ROBERTO SVALDI: Curriculum Vitae

École polytechnique fédérale de Lausanne
EPFL SB MATH MATH-GE
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CURRENT POSITION

Bernoulli Instructor and **Marie Curie Fellow**, 07.2019-present
École polytechnique fédérale de Lausanne, Institute of Mathematics.
The position of Bernoulli Instructor at EPFL is comparable to a fixed-term Lectureship or to an Assistant Professorship without tenure.
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.

EMPLOYMENT HISTORY

University Research Fellow, University of Cambridge, 09.2015-06.2019
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), SISSA, 10.2016-09.2017
Area of Mathematics. Group of Geometry and Mathematical Physics.
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

Ph. D. in Mathematics. 09.2010-06.2015
Massachusetts Institute of Technology, Department of Mathematics.
Thesis: "Log geometry and extremal contractions".
Advisor: Prof. J. M^{c}Kernan.

Laurea Specialistica in Matematica (equivalent of M.S. in Mathematics). 09.2008-05.2010
Universitá 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
Universitá 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

Awards

Federigo Enriques Prize, 2016, awarded by Unione Matematica Italiana and Fondazione Federigo Enriques (€2000). 03.2017

Grants

Funding Compositio, Co-PI, Foundation Compositio, #550, (9500EUR) 03.2022
for the organization of the workshop in September 2022.
Grant, Co-PI, Bernoulli Center for Fundamental Studies, (35000CHF) 02.2022
for the organization of the workshop in September 2022.
Scheme 4 Grant, Co-PI , London Mathematical Society, Ref.41916 (£1000), 10.2019
for the visit to King's College London in February 2020.
Marie Skłodowska Curie Individual Fellowship, PI, "Boundedness 07.2019-12.2021
and Moduli problems in birational geometry", Grant No.842071. (€191149,44)
EPSRC Postdoctoral Fellowship, PI, "Moduli and boundedness problems 02.2019
in geometry", EP/S024808/1, rejected in favour of the MSCA Fellowship. (£293505,40)
Scheme 8 Grant, PI, London Mathematical Society, Ref.81613, (£4000) 06.2017
for the organization of the PhD School of December 2017.
AMS Graduate Student Travel Grant ($250). 03.2015

Habilitations

Abilitazione scientifica nazionale a professore associato 02.2022
Italian national habilitation to the ranking of associate professor
Qualification aux fonctions de Maître de Conférences 01.2019
French national habilitation to the ranking of Maître de Conférences

Fellowships and Scholarships

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

VISITING POSITIONS

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).	03.2016-04.2016
Visitor at Mathematics Department, UC San Diego.	02.2015-06.2015
Visitor at Mathematics Department, Princeton University under the Exchange Scholar Program.	09.2014-12.2014
Visitor at Mathematics Department, UC San Diego.	10.2013-06.2014

PUBLICATIONS

Articles in peer-reviewed journals

10. (joint with C. Spicer), Local and global applications of the Minimal Model Program for co-rank one foliations on threefolds, in print at Journal of the European Mathematical Society, 57 pp., DOI: 10.4171/JEMS/1173.
9. (joint with L. Braun, J. Moraga, S. Filipazzi), The Jordan property for local fundamental groups, Geometry & Topology 26-1 (2022), 283–319. DOI: 10.2140/gt.2022.26.283.
8. (joint 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. (joint with W. Chen, G. Di Cerbo, J. Han, and C. Jiang), Birational boundedness of rationally connected Calabi-Yau threefolds, Adv. Math., 378 (2021), 107541, 32 pp., DOI: 10.1016/j.aim.2020.107541
6. (joint with S. Filipazzi), Invariance of plurigenera and boundedness for generalized pairs, Mat. Contemp. 47 (2020), 114–150, Proceedings of the ICM Satellite "Moduli spaces in Algebraic Geometry and Applications", Campinas, Brazil 2018, DOI: 10.21711/231766362020/rmc476
5. Hyperbolicity for log canonical pairs and the Cone Theorem, Sel. Math. New Ser. (2019), no.5, paper 67, 23 pp., DOI: 10.1007/s00029-019-0512-9.
4. (joint with J. V. Pereira), Effective algebraic integration in bounded genus, Algebraic Geometry 6 (4) (2019) 454–485, DOI:10.14231/AG-2019-021.
3. (joint 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. (joint with M. Brown, J. M^{c}Kernan, H. R. Zong), A geometric characterization of toric varieties, Duke Math. J., Volume 167, Number 5 (2018), 923–968, DOI:10.1215/00127094-2017-0047.
1. (joint with G. Codogni, A. Fanelli, L. Tasin), Fano varieties in Mori fibre spaces, Int. Math. Res. Not., Volume 2016, Issue 7: 2026–2067, DOI:10.1093/imrn/rnv173.

