

ROBERTO SVALDI: Curriculum Vitae

Università degli Studi di Milano
Dipartimento di Matematica “F. Enriques”
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CURRENT POSITION

Associate professor

12.2025-present

Università degli Studi di Milano, Dipartimento di Matematica “F. Enriques”.
Data della presa di servizio: 15.12.2025

EMPLOYMENT HISTORY

Ricercatore a tempo determinato di tipo B (RTDB) and Rita Levi Montalcini Fellow.

09.2022-12.2025

Università degli Studi di Milano, Dipartimento di Matematica “F. Enriques”.

The position of RTDB is a 3-year tenure-track position in the Italian system.

As a Montalcini Fellow, I carried out research on my project “From birational geometry to its applications: Minimal Model Program, moduli spaces, and algebraic foliations”

Bernoulli Instructor and Marie Curie Fellow.

07.2019-08.2022

École polytechnique fédérale de Lausanne, Institut de Mathématiques.

The position of Bernoulli Instructor at EPFL is comparable to a fixed-term Lectureship or to an Assistant Professorship without tenure-track.

As a Marie Curie Fellow, hosted by the Chair of Algebraic Geometry, I carried out research on my project “Moduli and boundedness problems in Algebraic Geometry” from 01.07.2019 to 31.12.2021.

University Research Fellow.

09.2015-06.2019

University of Cambridge, Department of Pure Mathematics and Mathematical Statistics.

Visiting Scholar at SISSA during academic year 2016-17.

The University Research Fellowship is comparable to an independent postdoc position.

Fellow and College Lecturer in Pure Mathematics.

10.2015-06.2019

Churchill College, Cambridge.

Visiting Scholar at SISSA during academic year 2016-17.

Assegnista di ricerca (Post-Doc).

10.2016-09.2017

Scuola Internazionale di Studi Superiori Avanzati, Area di Matematica.

Supervisor: Prof. Jacopo Stoppa. Funded under ERC Starting Grant no. 307119.

I visited Professor Jacopo Stoppa at SISSA Trieste as part of a collaboration at the interface between birational algebraic geometry and complex geometry focused on the study of Kähler–Einstein metrics on algebraic varieties.

RESEARCH INTERESTS

Minimal Model Program and its applications.

Birational geometry of Calabi–Yau and Fano varieties with applications to physics.

Boundedness questions in algebraic geometry and their topological implications.

The topology of singularities in algebraic geometry and interactions with physics.

Holomorphic foliations and dynamics on projective varieties.

Toric geometry and toroidal compactifications.

Hyperbolicity questions in algebraic geometry.

EDUCATION

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- Ph. D. in Mathematics.** 09.2010-06.2015
Massachusetts Institute of Technology, Department of Mathematics.
Thesis: “*Log geometry and extremal contractions*”. Thesis defended on 27.03.2015.
Advisor: Prof. J. McKernan.
- Laurea Specialistica in Matematica** (equivalent of M.S. in Mathematics). 09.2008-05.2010
Università degli Studi di Roma 3, Faculty of Sciences.
Thesis: “*On the cohomology algebras of compact Kähler manifolds and the Kodaira problem*”.
Advisor: Prof. L. Caporaso.
Graduated on 19.05.2010, with grade 110/110 cum laude.
- Laurea Triennale in Matematica** (equivalent of B.S. in Mathematics). 10.2005- 09.2008
Università degli Studi di Pavia, Faculty of Sciences.
Thesis: “*Riemann’s singularity theorem*”.
Advisor: Prof. M. D. T. Cornalba.
Graduated on 16.09.2008 with grade 110/110 cum laude.

AWARDS, FELLOWSHIPS, GRANTS, HABILITATIONS, SCHOLARSHIPS

Awards

- Federigo Enriques Prize**, 2016, €2000. 03.2017
Awarded by Unione Matematica Italiana and Fondazione Federigo Enriques.

Research grants obtained as PI

- Postdoctoral funding grant**, PI, €79190. 09.2025
Project title: *Boundedness and moduli problems in algebraic geometry and foliation theory*.
Funding by the University of Milan for a 2-year postdoctoral research assistantship.
- PSR Grant**, PI, €24000. 08.2023
Project title: *Moduli problems in algebraic geometry and foliation theory*.
Funding by the University of Milan for incoming researchers that were attracted through a special recruitment program.
- Postdoctoral funding grant**, Co-PI, €56400. 11.2022
Project title: *Boundedness and moduli problems in algebraic geometry and foliation theory*.
Funding by the University of Milan for a 2-year postdoctoral research assistantship.
- Rita Levi Montalcini Fellowship**, PI, €233427,59. 12.2022-12.2025
Project title: *From birational geometry to its applications: Minimal Model Program, moduli spaces, and algebraic foliations*.
Funded by the Italian Ministry for University and Research.
- Marie Skłodowska Curie Individual Fellowship**, PI, €191149,44. 07.2019-12.2021
Project title: *Boundedness and Moduli problems in birational geometry*. Grant No. 842071.
Funded by the European Commission.
- EPSRC Postdoctoral Fellowship**, PI, £293505,40. 02.2019
Project title: *Moduli and boundedness problems in geometry*. Grant No. EP/S024808/1.
Funded by the Engineering and Physical Sciences Research Council , UK. The fellowship was rejected for incompatibility with the MSCA Fellowship.

