Davide Gori

Curriculum Vitae

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Research interests

Algebraic geometry, in particular: moduli spaces of curves, algebraic stacks and good moduli spaces, birational geometry of $\overline{M}_{g,n}$, algebraic groups.

Education

November 2021–	**Ph.D. in Mathematics**, *Sapienza University of Rome*, Rome, Italy Supervisor: Prof. Filippo Viviani.
2016 – 2022	**"Diploma" in Mathematics**, *Scuola Normale Superiore*, Pisa, Italy
2019 – 2021	**Master's Degree (Laurea Magistrale) in Mathematics**, *University of Pisa*, Italy Grade: 110/110 cum laude. Thesis title: The Moduli Space of Smooth Curves. Thesis supervisor: Prof. Mattia Talpo.
2016 – 2019	**Bachelor's Degree (Laurea Triennale) in Mathematics**, *University of Pisa*, Italy Grade: 110/110 cum laude. Thesis title: De Rham Cohomology of Compact Lie Groups. Thesis supervisor: Prof. Andrea Maffei.
2011/12–2015/16	**High School Student**, *Scientific Lyceum "Guglielmo Marconi"*, Carrara (MS), Italy, High School Diploma, July 2016

Visiting Positions

April 2023 – July 2023	**Ph.D. visiting student**, *invited by A. Chiodo*, IMJ-PRG, Paris
25 January 2024 – 03 February 2024	**Ph.D. visiting student**, *invited by Jochen Heinloth and Ludvig Modin to work on the project: "Good moduli spaces of curves with A_k singularities"*, University of Duisburg-Essen, Essen, Germany

Talks

31 May 2024	**Moduli spaces in algebraic geometry, with an emphasis on moduli of curves**, *Rome, Italy* DocTorV Seminars, Tor Vergata University of Rome.
28 May 2024	**Classical and tropical moduli spaces of curves, combinatorial aspects**, *Rome, Italy* YAMS Seminars, Sapienza University of Rome.

8 April 2022	**Moduli spaces and where to find them: an algebraic point of view**, *Rome, Italy* MATH Talks, Sapienza University of Rome. Seminar for master students.
May 2020	**Seminar**, *Recent results regarding Bertini's theorem*, Pisa Seminar based on article: The exceptional locus in the Bertini irreducibility theorem for a morphism (Bjorn Poonen, Kaloyan Slavov arXiv:2001.08672). Supervisor: Prof. Tamás Szamuely.

Experience

Student exchange programs

September 2019 - January 2020	**Erasmus+**, *Paris-Sud University (Paris XI), now replaced by the University of Paris-Saclay*, France 40,5 ECTS (Master M2: Arithmétique, Analyse, Géométrie).

Events Organized

March - May 2022	**Co-organizer of MATH talks**, Rome, Italy Cycle of 12 seminars for master students at the Sapienza University of Rome helded by PhD students. Webpage: `https://www.mat.uniroma1.it/ricerca/seminari/math`.

Part-time collaborations

July 2020	**Collaboration with Scuola Normale Superiore**, Pisa, Italy Study of cybersecurity attacks, and related defense countermeasures (paid collaboration, 95 hours)
November 2018	**Collaboration with Scuola Normale Superiore**, Pisa, Italy Creation of a Telegram bot for student use (paid collaboration, 50 hours)

Teaching experience

November 2018	**Teacher at the local stage in Osimo**, Osimo, Italy, two days stage organized by UMI, aimed to train participants for the local and national mathematics competitions
2022	**Tutor for the course Geometry 1 at Sapienza University of Rome**, Rome, Italy, One semester tutoring
2024	**Tutor for the course Algebra 1 at Sapienza University of Rome**, Rome, Italy, One semester tutoring

Selected Awards

June 2024	**Ermenegildo Zegna Founder's Scholarship**, Awarded for a visiting period at the University of Washington, hosted by Professor Jarod Alper.
2012 – 2016	**Italian Mathematical Olympiad (ITAMO)** Detailed partecipations: ○ 2012: Bronze medal; ○ 2013: Silver medal; ○ 2014: Gold medal; ○ 2015: Silver medal; ○ 2016: Gold medal (third place).
2014	**Italian Mathematical Olympiad (ITAMO), team competition** Second place.

2016   **Mediterranean Youth Mathematical Championship**, Rome, Italy
Third place.

2015   **Championnat International des Jeux Mathématiques et Logiques (CIJML)**,
Paris, France.