Pre-prints

11. (joint with H. Liu), Rational curves and strictly nef divisors on Calabi–Yau threefolds, submitted, 18 pp., arXiv:2010.12233.
12. (joint with S. Filipazzi), On the connectedness principle and dual complexes for generalized pairs, submitted, 48 pp., arXiv:2010.08018.
13. (joint with C. Birkar, G. Di Cerbo), Boundedness of elliptic Calabi–Yau varieties with a rational section, submitted, 44 pp., arXiv:2010.09769.
14. (joint with C. Spicer) Effective generation for foliated surfaces: results and applications, submitted, 32 pp., arXiv:2104.11540.
15. (joint with J. Moraga), A characterization of toric singularities, 57 pp., arXiv:2108.01717.
16. (joint with S. Filipazzi, C. Hacon), Boundedness of elliptically fibered Calabi–Yau threefolds, submitted, 49pp, arXiv:2112.01352.

Surveys

17. On the structure of local and global singularities: Shokurov's Conjecture, Proceedings for the Kinosaki algebraic geometry symposium 2017, 12 pages, available electronically on the Kyoto University Research Information Repository.
18. 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

INVITED TALKS

Invited lectures series

Boundedness for foliated surfaces, 03.2022
Final conference of the ANR Project Foliage, Quimper, France.

A geometric characterization of toric varieties, BAGS, Université de Loraine. 03.2018

Colloquia

The geometry of projective varieties, online talk, SISSA, Trieste. 04.2021

Invited conference talks

A characterization of toricness, 2021 Workshop on Algebraic Geometry: Generalised Pairs and Applications, online conference, Chinese Academy of Sciences & Tsinghua University. 08.2021

Boundedness of elliptic fibrations, 04.2021
Projective and birational higher dimensional geometry, online conference, Universitá di Trieste

Recent progress on the birational geometry of foliations on threefolds, 07.2020
Algebraic Geometry: Moduli Spaces, Birational Geometry and Derived Aspects, MFO Oberwolfach.

Minimal Model Program for foliations on threefolds and applications, 05.2020
Geometry and Dynamics of Foliations, online conference, CIRM.

Birational boundedness of elliptic Calabi-Yau varieties, 02.2020
Workshop on the geometry of elliptic fibrations & COW Seminar, University of Warwick.

A geometric characterization of toric morphisms, 12.2019
From Trento to Geometry and back, Universitá di Trento.

Birational boundedness of elliptic Calabi-Yau varieties, 07.2019
Moduli and stability conditions, Leibniz Universität Hannover.

Birational boundedness of elliptic Calabi-Yau varieties, 04.2019
Western Algebraic Geometry Symposium, UC Berkeley.

Towards birational boundedness of elliptic Calabi-Yau varieties, short communication 07.2018
Moduli spaces in Algebraic Geometry and applications, ICM Satellite Conference, Campinas.

On the birational boundedness of the bases of elliptically fibered Calabi-Yau 01.2018
manifolds in low dimension, Geometry and Physics of F-theory, BIRS.

On the geometry of Calabi-Yau varieties in low dimension, 01.2018
Korean-Italian Meeting on Algebraic Geometry 2018, KIAS, Seoul.

Global vs. Local structure of singularities, 10.2017
Kinosaki Algebraic Geometry Conference, Japan.

Log birational boundedness of Calabi-Yau pairs, 01.2017
Workshop on Fano varieties and Calabi-Yau varieties, Kobe University.

Log birational boundedness of Calabi-Yau pairs, 09.2016
Birational Geometry and Characteristic $p > 0$, CIRM, Marseille.

A geometric characterization of toric varieties, 05.2016
Giornate di Geometria Algebrica ed Argomenti Correlati XXIII, Universitá di Catania.

Adjoint dimension of foliations, 11.2015
Cambridge–Tokyo Workshop, I, University of Cambridge.

Hyperbolicity for log pairs, 09.2015
Postgraduate Conference in Complex Geometry, University of Cambridge.

Hyperbolicity for log pairs, 03.2015
Distribution of Rational and Holomorphic Curves in Algebraic Varieties, Birs.

A geometric characterization of toric varieties, 03.2015
The Geometry of Algebraic Varieties, AMS Sectional Meeting, Michigan State.

A geometric characterization of toric varieties, 12.2014
Geometria e Rappresentazioni nella Capitale, II, Universitá degli Studi Roma 3.

Invited seminar talks

Seminario di Geometria, Universitá di Roma Tre. 04.2022

Seminario di Geometria, Universitá di Roma Tor Vergata. 04.2022

Seminario di Algebra e Geometria, Sapienza Universitá 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, 07.2021
Albert-Ludwigs-Universität Freiburg.