Research funding obtained as a mentor

- Postdoctoral Fellowship**, PI: Dr. P. Chaudhuri, €70000. 05.2023
Funded by the Istituto Nazionale di Alta Matematica “F. Severi”, to be spent at Università degli Studi di Milano.

Travel grants and funding for academic events

- Grant** No. 550, Co-PI, Foundation Compositio, €9500. 03.2022

<i>Funding for the organization of the workshop in September 2022.</i>	
Grant , Co-PI, Bernoulli Center for Fundamental Studies, 35000CHF.	02.2022
<i>Funding for the organization of the workshop in September 2022.</i>	
Scheme 4 Grant , Co-PI, London Mathematical Society, Ref.41916, £1000.	10.2019
<i>Funding for the visit to King's College London in February 2020.</i>	
Scheme 8 Grant , PI, London Mathematical Society, Ref.81613, £4000.	06.2017
<i>Funding for the organization of the PhD School of December 2017.</i>	
AMS Graduate Student Travel Grant , \$250.	03.2015

Habilitations

Abilitazione scientifica nazionale alla funzione di professore ordinario.	05.2023
<i>Italian national habilitation to the ranking of full professor.</i>	
Abilitazione scientifica nazionale alla funzione di professore associato.	02.2022
<i>Italian national habilitation to the ranking of associate professor.</i>	
Qualification aux fonctions de Maître de Conférences.	01.2019
<i>French national habilitation to the ranking of Maître de Conférences.</i>	

Fellowships and Scholarships

Full tuition and salary , Massachusetts Institute of Technology.	09.2011-06.2015
Praevis Presidential Fellowship , Massachusetts Institute of Technology, \$40000.	09.2010-05.2011
INdAM scholarship for students of the Laurea Specialistica program, awarded by the National Institute for High Mathematics 'F. Severi', €9000.	04.2009-03.2011
INdAM scholarship for students of the Laurea Triennale program, awarded by the National Institute for High Mathematics 'F. Severi', €12000.	01.2006-12.2008
Scholarship at Collegio Borromeo and University Institute for Higher Studies, Pavia, Italy.	10.2005-10.2008

VISITING POSITIONS

Visitor at King's College London (Host: C. Spicer).	10.2025 & 02.2025
Visitor at University of Washington (Host: G. Inchiostro).	10.2024
Participation to the Junior Hausdorff Trimester Program "Algebraic geometry: derived categories, Hodge theory, and Chow groups" .	09-12.2023
Visitor at King's College London (Host: C. Spicer).	07.2023
Visitor at Università di Roma Tor Vergata (Host: M. McQuillan).	04.2022
Visitor at King's College London (Host: C. Spicer).	02.2020
Visitor at University of Bonn (Host: L. Tasin).	10.2018
Visitor at Princeton University (Host: G. Di Cerbo).	03.2018
Visitor at BICMR, Beijing (Host: C. Xu).	10.2017
Visitor at SISSA, Trieste (Host: J. Stoppa).	10.2016-09.2017
Visitor at IMPA, Rio de Janeiro (Host: J. V. Pereira).	03-04.2016
Visitor at Mathematics Department, UC San Diego .	02-06.2015
Visitor at Mathematics Department, Princeton University under the Exchange Scholar Program.	09-12.2024
Visitor at Mathematics Department, UC San Diego .	10.2013-06.2014

PUBLICATIONS

Articles in peer-reviewed journals

16. (with J. Moraga), A characterization of toric singularities, *J. Math. Pures Appl.* (9) 195 (2025), Paper No. 103620, 61 pp. DOI: 10.1016/j.matpur.2024.103620
15. (with S. Filipazzi, C. Hacon), Boundedness of elliptically fibered Calabi–Yau threefolds, *J. Eur. Math. Soc* 27 (2025), no. 9, 3583–3650. DOI: 10.4171/JEMS/1467
14. (with C. Birkar, G. Di Cerbo), Boundedness of elliptic Calabi–Yau varieties with a rational section, *J. Differential Geom.* 128 (2024), no.2, 463–519. DOI: 10.4310/jdg/1727712887