2015   **Balkan Mathematical Olympiad (BMO)**, Athens, Greece
Bronze medal.

Attended Conferences and Schools

16/09/24   **School on Deformation Theory IV**, *Sapienza University of Rome*, Rome, Italy,
20/09/24   `https://www.donatellaiacono.it/sdt/sdt.html`

09/09/24   **GAP: Moduli spaces and higher structures**, *Sapienza University of*
13/09/24   *Rome*, Rome, Italy, `https://www1.mat.uniroma1.it/~fiorenza/GAP-Rome/`
         `GAP-XIX-2024-Rome.html`

01/09/24   **An Invitation to Derived Geometry**, *University of Padova*, Padova, Italy, `https:`
07/09/24   `//www.federicobambozzi.eu/derived_geometry_conference/index.html`

21/07/24   **Moduli Theory in Algebraic Geometry**, *University of Essex*, Essex, UK, `https:`
27/07/24   `//jesusmartinezgarcia.net/aggitate/`

08/01/24   **Equivariant methods in geometry**, *Isaac Newton Institute*, Cambridge, UK,
12/01/24   `https://www.newton.ac.uk/event/emgw01/`

25/09/23   **Singularities at CIRM**, *CIRM*, Luminy, France, `https://conferences.`
29/09/23   `cirm-math.fr/2839.html`

28/08/23   **VBAC - Recent applications to the geometry of moduli spaces**, *ESAGA*, Essen,
01/09/23   Germany, `https://vbac2023.esaga.net/`

11/07/23   **AGNES, Intersection Theory on Moduli Spaces**, *Brown University*,
14/07/23   Providence, Rhode Island, `https://sites.google.com/site/agneshomepage/`
         `brown-2023-agnes-summer-school`

27/02/23   **Developments in moduli problems**, *American Institute of Mathematics*, San Jose,
03/03/23   California, `https://aimath.org/pastworkshops/moduliproblems.html`

21/11/22   **Singularities in Paris 2022**, *Université Paris Cité*, Paris, France, `https://sites.`
25/11/22   `google.com/view/singparis-2022/`

05/09/22   **COMB in CAMB: Combinatorial Methods in Algebraic Geometry**
09/09/22   **in Cambridge**, Cambridge, England, `https://sites.google.com/view/`
         `combincamb2022/`

17/07/22   **Geometry and arithmetic of moduli spaces**, *University of Pisa, Pisa , Italy*,
23/07/22   `https://events.dm.unipi.it/event/15/`

03/07/22   **Singularities in Aussois**, *CNRS*, Aussois, France, `https://indico.math.cnrs.`
09/07/22   `fr/event/7304/`

27/06/22   **SMSMS Mirror Simmetry and Moduli Spaces**, *Instituto Superior Técnico*,
02/07/22   Lisbon, Portugal, `https://www.math.tecnico.ulisboa.pt/~efranco/SMSMS/`
         `2022.html`

06/06/22   **Moduli spaces and stability conditions**, *CIRM*, Levico Terme, Italy, `https:`
10/06/22   `//sites.google.com/unitn.it/modulicirm/`

16/05/22 20/05/22	**Invariants in Algebraic Geometry**, *Institut de Mathématiques de Bourgogne*, Dijon, France, `https://school-iag2020.math.cnrs.fr/`
14/03/22 18/03/22	**2nd Marburger Arbeitsgemeinschaft Mathematik**, *Philipps-Universität Marburg*, Marburg, Germany, School aimed to study the Toral Rank Conjecture. `https://www.mathematik.uni-marburg.de/~agricola/TRC2022/`
August 2018	**Summer school on geometry organized by the Utrecht Geometry Centre**, Utrecht, Netherlands Aimed to cover a spectrum of modern geometry.

Stages

2012 – 2016	**Stages organized by UMI (Italian Mathematical Union)**, Pisa, Italy Aimed to choose the Itailan Team for iternational competition of mathematics. Detailed partecipations: Stage Senior (2012, 2013, 2014, 2015), Winter Camp (2014, 2015, 2016), Stage PreIMO (2014, 2015, 2016).

Languages

Italian	Mother tongue	
English	C1	*Certificated by Scuola Normale Superiore*
French	B1	*Certificated by Scuola Normale Superiore*

Computer skills

Octave	Intermediate
C	Intermediate
LaTeX	Intermediate
Python	Intermediate
SQL	Basic
HTML	Basic
Operating systems	Linux, Windows