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), 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, Universitá 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, Universitá 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, Universitá 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, Universitá degli Studi Roma 3.	12.2014
Algebraic Geometry Seminar, UC San Diego.	05.2014

Contributed talks

Hyperbolicity for log pairs, AMS Summer Institute in Algebraic Geometry, Salt Lake City.	07.2015

TEACHING

Teaching as an Instructor at EPFL

Complex Manifolds, Mathematics Master's course, EPFL.	Spring 2022
Analysis I, 1st year Bachelor course, EPFL.	Fall 2021
Analysis I, 1st year Bachelor course, EPFL.	Fall 2020
Rings and modules, 3rd year Mathematics Bachelor course, EPFL.	Fall 2019
Complex Manifolds, Mathematics Master's course, EPFL.	Fall 2019

Teaching as a Research Fellow at University of Cambridge

Positivity in Algebraic Geometry, Part III course, University of Cambridge.	Lent (Spring) 2018
Linear Series, Part III course, University of Cambridge.	Lent (Spring) 2017
Introduction to birational geometry, Minicourse in 6 lectures, 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

Groups, Rings and Modules. Supervisor for 10 students (25 hours).	Lent (Spring) 2019
Geometry 1B. Supervisor for 7 students (16 hours).	Lent (Spring) 2019
Groups 1A. Supervisor for 12 students (30 hours).	Michaelmas (Fall) 2018
Group, Rings and Modules. Supervisor for 9 students (26 hours).	Lent (Spring) 2018
Geometry 1B. Supervisor for 7 students (16 hours).	Lent (Spring) 2018
Linear Algebra 1B. Supervisor for 13 students (35 hours).	Michaelmas (Fall) 2017
Group, Rings and Modules. Supervisor for 8 students (16 hours).	Lent (Spring) 2017
Geometry 1B. Supervisor for 9 students (15 hours).	Lent (Spring) 2017
Group, Rings and Modules. Supervisor for 9 students (25 hours).	Lent (Spring) 2016

Geometry 1B. Supervisor for 10 students (16 hours).	Lent (Spring) 2016
Analysis 1B. Supervisor for 12 students (28 hours).	Michaelmas (Fall) 2015
Topology and Metric Spaces. Supervisor for 8 students (12 hours).	Michaelmas (Fall) 2015

Teaching as a graduate student at MIT

18.095, Mathematics Lecture Series, Organizer and Recitation Leader.	IAP 2015
18.085, Computational Science and Engineering, Course Instructor.	Summer 2013
18.095, Mathematics Lecture Series, Organizer and Recitation Leader.	IAP 2013
18.02, Multivariable Calculus, Teaching Assistant.	Fall 2012
18.085, Mathematical Methods for Engineering, Grading Assistant and responsible for Office Hours.	Spring 2012
18.112, Complex Analysis, Grading Assistant and responsible for Office Hours.	Fall 2011
18.755, Lie Groups, Grading Assistant and responsible for Office Hours.	Fall 2011

Teaching as an undergraduate student in Italy

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

STUDENT SUPERVISION

Thesis supervision

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, BA 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, Study project for an undergraduate student on advanced topics in Algebraic Geometry, University of Cambridge.	08.2018-03.2019
Leon Zhang, Direct Reading Program, Supervisor for an undergraduate student learning Hodge Theory, MIT.	IAP 2015
Minseon Shin, Direct Reading Program, Supervisor for an undergraduate student learning Scheme Theory, MIT.	IAP 2013

Thesis committee participation

Peter Simko, "Fano varieties", Master thesis, EPFL.	07.2017

ORGANIZATION OF CONFERENCES, SEMINARS AND WORKSHOPS

Conferences and workshops

Foliations in Algebraic and Birational Geometry, 5 days 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, CA. 05.2013

Seminars

Organizer for the Groups, Arithmetic & Algebraic Geometry Seminar, EPFL. 07.2019-present
Organizer for the Algebraic Geometry Seminar, University of Cambridge. 10.2017-06.2019

OUTREACH ACTIVITIES

HE+ Masterclass, Churchill College, Cambridge 04.2019
I gave a lecture on modern geometry and organized an exercise session for high school students.

Open days, Churchill College, Cambridge 07.2018
I gave a lecture on symmetries and geometry and organized an exercise session for high school students.

Orientation for high-school students, Liceo Classico "G. Prati", Trento 04.2012
I spoke to high school students about what are the challenges of becoming a maths student starting from a background in humanities.

ACADEMIC SERVICES

Refereeing and reviewing activity

Referee for academic journals: Since 2015
Mathematics Research Letter, Michigan Journal of Mathematics, International Mathematics Research Notices (3x), Mathematische Annalen, Annali della Scuola Normale Superiore di Pisa, Journal of Algebraic Geometry, Inventiones Mathematicae, International Journal of Mathematics, Manuscripta Mathematica, Advances in Mathematics (2x), Transactions of the AMS, Annales de l'Insitute Fourier, Journal of Differential Geometry, Proceedings of the LMS, Advances in geometry, Forum Math Pi, Journal of the LMS, Electronic Research Archive.

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 Engineering and Physical Sciences Research Council, UK (3 grants reviewed). Since 09.2019

Reviewer for Zentralblatt and Mathscinet. Since 2014

Mentoring activity

Mentor for postgraduate students, Churchill College. 10.2017-06.2019

Mentor for the students of the Institute of Mathematics, EPFL. 11.2020-present

Committee participation

Admission Selection Interviews, Churchill College, Cambridge.	12.2018
Postdoc Selection Committee for the Chair of Algebraic Geometry, EPFL.	02.2021 and 02.2022
Doctoral students Selection Committee for the Chair of Algebraic Geometry, EPFL.	02.2022

LANGUAGES

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

Last update: May 2nd, 2022

REFERENCES

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