13. (with S. Filipazzi), On the connectedness principle and dual complexes for generalized pairs, *Forum Math. Sigma* 11 (2023), Paper No. e33, 39pp. DOI: 10.1017/fms.2023.25.
12. (with C. Spicer), Effective generation for foliated surfaces: Results and applications, *J. Reine Angew. Math. (Crelle's Journal)* 795 (2023), 45–84. DOI: 10.1515/crelle-2022-0067.
11. (with H. Liu), Rational curves and strictly nef divisors on Calabi–Yau threefolds, *Doc. Math.* 27 (2022), 1581–1604. DOI: 10.4171/DM/904.
10. (with C. Spicer), Local and global applications of the Minimal Model Program for co-rank one foliations on threefolds, *J. Eur. Math. Soc. (JEMS)* 24 (2022), no. 11, 3969–4025. DOI: 10.4171/JEMS/1173.
9. (with L. Braun, J. Moraga, S. Filipazzi), The Jordan property for local fundamental groups, *Geom. Topol.* 26 (2022), no. 1, 283–319. DOI: 10.2140/gt.2022.26.283.
8. (with G. Di Cerbo), Birational boundedness of low dimensional elliptic Calabi-Yau varieties with a section, *Compos. Math.* 157 (2021), no. 8, 1766–1806. DOI: 10.1112/S0010437X2100717X.
7. (with W. Chen, G. Di Cerbo, J. Han, and C. Jiang), Birational boundedness of rationally connected Calabi-Yau threefolds, *Adv. Math.* 378 (2021), Paper No. 107541, 32 pp.. DOI: 10.1016/j.aim.2020.107541.
6. (with S. Filipazzi), Invariance of plurigenera and boundedness for generalized pairs, *Mat. Contemp.* 47 (2020), 114–150. DOI: 10.21711/231766362020/rmc476.
5. Hyperbolicity for log canonical pairs and the Cone Theorem, *Sel. Math. New Ser.* (2019), no. 5, Paper No. 67, 23 pp.. DOI: 10.1007/s00029-019-0512-9.
4. (with J. V. Pereira), Effective algebraic integration in bounded genus, *Algebr. Geom.* 6 (2019), no. 4, 454–485. DOI: 10.14231/AG-2019-021.
3. (with A. Fanelli, G. Codogni, and L. Tasin), A note on the fibres of Mori fibre spaces, *Eur. J. Math.* 4 (2018), no. 3, 859–878. DOI: 10.1007/s40879-018-0219-z.
2. (with M. Brown, J. McKernan, H. R. Zong), A geometric characterization of toric varieties, *Duke Math. J.*, 167 (2018), no. 5, 923–968. DOI: 10.1215/00127094-2017-0047.
1. (with G. Codogni, A. Fanelli, L. Tasin), Fano varieties in Mori fibre spaces, *Int. Math. Res. Not. IMRN* 2016, no. 7, 2026–2067. DOI: 10.1093/imrn/rnv173.

Pre-prints

17. (with P. Cascini, J. Han, J. Liu, F. Meng, C. Spicer, L. Xie), Minimal model program for algebraically integrable adjoint foliated structures, submitted, 50 pp., arXiv:2408.14258.
18. (with P. Cascini, J. Han, J. Liu, F. Meng, C. Spicer, L. Xie), On finite generation and boundedness of adjoint foliated structures, submitted, 45 pp., arXiv:2504.10737.
19. (with P. Engel, S. Filipazzi, F. Greer, M. Mauri), Boundedness of some fibered K-trivial varieties, submitted, 129 pp., arXiv:2507.00973.
20. (with G. Inchiostro, J. Zhao), Moduli of surfaces fibered in log Calabi-Yau pairs, submitted, 56 pp., arXiv:2509.14145.
21. (with P. Cascini, J. Liu, F. Meng, L. Xie), Variation of algebraically integrable adjoint foliated structures, submitted, 26 pp., arXiv:2510.02498.
22. (with C. Spicer, S. Velazquez), On moduli of foliated surfaces, 75 pp., arXiv:2511.13491.
23. (with J. Enwright, S. Filipazzi, Y. Gongyo, J. Moraga, C. Wang, K. Watanabe), Characterization of products of projective spaces via nef complexity, 40 pp., arXiv:2512.13637.

Notes and Surveys

24. Boundedness questions for Calabi–Yau varieties, lecture notes from the C.I.M.E. Course “Calabi–Yau Varieties”, held in Cetraro (Italy), 29.7-02.08.2024, to appear in a Springer Volume curated by Fondazione C.I.M.E.

