicolas PERRIN (UVSQ)
SEP 2015- AUG 2016	Wiss. Mitarbeiter (post-doc) <i>Universität Basel, Switzerland</i> Funded by SNF Project: “Algebraic subgroups of the Cremona groups” (200021_159921) Supervisor: Prof. Jérémy BLANC

EDUCATION

OCT 2011- AUG 2015	PhD in MATHEMATICS <i>Imperial College London, United Kingdom</i> Subject: Algebraic Geometry Thesis: “Two structural aspects in birational geometry: geography of Mori fibre spaces and Matsusaka’s Theorem for surfaces in positive characteristic” Supervisor: Dr Paolo CASCINI
OCT 2009- JUL 2011	Master in MATHEMATICS <i>Sapienza Università di Roma, Italy</i> 110/110 summa cum laude Thesis: “Multiplier Ideal Sheaves: Nadel’s Theorem and Applications” Supervisors: Prof Enrico ARBARELLO, Dr Simone DIVERIO (UPMC)
OCT 2006- JUL 2009	Bachelor in MATHEMATICS <i>Sapienza Università di Roma, Italy</i> 110/110 summa cum laude Thesis: “Riemann Surfaces and Uniformization Theorem” Supervisor: Prof Enrico ARBARELLO

RESEARCH

Algebraic geometry: birational classification, minimal model program, Fano varieties, surfaces in characteristic p , maximal algebraic subgroups of the Cremona group, rational simple connectedness.

Published papers:

- (with S. Schröer) *Del Pezzo surfaces and Mori fibre spaces in positive characteristic*, to appear on Transaction of the AMS, arXiv:1802.08436 (2019);
- (with C. Casagrande and G. Codogni) *The blow-up of \mathbb{P}^4 at 8 points and its Fano model, via vector bundles on a degree 1 del Pezzo surface*, Revista Matemática Complutense (2019);
- (with G. Codogni, R. Svaldi et L. Tasin) *A note on the fibres of Mori fibre spaces*, European Journal of Mathematics (2018);
- (with G. Codogni, R. Svaldi et L. Tasin) *Fano varieties in Mori fibre spaces*, Int Math Res Notices (2016);
- (with G. Di Cerbo) *Effective Matsusaka's Theorem for surfaces in characteristic p* , Algebra and Number Theory (2015).

Submitted papers:

- (with S. Schröer) *The maximal unipotent quotient, exotic torsion in Fano threefolds, and exceptional Enriques surfaces*, arXiv:1905.04566 (2019);
- (with L. Gruson and N. Perrin) *Rational curves on V_5 and rational simple connectedness*, arXiv:1901.06930 (2019);
- (with J. Blanc et R. Terpereau) *Automorphisms of \mathbb{P}^1 -bundles over rational surfaces*, arXiv:1707.01462 (2017).

In preparation:

- (with J. Blanc et R. Terpereau) *Maximal connected algebraic subgroups of the Cremona group in three variables*.

REFEREES

PROF JÉRÉMY BLANC	jeremy.blanc@unibas.ch
PROF PAOLO CASCINI	p.cascini@imperial.ac.uk
PROF LAURENT GRUSON	laurent.gruson@uvsq.fr
PROF NICOLAS PERRIN	nicolas.perrin@uvsq.fr
PROF STEFAN SCHRÖER	schroer@math.uni-duesseldorf.de

CONFERENCES, ORGANISED EVENTS AND COLLECTIVE DUTIES

- 19-20/12/2019 *Geometry in Pairs*, Roma Tre, Italy (with B. Bolognese and E. Di Nezza)
 - 09-10/09/2019 *Rencontre PEPS*, Poitiers, France (with E. Floris)
 - 22-26/07/2019 *Del Pezzo surfaces and Fano varieties*, HHU, Düsseldorf, Germany (with S. Schröer)
 - 20-21/12/2018 *Aeneas Conference*, Roma Tre, Rome, Italy (with G. Codogni)
 - OCT 2016-JULY 2018 *Research Seminar*, HHU, Düsseldorf, Germany (with P. Arndt, D. Bradley-Williams, A. Garrido and K. Langlois)
 - 18-19/12/2014 *Algebraic Geometry and Representation Theory in Rome*, Roma Tre, Rome, Italy (with G. Cerulli Irelli and G. Codogni)
 - 3-4/04/2014 *Traumatic Workshop: Birational Geometry and Fano Varieties*, Imperial College London, United Kingdom (with M. Akhtar, P. Cascini, A. Corti, D. Martinelli and A. Petracci)
 - OCT 2012-MAY 2013 *Junior Geometry Seminar*, Imperial College London, United Kingdom
 - 2-5/04/2013 *Characteristic p methods in Algebraic Geometry*, funded by LMS, Imperial College London, United Kingdom (with P. Cascini and J. Martinez Garcia)
- Reviewer for international journals;
 - Reviewer for *Mathematical Reviews* and *Zentralblatt MATH*.

