

Mattia Galeotti

Curriculum Vitæ

Dipartimento di Matematica
Università di Bologna
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Personal profile

Born April 27, 1989
Birthplace Barga (LU) – ITALY
Current position Post-doc at Università di Bologna

Education

2018-2019 **Post-Doc in mathematics**, *Università degli Studi di Trento, Italy.*
2014-2017 **PhD student in mathematics**, *Université Pierre et Marie Curie, Paris, Institut de Mathématiques de Jussieu.*
9/2013 **Master Degree in mathematics**, *Université Pierre et Marie Curie, Paris, Mention “Très Bien” (Very Good).*
Supervisor: Alessandro Chiodo
2011-2014 **Student in mathematics**, *Ecole Normale Supérieure, Paris.*
9/2011 **Admitted at the International Selection**, *Ecole Normale Supérieure, Paris, class of Sciences.*
7/2011 **Laurea Triennale - Bachelor equivalent**, *Università di Pisa, 110/110 cum laude.*
Supervisor: Angelo Vistoli
2008-2011 **Student in mathematics**, *Scuola Normale Superiore, Pisa.*
2008-2011 **Student in mathematics**, *Università di Pisa.*
9/2008 **Admitted at the SNS**, *Scuola Normale Superiore, Pisa, fourth in the class of Sciences.*

PhD Thesis, (Institut de Mathématiques de Jussieu- Paris Rive Gauche)

Title *Moduli of curves with principal and spin bundles: singularities and global geometry.*
Supervisor Alessandro Chiodo.
Defense November 30, 2017.

Papers

Birational geometry of moduli of curves with an S_3 -cover, arXiv: 1905.03487, under review.
Moduli of G -covers of curves: geometry and singularities, arXiv: 1905.02889, under review.
Moduli spaces of abstract and embedded Kummer varieties, joint work with Sara Perna, arXiv: 1806.00267, under review.

Discrimination and algorithms. Encounters and confrontations between different definitions of fairness (in italian), Published on The Lab's Quarterly, 2018, XX, 4.

Singularities of moduli of curves with a universal root, Published on Documenta Mathematica, n.22 (2017).

Students

2019 **Valeria Tomasi**, *student at Università degli Studenti di Trento*, master thesis "From Geometry to the theory of categories: the concept of topos as generalized space" (in italian), I was co-supervisor, supervisor: Claudio Fontanari.

Other Works

9/2013 **Extension of pluri-canonical forms on the singularities of moduli of curves**, *Master's research project*, under the direction of Alessandro Chiodo, Université Pierre et Marie Curie, Paris.

5/2012 **Hyperbolicity and the Yau-Schwarz lemma**, *Magister's project*, in couple with Kevin Boucher, under the direction of Henri Guenancia, Ecole Normale Supérieure, Paris.

7/2011 **Representations of the General Linear group**, *Bachelor's project*, under the direction of Angelo Vistoli, Università di Pisa.

Attended Conferences and Seminars

15-19/7/2019 **ACT 2019 - Applied Category Theory Conference**, *Oxford University*, Oxford.

7-11/1/2019 **A Journey Through Projective and Birational Geometry**, *Università degli Studi di Trento*, Trento.

20-21/12/2018 **Aeneas Conference: Migrating Algebraic Geometry**, *Università di Roma Tre*, Roma.

11/2018-05/2019 **Seminar "Dynamiques post-structurelles : devenir hétérogène, intensif, singulier"**, *EHESS*, Paris.

11-15/7/2018 **Topological Data Analysis and Persistent Homology**, *CIRM - Università di Trento - Università di Milano*, Levico Terme.

27-30/3/2017 **Cycles and Moduli**, *ETH*, Zürich.

23-27/1/2017 **Annual meeting of the research group GAGC-Algebraic Geometry and Complex Geometry**, *CIRM*, Marseille.

11-13/7/2017 **Conference on Complex networks: from theory to interdisciplinary applications**, Marseille.

22-24/3/2016 **CIMPA-CIMAT-ICTP School on Moduli of Curves**, *Cimat*, Guanajuato.

22/6-10/7/2015 **Pragmatic 2015 - Moduli of Curves and Line Bundles**, *Università di Catania*, Catania.

1-5/6/2015 **GAeL XXIII**, *KU*, Leuven.