25. Recent progress on the birational geometry of foliations on threefolds, Oberwolfach Reports 17 (2020), no. 2/3, 1002–1006 DOI: 10.4171/OWR/2020/19
26. On the structure of local and global singularities: Shokurov’s Conjecture, Proceedings of the “Kinosaki Algebraic Geometry Symposium 2017”, 12 pp., available electronically on the Kyoto University Research Information Repository.

INVITED TALKS

Invited lectures series	
2 lectures on <i>Adjoint Foliated Structures & Foliations on Threefolds</i> , Summer School on Birational Geometry and Foliations, Peking University.	08.2025
<i>Boundedness questions for Calabi–Yau varieties</i> , CIME School ‘Calabi–Yau varieties’ Cetraro, Italy.	07.2024
<i>Boundedness for foliated surfaces</i> , Final conference of the ANR Project ‘Foliage’, Quimper, France.	03.2022
<i>A geometric characterization of toric varieties</i> , BAGS, Université de Lorraine.	03.2018
Colloquia	
<i>The geometry of projective varieties</i> , online talk, SISSA, Trieste.	04.2021
Invited conference talks	
<i>Boundedness theorems for fibered Calabi–Yau varieties</i> . Workshop on Fano varieties, BICMR, Beijing.	06.2025
<i>Boundedness theorems for fibered Calabi–Yau varieties</i> . Curves, K3s and Hyperkählers Workshop, Universität Bonn.	06.2025
<i>Boundedness theorems for fibered Calabi–Yau varieties</i> . Families of Kähler spaces, CIRM, Luminy.	04.2025
<i>Adjoint foliated structures</i> . Foliations, birational geometry and applications, CIRM, Luminy.	02.2025
<i>Boundedness of fibered Calabi–Yau varieties</i> . K-trivial varieties and moduli, UC San Diego.	01.2025
<i>Boundedness of fibered Calabi–Yau varieties</i> . Genova-Torino-Milano Seminar, Politecnico di Torino.	11.2024
<i>Birational geometry of surface foliations: towards a moduli theory</i> . Fano varieties in Cetraro, Cetraro, Italia.	09.2024
<i>Boundedness for canonical models of foliated surfaces and adjoint foliated structures</i> Birational geometry of foliations, Fudan University.	08.2024
<i>The birational structure of log Calabi-Yau pairs</i> . Higher Dimensional Algebraic Geometry Celebrating James’ 60th, UC San Diego.	01.2024
<i>Birational geometry of surface foliations: towards a moduli theory</i> . International workshop on Birational Geometry, Nagoya University.	10.2023

<i>Spazi di moduli per superfici foliate di tipo generale.</i> 23rd Congress of the Unione Matematica Italiana, Pisa.	09.2023
<i>Birational geometry of surface foliations: towards a moduli theory.</i> Workshop on dynamics and birational geometry, King's College London.	03.2023
<i>Minimal model program for foliated surfaces: a different approach.</i> Higher Dimensional Geometry in New York: Stability and Moduli, Simons Centre for Geometry and Physics, Stony Brook.	08.2022
<i>A geometric characterization of toric singularities and toric morphisms.</i> Birational Geometry Conference and 2022 meeting of the Swiss Mathematical Society, École polytechnique fédérale de Lausanne.	06.2022
<i>A characterization of toricness.</i> 2021 Workshop on Algebraic Geometry: Generalised Pairs and Applications, online conference, Chinese Academy of Sciences & Tsinghua University.	08.2021
<i>Boundedness of elliptic fibrations.</i> Projective and birational higher dimensional geometry, online conference, Università di Trieste.	04.2021
<i>Recent progress on the birational geometry of foliations on threefolds.</i> Algebraic Geometry: Moduli Spaces, Birational Geometry and Derived Aspects, MFO Oberwolfach.	07.2020
<i>Minimal Model Program for foliations on threefolds and applications.</i> Geometry and Dynamics of Foliations, online conference, CIRM, Marseille.	05.2020
<i>Birational boundedness of elliptic Calabi-Yau varieties.</i> Workshop on the geometry of elliptic fibrations & COW Seminar, University of Warwick.	02.2020
<i>A geometric characterization of toric morphisms.</i> From Trento to Geometry and back, Università di Trento.	12.2019
<i>Birational boundedness of elliptic Calabi-Yau varieties.</i> Moduli and stability conditions, Leibniz Universität Hannover.	07.2019
<i>Birational boundedness of elliptic Calabi-Yau varieties.</i> Western Algebraic Geometry Symposium, UC Berkeley.	04.2019
<i>Towards birational boundedness of elliptic Calabi-Yau varieties.</i> Moduli spaces in Algebraic Geometry and applications, ICM Satellite Conference, short communication, Campinas.	07.2018
<i>On the birational boundedness of the bases of elliptically fibered Calabi-Yau manifolds in low dimension.</i> Geometry and Physics of F-theory, BIRS, Banff.	01.2018
<i>On the geometry of Calabi-Yau varieties in low dimension.</i> Korean-Italian Meeting on Algebraic Geometry 2018, KIAS, Seoul.	01.2018
<i>Global vs. Local structure of singularities.</i> Kinosaki Algebraic Geometry Conference, Kinosaki, Japan.	10.2017
<i>Log birational boundedness of Calabi-Yau pairs.</i> Workshop on Fano varieties and Calabi-Yau varieties, Kobe University.	01.2017