SCHOLARSHIPS, GRANTS AND AWARDS

- FEB 2019 - Member of the PEPS project (Jeunes chercheuses et jeunes chercheurs)
"Programme de Sarkisov et action de groupes" (Project leader : Enrica Floris, Poitiers)
- APR-JUN 2015 IMPA's fellowship (Rio de Janeiro, Brasil) for the special trimester in Algebraic Geometry
- MAR 2014 First prize (with Diletta Martinelli), Mathematics Department Poster Competition
(Imperial College London, United Kingdom)
- JUN 2013 Faculty of Natural Sciences Award for Excellence in Teaching (Imperial College London,
United Kingdom)
- OCT 2011- MAR 2015 Roth Scholarship (PhD scholarship, Imperial College London, United Kingdom)
- SEP 2010- FEB 2011 Erasmus scholarship (ranked first in the Faculty of Mathematical, Physical and Natural
Sciences, Sapienza Università di Roma) at UPMC, Paris 6
- Nov 2007- JUN 2009 Percorso di Eccellenza (top 15 students)

TEACHING EXPERIENCE

- SEP 2019 - Topologie, Bases de Mathématiques pour le Sciences, Course and exercise classes (Bordeaux)
- SEP-DEC 2018 Mathématiques Générales, Course and exercise classes (UVSQ, Versailles)
- MAR-JUN 2016 Kommutative Algebra, Exercise classes (Universität Basel, Switzerland)
- SEP 2015- JAN 2016 Algebraic geometry via schemes, Exercise classes (Universität Basel, Switzerland)
- JAN-MAY 2014 Complex Analysis, Exercise classes (Imperial College London, United Kingdom)
- JAN-MAY 2013 Algebra 1 et Analysis 1, Exercise classes (Imperial College London, United Kingdom)
- OCT-DEC 2012 Foundation of Analysis et Linear Algebra, Exercise classes
(Imperial College London, United Kingdom)
- OCT-DEC 2011 Foundation of Analysis et Algebra 2, Exercise classes
(Imperial College London, United Kingdom)
- OCT-DEC 2009 Project manager of "Playing in a dust-free atmosphere", a course in advanced mathematics
for last-year students at Liceo "A. Avogadro" (Rome, Italy)

LANGUAGES

- ITALIAN: Mother tongue
ENGLISH: Fluent
FRENCH: Fluent
GERMAN: Basic knowledge (B1)

SELECTED TALKS AND ACADEMIC VISITS

- 23–27/09/2019 *Rencontre Del Duca 2019*, Toulouse, France
- 20/09/2019 *Séminaire de Théorie de Nombres*, Bordeaux, France
- 05/06/2019 *Journée du LMV*, Versailles, France
- 03–05/04/2019 *Young Perspectives in Algebraic Geometry II*, Bayreuth, Germany
- 21/03/2019 *Seminar of Geometry*, Roma Tre, Italy
- 14/03/2019 *Séminaire de Géométrie Complexe*, Toulouse, France
- 21/02/2019 *Séminaire d'algèbre, topologie et géométrie*, Nice, France
- 21/02/2019 *Séminaire AGATA*, Montpellier, France
- 17–21/12/2018 *GAGC2018*, CIRM, France
- 27/11/2018 *Séminaire Géométrie Algébrique*, Lille, France
- 06–07/09/2018 *Rencontre La Rochelle-Bordeaux-Poitiers*, Poitiers, France (series of talks)
- 26/06/2018 *Colloquio matematico*, Bari, Italy (colloquium)
- 22/05/2018 *Seminar of Algebraic Geometry*, EPFL, Lausanne, Switzerland (talk)
- 11/04/2018 *Seminario di Geometria Algebrica e Teoria dei Numeri*, Padua, Italy (talk)
- 15/03/2018 *EDGE Seminar*, Edinburgh, UK (talk)
- 08/03/2018 *Séminaire Groupes, Algèbre et Géométrie*, Poitiers, France (talk)
- 12/02/2018 *Séminaire de géométrie complexe*, Nancy, France (talk)
- 25/01/2018 *Oberseminar Algebraische Geometrie*, Saarbrücken, Germany (talk)
- 10/01/2018 *7th Swiss-French Workshop in Algebraic Geometry*, Charmey, Switzerland (talk)
- 05/01/2018 *IAG Oberseminar*, Hannover, Germany (talk)
- 11–15/12/2017 *GAGC2017*, CIRM, France (short talk)
- 20–24/11/2017 *Academic visit at University of Versailles*, France (invited by Nicolas Perrin)
- 09/11/2017 *Séminaire de géométrie algébrique*, ENS, Paris, France (talk)
- 07/11/2017 *Algebra and Geometry Seminar*, Basel, Switzerland (talk)
- 16/03/2017 *Cambridge-Tokyo workshop*, Cambridge, United Kingdom (talk)
- 15/12/2016 *Seminar of Algebraic Geometry and Number Theory*, EPFL, Lausanne, Switzerland
- 13–17/03/2017 *Academic visit at Imperial College London*, United Kingdom (invited by Eleonora Di Nezza)
- 28/11–2/12/2016 *Academic visit at University of Versailles*, France (invited by Nicolas Perrin)
- SEP–OCT 2016 *Academic visit at FRIAS*, Fribourg, Germany (invited by Stefan Kebekus)
- 13–17/06/2016 *GAeL XXIV*, Nesin Mathematics Village, Turkey (talk)
- 25–28/05/2016 *Giornate di Geometria Algebrica ed Argomenti Correlati XIII*, Catania, Italy (talk)
- 8–10/02/2016 *An introductory workshop on the Minimal Model Program*, Hannover, Germany (talk)
- 13–24/07/2015 *2015 Summer Research Institute on Algebraic Geometry*, Salt Lake City, USA (poster)

- 16/03/2015 *Warwick Algebraic Geometry Seminar*, Warwick, United Kingdom (talk)
- 24-28/11/2014 *GAGC2014*, CIRM, France (short talk)
- 25/03/2014 *Academic visit* at Columbia University, USA (invited by Gabriele Di Cerbo)
- 23-28/07/2012 *Dacha Conference*, Russia (talk)

Bordeaux, 13/09/2019