25-31/5/2015 **Intensive research period: Algebraic Varieties and their Moduli**, *Centro Ennio de Giorgi*, Pisa.

4/2015 **Thematic Program on Algebraic Geometry**, *IMPA*, Rio de Janeiro.

28-30/4/2014 **Mirror Symmetry and Spin Curves**, *Palazzone di Cortona*, Italy.

Talks and Posters

- 20/09/2019 **School and Workshop on Diophantine Geometry and Special Varieties**, *Dipartimento di Matematica dell'Università di Trento*, presented talk: “The Kodaira dimension of moduli of curves with spin and principal bundles”.
- 24/05/2019 **Mathematics and Informatics Seminar**, *Università degli Studi di Ferrara*, presented talk: “The Kodaira dimension of moduli of curves with spin and principal bundles”.
- 26/03/2019 **Geometry Seminar**, *Università degli Studi di Trento*, presented talk: “The Kodaira dimension of moduli of curves with spin and principal bundles”.
- 19/02/2019 **Algebra and Geometry Seminar**, *Laboratoire de Mathématiques de Versailles*, presented talk: “Singularities and global geometry of moduli of curves”.
- 26/04/2018 **Pure Mathematics Seminar**, *University of Liverpool*, presented talk: “Singularities and global geometry of moduli of curves with spin and principal bundles”.
- 13/03/2018 **Complex Geometry Seminar**, *Institut de Mathématiques de Marseille*, presented talk: “Moduli of curves with principal and spin bundles : the singular locus via graph theory”.
- 6/03/2018 **Algebraic Geometry Seminar**, *IMAG Montpellier*, presented talk: “Moduli of curves with principal and spin bundles: singularities and global geometry”.
- 26/10/2017 **Geometry Seminar**, *Università di Roma 3*, presented talk: “Moduli of curves with principal and spin bundles: singularities and global geometry”.
- 11/10/2017 **Geometry Seminar**, *Università di Pisa*, presented talk: “Moduli of curves with principal and spin bundles: singularities and global geometry”.
- 24/5/2017 **Seminar of young researchers in geometry**, *Université de Rennes 1*, presented talk: “Curves with a root bundle and their ghost automorphisms”.
- 27-30/3/2017 **Cycles and Moduli**, *ETH, Zürich*, presented poster: “Moduli of curves with a root via graph theory”.
- 28/1/2016 **PhD students' seminar**, *IMJ - Paris 6*, presented talk: “Deligne Mumford border of the moduli space of curves”.
- 1-5/6/2015 **GAeL XXIII**, *KU, Leuven*, presented poster: “Singularities of moduli of curves via graphs”.
- 22/4/2015 **UFF Algebraic Geometry Seminar**, *UFF, Nitéroï*, presented talk: “On the singularities of $\overline{\mathcal{R}}_{g,\ell}^k$ ”.
- 15/4/2015 **IMPA Algebraic Geometry Seminar**, *IMPA, Rio de Janeiro*, presented talk: “On the singularities of $\overline{\mathcal{R}}_{g,\ell}^k$ ”.
- 26/2/2015 **Work group “Moduli Spaces”**, *IMJ - Paris 6*, presented talk: “Curves r -spin, natural covering morphisms, classification of singularities”.

Teaching

- 9-12/2016 **Teaching assistant for “Eléments de Mathématiques”**, *L1 at UPMC, Paris*.
- 9-12/2015 **Teaching assistant for “Probabilités Élémentaires”**, *L3 at UPMC, Paris*.
- 9-12/2015 **Teaching assistant for “Eléments de Mathématiques”**, *L1 at UPMC, Paris*.
- 1-4/2015 **Teaching assistant for “Suites et Intégrales, Algèbre Linéaire”**, *L1 at UPMC, Paris*.
- 9-11/2014 **Teaching assistant for “Eléments de Mathématiques”**, *L1 at UPMC, Paris*.

Other

- 3/2017 **I attended the course “Introduction to statistical machine learning for physicists”**, organized by the “*École Doctorale Physique en Île-de-France*”, *IHP, Paris*.

- 7/2008 **Participation at the International Mathematical Olympiads, Madrid, Spain,**
bronze medal.
- 7/2007 **Participation at the International Mathematical Olympiads, Hanoi, Vietnam,**
bronze medal.