<i>Log birational boundedness of Calabi-Yau pairs.</i> Birational Geometry and Characteristic $p > 0$, CIRM, Marseille.	09.2016
<i>A geometric characterization of toric varieties.</i> Giornate di Geometria Algebrica ed Argomenti Correlati XXIII, Università di Catania.	05.2016
<i>Adjoint dimension of foliations.</i> Cambridge–Tokyo Workshop, I, University of Cambridge.	11.2015
<i>Hyperbolicity for log pairs.</i> Postgraduate Conference in Complex Geometry, University of Cambridge.	09.2015
<i>Hyperbolicity for log pairs.</i> Distribution of Rational and Holomorphic Curves in Algebraic Varieties, BIRS, Banff.	03.2015
<i>A geometric characterization of toric varieties.</i> The Geometry of Algebraic Varieties, AMS Sectional Meeting, Michigan State.	03.2015
<i>A geometric characterization of toric varieties.</i> Geometria e Rappresentazioni nella Capitale, II, Università degli Studi Roma 3.	12.2014

Invited seminar talks

MIT-Harvard Algebraic Geometry Seminar, Harvard University.	10.2025
Seminario di Algebra e Geometria, Sapienza Università di Roma.	05.2025
Seminario di Algebra e Geometria, Università di Bologna.	05.2025
Algebraic Geometry Seminar, online talk, Institute for Research in Fundamental Sciences (IPM), Teheran.	03.2025
Algebraic Geometry Seminar, University of Illinois, Chicago.	01.2025
Algebra and Algebraic Geometry Seminar, University of Washington.	10.2024
Algebraic Geometry Seminar, SISSA, Trieste.	05.2024
Algebraic Geometry Seminar, UC San Diego.	03.2023
Oberseminar Algebraische Geometrie, Leibniz Universität Hannover.	01.2023
Seminario di Geometria ed Algebra, Università degli Studi di Milano.	10.2022
Algebraic Geometry Seminar, Universiteit van Amsterdam.	06.2022
Seminario di Geometria, Università di Roma Tre.	04.2022
Seminario di Geometria, Università di Roma Tor Vergata.	04.2022
Seminario di Algebra e Geometria, Sapienza Università di Roma.	04.2022
Explicit Birational Geometry Seminar, Fudan University.	02.2022
Algebraic Geometry Seminar, Columbia University.	01.2022
Oberseminar: Algebra, Zahlentheorie und algebraische Geometrie, online talk, Albert-Ludwigs-Universität Freiburg.	07.2021
Algebraic Geometry seminar, online talk, University of Kansas.	04.2021
Algebraic Geometry Seminar, online talk, Université de Bordeaux.	04.2021
Dutch online Algebraic Geometry seminar, online talk, Universiteit van Amsterdam.	03.2021
Algebraic Geometry Seminar, online talk, University of Utah.	02.2021
Algebraic Geometry Seminar, online talk, UC San Diego.	01.2021

