 Curriculum vitae

PERSONAL INFORMATION Roberto Fringuelli

RESEARCH INTERESTS

Moduli spaces of algebraic curves
Moduli spaces of principal bundles and their degenerations
Moduli spaces of Higgs bundles
Moduli spaces of abelian varieties. Rational points on abelian varieties
Picard groups and Brauer groups of algebraic stacks
Compactifications of reductive groups

EMPLOYEMENT

Sep 2022 - Aug 2024 Postdoctoral Researcher
University of Roma "La Sapienza", Italy

June 2020 - May 2022 Postdoctoral Researcher
University of Roma "Tor Vergata", Italy
Mentor: Prof. Antonio Rapagnetta

Sep 2019 - May 2020 Postdoctoral Researcher
University of Helsinki, Finland
Mentor: Prof. Kari Vilonen

Feb 2019 - July 2019 Software Developer

Sep 2018 - Dec 2018 Guest Researcher
Max Planck Institute for Mathematics, Bonn (Germany)

Sep 2016 - Aug 2018 Postdoctoral Researcher
University of Edinburgh
Mentor: Prof. Johan Martens

ACADEMIC VISITS

Jan 2018 - Feb 2018   IMPA - Instituto de Matematica Pura e Aplicada, Brazil
Jan 2020 - Feb 2020   IMPA - Instituto de Matematica Pura e Aplicada, Brazil

EDUCATION

Jan 2013 - June 2016 Ph.D
University of Roma "Roma Tre"
Advisor: Prof. Filippo Viviani
Thesis: "*The Picard group of the universal moduli space of vector bundles over the moduli space of stable curves*"

Jan 2009 - Oct 2011 Master Degree
University of Roma "La Sapienza"
Advisor: Prof. Andrea Maffei
Thesis: "*Affine Grassmannians and moduli spaces of vector bundles on Riemann surfaces*"

Sep 2005 - Dec 2008	**Bachelor Degree**
	University of Bologna "Alma Mater Studiorum"

PREPRINTS/PUBLICATIONS

7   *Automorphisms of moduli spaces of principal bundles over a smooth curve*, Preprint arXiv:2112.08750 (2021)

6   *The Picard group of the universal moduli stack of principal bundles on pointed smooth curves II* (joint with Filippo Viviani), Preprint arXiv:2009.06274 (2020). To Appear in Annali Sc. Norm. Super. Pisa

5   *On the Picard group scheme of the moduli stack of stable pointed curves* (joint with Filippo Viviani), Preprint arXiv:2005.06920 (2020)

4   *The Picard group of the universal moduli stack of principal bundles on pointed smooth curves* (joint with Filippo Viviani), Preprint arXiv:2002.07494 (2020). To appear in Journal of Topology

3   *The Brauer Group of the Universal Moduli Space of Vector Bundles Over Smooth Curves* (joint with Roberto Pirisi), International Mathematics Research Notices, Volume 2021, Issue 18, September 2021, Pages 13609–13644, https://doi.org/10.1093/imrn/rnz300

2   *The Picard Group of the Universal Abelian Variety and the Franchetta Conjecture for Abelian Varieties* (joint with Roberto Pirisi), Michigan Math. J. **68** (2019), no. 3, 651–671. MR3990175

1   *The Picard group of the universal moduli space of vector bundles on stable curves*, Adv. Math. **336** (2018), 477–557. MR3846159

INVITED TALKS

The automorphism group of the moduli space of principal bundles on a curve, University of Roma Tor Vergata, Roma (Italy), 22th February 2021

The automorphism group of the moduli space of principal bundles on a curve, University of Roma Tre, Roma (Italy), 11th November 2021

The Picard group of the universal moduli stack of principal bundles on smooth curves, University of Tor Vergata, Roma (Italy), 11th June 2021

The Picard group of the universal moduli stack of principal bundles on smooth curves, Escola Transguanabara de Geometria Algebrica, 4th - 7th February 2020 UFF (Niteroi), 10th - 13th February IMPA (Rio de Janeiro), Brazil

The Picard group of the universal moduli stack of principal bundles on smooth curves, University of Helsinki, Helsinki (Finland) 13th of November 2019

The Picard group of the universal moduli stack of principal bundles on smooth curves, Oberseminar, Max Planck Institute for Mathematics, Bonn (Germany), 6th December 2018

Universal compactification of bundles on curves, Aeneas Conference: Migrating Algebraic Geometry. Christmas Conference, Roma Tre, 20th and 21th of December 2018

The Brauer group of the universal moduli stack of vector bundles on smooth curves University of Roma 3, Rome (Italy), 27th October 2018

The Picard group of the universal moduli stack of vector bundles on stable curves, Universidade Estadual de Campinas, Campinas (Brasil), 2nd February 2018

The Picard group of the universal moduli stack of vector bundles on stable curves, Instituto Nacional de Matematica Pura e Aplicada (IMPA), Rio de Janeiro (Brasil) 7th February 2018

The Picard group of the universal moduli stack of vector bundles on stable curves, Glen, Algebraic Geometry seminar, University of Liverpool, 3rd Febraury 2017

The Picard group of the universal moduli stack of vector bundles on stable curves, 2CinC: Cow and Calf in Cardiff, Cardiff University, 23rd - 24th February 2017

The Picard group of the universal moduli stack of vector bundles on stable curves, Giornate di Geometria Algebrica ed Argomenti Correlati XIII, University of Catania, May 2016

The Picard group of the universal moduli stack of vector bundles on stable curves, EDGE Seminar, University of Edinburgh, 20th October 2016

TEACHING

2020/2021 Sem 2 — ### Tutor for the Geometria course
Dipartimento di Ingegneria Civile e Ambientale, Elettronica e Internet
University of Roma "Tor Vergata"

2020/2021 Sem 2 — ### Tutor for the Geometria course
Dipartimento di Ingegneria Edile Architettura
University of Roma "Tor Vergata"

2019/2020 Sem 2 — ### Lecturer of A basic course in Algebraic Geometry
Department of Mathematics and Statistics
University of Helsinki

SERVICE

20-21 Dec 2021 — Algebraic Geometry conference - Christmas in Rome 2021, Co-organizer with B. Bolognese, E. Fatighenti, A. Turchet

Sep 2021 - Aug 2022 — Geometry Seminar at University of Roma "Tor Vergata", Co-organizer with G. Codogni and C. Onorati

Sep 2017 - Aug 2018 — EDGE seminar (geometry/topology seminars at University of Edinburgh), Co-organizer with D. Martinelli

Sep 2017 - Aug 2018 — Post-Doc officer at University of Edinburgh (joint with D. Martinelli)

Sep 2017 - Aug 2018 — Member of the Good Practice committee (University of Edinburgh)

LANGUAGE SKILLS

Italian — Mother tongue
English — Good
French — Basic

Autorizzo il trattamento dei dati personali contenuti nel presente curriculum vitae ai sensi del D.Lgs. 196/2003 "Codice in materia di protezione dei dati personali".
Autorizzo la pubblicazione del presente curriculum vitae sul portale di Ateneo "Amministrazione trasparente" in ottemperanza al D.Lgs. 33/2013 e al D.Lgs. 97/2016.

Data: 07/09/2022   **Firma:** Roberto Fringuelli