Iskovskikh Seminar, online talk, Steklov Mathematical Institute, Moscow.	11.2020
Algebraic Geometry Seminar, online talk, Ohio State University.	11.2020
Algebraic Geometry Seminar, online talk, Max Planck Institute, Bonn.	05.2020
Algebraic Geometry Seminar, University of Princeton.	03.2020
KCL/UCL Geometry seminar, University College London.	02.2020
Seminario di Geometria Algebrica, Università di Torino.	03.2019
Edinburgh Geometry Seminar, University of Edinburgh.	03.2019
Séminaire d'homotopie en géométrie algébrique, Université de Toulouse.	01.2019
Oberseminar Algebraische Geometrie, Universität des Saarlandes.	11.2018
Algebraic Geometry Seminar, Max Planck Institute, Bonn.	10.2018
Groups, Arithmetic & Algebraic Geometry Seminar, EPF Lausanne.	09.2018
Seminario di Geometria Algebrica, Università di Trento.	05.2018
Geometry and Mathematical Physics seminar, Loughborough University.	05.2018
Warwick Algebraic Geometry Seminar, University of Warwick.	05.2018
Algebraic Geometry Seminar, UC San Diego.	04.2018
Algebraic Geometry Seminar, University of Utah.	04.2018
Algebraic Geometry Seminar, Princeton.	03.2018
Math-Physics Joint Seminar, UPenn.	03.2018
Mathematics–String Theory Seminar, IPMU, Tokyo.	10.2017
Algebraic Geometry Seminar, University of Tokyo.	10.2017
Log birational boundedness of Calabi-Yau pairs, BICMR, Beijing.	10.2017
Algebraic Geometry Seminar, University of Oslo.	04.2017
Seminario di Geometria Algebrica, SISSA, Trieste.	03.2017
Algebraic Geometry Seminar, University of Cambridge	03.2017
Algebraic Geometry Seminar, University of Tokyo.	01.2017
Groups, Arithmetic & Algebraic Geometry Seminar, EPFL.	11.2016
Algebraic Geometry Seminar, UC San Diego.	11.2016
Seminario de Álgebra, IMPA, Rio de Janeiro.	03.2016
Algebraic Geometry Seminar, Princeton University.	03.2016
Algebraic Geometry Seminar, Columbia University.	03.2016
Geometry and Mathematical Physics seminar, Loughborough University.	02.2016
EDGE Seminar, University of Edinburgh.	01.2016
Geometry and Topology Seminar, Imperial College.	11.2015
Algebraic Geometry Seminar, University of Cambridge.	11.2015
Seminario di Geometria Algebrica, Università degli Studi di Pavia.	10.2015
CIRGET Seminar, UQAM, Montreal.	03.2015
Algebraic Geometry Seminar, Johns Hopkins University.	02.2015
Algebraic Geometry Seminar, UT Austin.	02.2015
Seminario di Geometria Algebrica, Università degli Studi Roma 3.	12.2014
Algebraic Geometry Seminar, UC San Diego.	05.2014

Contributed talks

POSTDOC SUPERVISION

Postdocs

Priyankur Chaudhuri , funded by a grant from INDAM.	10.2023-08.2025
Saverio Andrea Secci , funded by a grant of the University of Milan.	09.2023-04.2025

TEACHING

Teaching as Associate Professor at Università degli Studi di Milano

<i>Geometry 1</i> , Physics Bachelor course (40 hours).	Spring 2026
<i>Algebraic surfaces</i> , Mathematics Master's course (42 hours).	Spring 2026
<i>Positivity in Algebraic Geometry</i> , PhD Course (16 hours).	02-03.2026

Teaching as a RTDB in Università degli Studi di Milano

<i>Algebraic surfaces</i> , Mathematics Master's course (42 hours).	Spring 2025
<i>Matematica del discreto</i> , 1st year service course for the Bachelor in IT (24 hours).	Spring 2025
<i>Matematica del discreto</i> , 1st year service course for the Bachelor in IT (24 hours).	Spring 2024
<i>Matematica del continuo</i> , 1st year service course for the Bachelor in IT (16 hours).	Spring 2024
<i>Matematica</i> , 1st year service course for the Bachelor in Biotechnology (16 hours).	Fall 2023
<i>Matematica</i> , 1st year service course for the Bachelor in Biotechnology (16 hours).	Fall 2022
<i>Matematica Generale</i> , 1st year service course for the Bachelor in Biology (44 hours).	Fall 2022

Teaching as Bernoulli Instructor at EPFL

<i>Complex Manifolds</i> , Mathematics Master's course (28 hours).	Spring 2022
<i>Analysis I</i> , 1st year service course for students of several departments of EPFL (56 hours).	Fall 2021
<i>Analysis I</i> , 1st year service course for students of several departments of EPFL (56 hours).	Fall 2020
<i>Rings and modules</i> , 3rd year Mathematics Bachelor course (28 hours).	Fall 2019
<i>Complex Manifolds</i> , Mathematics Master's course (28 hours).	Fall 2019

Teaching as a Research Fellow at University of Cambridge

<i>Positivity in Algebraic Geometry</i> , Part III course (16 hours).	Lent (Spring) 2018
<i>Linear Series</i> , Part III course (16 hours).	Lent (Spring) 2017
<i>Introduction to birational geometry</i> , Minicourse in 6 lectures (12 hours), part of the Ph.D. course "Topics in algebro-geometric stability", SISSA, Trieste.	12.2016-1.2017

Teaching as a College Lecturer at Churchill College

<i>Groups, Rings and Modules</i> . Supervisor for 10 students (25 hours).	Lent (Spring) 2019
<i>Geometry 1B</i> . Supervisor for 7 students (16 hours).	Lent (Spring) 2019
<i>Groups 1A</i> . Supervisor for 12 students (30 hours).	Michaelmas (Fall) 2018
<i>Group, Rings and Modules</i> . Supervisor for 9 students (26 hours).	Lent (Spring) 2018
<i>Geometry 1B</i> . Supervisor for 7 students (16 hours).	Lent (Spring) 2018
<i>Linear Algebra 1B</i> . Supervisor for 13 students (35 hours).	Michaelmas (Fall) 2017
<i>Group, Rings and Modules</i> . Supervisor for 8 students (16 hours).	Lent (Spring) 2017
<i>Geometry 1B</i> . Supervisor for 9 students (15 hours).	Lent (Spring) 2017
<i>Group, Rings and Modules</i> . Supervisor for 9 students (25 hours).	Lent (Spring) 2016
<i>Geometry 1B</i> . Supervisor for 10 students (16 hours).	Lent (Spring) 2016
<i>Analysis 1B</i> . Supervisor for 12 students (28 hours).	Michaelmas (Fall) 2015
<i>Topology and Metric Spaces</i> . Supervisor for 8 students (12 hours).	Michaelmas (Fall) 2015

Teaching as a graduate student at MIT

18.095, <i>Mathematics Lecture Series</i> . Organizer and Recitation Leader.	IAP 2015
18.085, <i>Computational Science and Engineering</i> . Course Instructor.	Summer 2013

18.095, <i>Mathematics Lecture Series</i> . Organizer and Recitation Leader.	IAP 2013
18.02, <i>Multivariable Calculus</i> . Teaching Assistant.	Fall 2012
18.085, <i>Mathematical Methods for Engineering</i> . Grading Assistant and responsible for Office Hours.	Spring 2012
18.112, <i>Complex Analysis</i> . Grading Assistant and responsible for Office Hours.	Fall 2011
18.755, <i>Lie Groups</i> . Grading Assistant and responsible for Office Hours.	Fall 2011

Teaching as an undergraduate student in Italy

<i>Complex Analysis</i> . Teaching Assistant, University of Rome 3.	Spring 2010
<i>Calculus 1</i> . Teaching Assistant, University of Rome 3.	Fall 2009
<i>General topology</i> . Teaching Assistant, University of Rome 3.	Spring 2009
<i>General Mathematics for Biological Sciences</i> . Teaching Assistant, University of Pavia.	Fall 2008

STUDENT SUPERVISION

Thesis supervision

Beatrice Bernasconi , MA Thesis, “Algebraic foliations on surfaces”, Università degli Studi di Milano.	09.2024-07.2025
Linus Rösler , MA Thesis, “The geometry of elliptic fibrations”, EPFL.	02.2021-09.2021
Anaëlle Pfister , BA project (equivalent to a bachelor’s thesis), “An introduction to toric geometry”, EPFL.	02.2021-06.2021
Luca Nyckess , BA project (equivalent to a bachelor’s thesis), “An introduction to complex manifolds and Hodge Theory”, EPFL.	02.2020-06.2020
Simen Moe , Part III essay (equivalent to a master’s thesis), “An introduction to the Minimal Model Program”, University of Cambridge.	12.2018-05.2019

Study projects supervision

Alberto Smailovic Funcasta , one-semester study project, “Introduction to algebraic structures: from groups to modules”, EPFL.	02.2022-06.2022
Linus Rösler , MA project (one-semester project), “Elliptic surfaces in Algebraic Geometry”, EPFL.	09.2020-12.2020
Maxime Matthey , MA project (one-semester project), “Advanced topics in Commutative Algebra: Completions”, EPFL.	09.2020-12.2020
Gheehyun Nahm , one-semester study project on advanced topics in Algebraic Geometry, University of Cambridge.	08.2018-03.2019
Leon Zhang , Direct Reading Program, Supervisor for an undergraduate student on topics in Hodge Theory, MIT.	IAP 2015
Minseon Shin , Direct Reading Program, Supervisor for an undergraduate student on topics in Scheme Theory, MIT.	IAP 2013

Thesis committee participation

Peter Simko , “Fano varieties”, Master thesis, EPFL.	07.2017
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ORGANIZATION OF CONFERENCES, SEMINARS AND WORKSHOPS

Conferences and workshops

Boundedness and Moduli Problems in Birational Geometry and Foliation Theory five-day workshop (team of 3), Centro di Ricerca Matematica “E. De Giorgi”, Pisa.	10.2025
Higher-dimensional log Calabi–Yau pairs , five-day workshop (team of 4), American Institute of Mathematics, Pasadena, USA.	10.2024
Ricercatori in Algebra e Geometria 2024 , three-day workshop (team of 6), Milano, Italy.	09.2024
Birational workshop , five-day workshop (team of 4), part of the activities of the research trimester “Algebraic geometry: derived categories, Hodge theory, and Chow groups”, Hausdorff Institute for Mathematics, Bonn, Germany.	11.2023
Foliations in Algebraic and Birational Geometry , five-day workshop (team of 4), Bernoulli Center for Fundamental Studies, Lausanne, Switzerland.	09.2022

Basel-Dijon-EPFL Workshop , two-day workshop (team of 2), Lausanne, Switzerland.	05.2022
Basel-Dijon-EPFL Workshop , two-day workshop, (team of 5), Basel, Switzerland.	11.2021
Basel-Dijon-EPFL Workshop , two-day workshop, (team of 4), Lausanne, Switzerland.	11.2019
Cambridge-Tokyo Algebraic Geometry Workshop, III , two-day workshop, (team of 4), Cambridge, UK.	12.2018
New advances in Fano manifolds , five-day school for Ph.D. students, (team of 4), Cambridge, UK.	12.2017
British Algebraic Geometry , three-day conference, (local organizer), Cambridge, UK.	09.2017
Cambridge-Tokyo Algebraic Geometry Workshop, II , two-day workshop, (team of 4), Cambridge, UK.	03.2017
MIT-RTG Mirror Symmetry Workshop , five-day workshop, (team of 6), Big Bear Lake, US.	05.2013

Seminars and colloquia

Organizer for the colloquium at the Mathematics Department, Università di Milano.	10.2025-present
Organizer for Seminari Enriques – Algebra & Geometria, Università di Milano.	06.2024-12.2025
<i>A colloquium in Algebra & Geometry at the University of Milan.</i>	
Organizer for the Groups, Arithmetic & Algebraic Geometry Seminar, EPFL.	09.2019-08.2022
Organizer for the Algebraic Geometry Seminar, University of Cambridge.	10.2017-06.2019

OUTREACH ACTIVITIES

HE+ Masterclass , Churchill College, Cambridge	04.2019
<i>I gave a lecture on modern geometry and organized an exercise session for high school students.</i>	
Open days , Churchill College, Cambridge	07.2018
<i>I gave a lecture on symmetries and geometry and organized an exercise session for high school students.</i>	
Orientation for high-school students, Liceo Classico “G. Prati”, Trento	04.2012
<i>I spoke to high school students about what are the challenges of becoming a maths student starting from a background in humanities.</i>	

ACADEMIC SERVICES

Refereeing and reviewing activity

Referee for academic journals: (unless otherwise stated, 1 report per journal)	Since 2015
<i>Journal list:</i> Mathematics Research Letter, Michigan Journal of Mathematics, International Mathematics Research Notices (6 reports), Mathematische Annalen (2 reports), Annali della Scuola Normale Superiore di Pisa, Journal of Algebraic Geometry (3 reports), Inventiones Mathematicae (3 reports), International Journal of Mathematics (3 reports), Manuscripta Mathematica (2 reports), Advances in Mathematics (2 reports), Transactions of the AMS (2 reports), Annales de l’Institut Fourier, Journal of Differential Geometry (2 reports), Proceedings of the LMS (3 reports), Advances in Geometry (2 reports), Forum Math Pi (2 reports), Journal of the LMS, Electronic Research Archive, Mathematische Zeitschrift, Journal of the AMS, Compositio Mathematica (3 reports), Bulletin of the LMS, Revista Matematica Iberoamericana (2 reports).	
Referee for conference proceedings: (by conference title)	Since 2013
Groups of Automorphisms in Birational and Affine Geometry; Moduli of K-stable Varieties; Birational geometry, Kähler-Einstein metrics and degenerations.	
Referee for grants and fellowships applications submitted to the	Since 09.2019
Engineering and Physical Sciences Research Council, UK (3 grants). Agencia Nacional de Investigación y Desarrollo, Chile (1 grant)	
Reviewer for Zentralblatt and Mathscinet (8 reviews).	Since 2014

Mentoring activity

Mentor for 1st year students of the Bachelor in Mathematics, Università degli Studi di Milano.	10.2022-present
Mentor for the students of the Institute of Mathematics, EPFL.	11.2020-07.2021
Mentor for postgraduate students, Churchill College.	10.2017-06.2019

Committee participation

Postdoc Hiring Committee:

Università degli Studi di Milano, 1 position.	11-12.2025
Università degli Studi di Milano, 1 position.	02.2025
Università degli Studi di Milano, 1 position.	09.2024
Chair of Algebraic Geometry, EPFL, 2 positions.	02.2022
Chair of Algebraic Geometry, EPFL, 2 positions.	02.2021

Graduate studies Committee, Università degli Studi di Milano. 05.2024-present

Doctoral students Selection Committee, Chair of Algebraic Geometry, EPFL. 02.2022

Admission Selection Interviews, Churchill College, Cambridge. 12.2018

LANGUAGES

Italian: mother tongue.
English: professional proficiency.
French: intermediate level.
German: beginner level.

Last update: December 15th 2025