Luca Schaffler, Curriculum Vitae

Department of Mathematics and Physics
Roma Tre University
Via della Vasca Navale 84, 00146 Rome, Italy

Office: 0.04
Email: luca.schaffler@uniroma3.it
Web: https://ricerca.matfis.uniroma3.it/users/lschaffler/

Employment

- *Limited time researcher of type B* (equivalent to tenure-track), Roma Tre University
  Dates: March 1, 2022 – present
  Since February 1, 2023: *Rita Levi Montalcini Fellow*

- Postdoc, KTH Royal Institute of Technology
  Dates: August 17, 2020 – February 28, 2022
  Research mentor: Prof. Sandra Di Rocco

- Marshall H. Stone Visiting Assistant Professor, University of Massachusetts Amherst
  Dates: September 1, 2017 – August 31, 2020
  Research mentor: Prof. Jenia Tevelev

Education

- Ph.D. Mathematics, University of Georgia, 2012 – 2017
  Thesis title: The KSBA Compactification of a 4-dimensional Family of Polarized Enriques Surfaces
  Advisor: Prof. Valery Alexeev

- M.S. Mathematics, Roma Tre University, 2010 – 2012
  Grade: 110/110 cum laude

- B.S. Mathematics, Roma Tre University, 2007 – 2010
  Grade: 110/110 cum laude

Preprints

- Hanlong Fang, Luca Schaffler, and Xian Wu. *Fineness and smoothness of the KSBA moduli of marked cubic surfaces*, (2025). Submitted. arXiv:2501.05822.

- Patricio Gallardo and Luca Schaffler. *An explicit wall crossing for the moduli space of hyperplane arrangements*, (2024). Submitted. arXiv:2405.09051.

Publications

- Alessio Caminata, Enrico Carlini, and Luca Schaffler. *Simplices osculating rational normal curves*, (2024). To appear in **Vietnam Journal of Mathematics.** arXiv:2404.03922.

- Valery Alexeev, Philip Engel, D. Zack Garza, and Luca Schaffler. *Compact moduli of Enriques surfaces with a numerical polarization of degree 2*, (2023). To appear in **Nagoya Mathematical Journal.** arXiv:2312.03638.

- Riccardo Moschetti, Franco Rota, and Luca Schaffler. *The non-degeneracy invariant of Brandhorst and Shimada's families of Enriques surfaces.* **Documenta Mathematica** 29 (2024), no. 5, 1219–1242.

- Alessio Caminata, Han-Bom Moon, and Luca Schaffler. *Determinantal varieties from point configurations on hypersurfaces.* **International Mathematics Research Notices** (2023), no. 22, 19743–19772.

- Patricio Gallardo, Gregory Pearlstein, Luca Schaffler, and Zheng Zhang. *Unimodal singularities and boundary divisors in the KSBA moduli of a class of Horikawa surfaces.* **Mathematische Nachrichten** 297 (2024), no. 2, 595–628.

- Sandra Di Rocco, Lukas Gustafsson, and Luca Schaffler. *Gaussian likelihood geometry of projective varieties.* **SIAM Journal on Applied Algebra and Geometry** 8 (2024), no. 1, 89–113.

- Riccardo Moschetti, Franco Rota, and Luca Schaffler. *A computational view on the non-degeneracy invariant for Enriques surfaces.* **Experimental Mathematics** 33 (2024), no. 3, 400–421.

- Sandra Di Rocco and Luca Schaffler. *Families of pointed toric varieties and degenerations.* **Mathematische Zeitschrift** 301 (2022), no. 4, 4119–4139.

- Luca Schaffler and Jenia Tevelev. *Compactifications of moduli of points and lines in the projective plane.* **International Mathematics Research Notices** (2022), no. 21, 17000–17078.

- Patricio Gallardo, Matt Kerr, and Luca Schaffler. *Geometric interpretation of toroidal compactifications of moduli of points in the line and cubic surfaces.* **Advances in Mathematics** 381, 16 April 2021.

- Alessio Caminata, Noah Giansiracusa, Han-Bom Moon, and Luca Schaffler. *Point configurations, phylogenetic trees, and dissimilarity vectors.* **Proceedings of the National Academy of Sciences of the United States of America (PNAS)** March 23, 2021 118 (12).

- Kuan-Wen Lai, Yu-Shen Lin, and Luca Schaffler. *Decomposition of Lagrangian classes on K3 surfaces.* **Mathematical Research Letters** 28 (2021), no. 6, 1739–1763.

- Alessio Caminata and Luca Schaffler. *A Pascal's theorem for rational normal curves.* **Bulletin of the London Mathematical Society** 53 (2021), no. 5, 1470–1485.

- Han-Bom Moon and Luca Schaffler. *KSBA compactification of the moduli space of K3 surfaces with a purely non-symplectic automorphism of order four.* **Proceedings of the Edinburgh Mathematical Society** (2) 64 (2021), no. 1, 99–127.

- Alessio Caminata, Noah Giansiracusa, Han-Bom Moon, and Luca Schaffler. *Equations for point configurations to lie on a rational normal curve.* **Advances in Mathematics** 340 (2018), 653–683.

- Luca Schaffler. *K3 surfaces with $\mathbb{Z}_2^2$ symplectic action.* **Rocky Mountain Journal of Mathematics** 48 (2018), no. 7, 2347–2383.

- Luca Schaffler. *The KSBA compactification of the moduli space of $D_{1,6}$-polarized Enriques surfaces.* **Mathematische Zeitschrift** 300 (2022), no. 2, 1819–1850.

- Luca Schaffler. *On the cone of effective 2-cycles on $\overline{M}_{0,7}$.* **European Journal of Mathematics** 1 (2015), no. 4, 669–694.

Qualification

- Italian national habilitation to the rank of associate professor. Awarded by the Italian Ministry of University and Research on May 29, 2023.

Awards and Funding

- GNSAGA Project "Numerical Invariants of Nodal Enriques Surfaces." Awarded by the *Istituto Nazionale di Alta Matematica "Francesco Severi"* (INdAM). Amount awarded: €3500. Awarded on March 13, 2023. Co-applicant.
- Rita Levi Montalcini Grant "Birational geometry of compact moduli spaces via singularity theory and point configurations." Awarded by the Italian Ministry of University and Research. Amount awarded: €202827,59 (of which €18000 for research budget). Awarded on Aug 25, 2022. Principal applicant.

  `https://bandomontalcini.cineca.it/ProgGiovRic/dm250822_1039.pdf`
- Roma Tre University, maximum annual research budget for 2022, 2023, and 2024.
- Collaborate@ICERM project "Point Configurations on Projective Varieties." Amount awarded: Funding for travel to ICERM and accommodation. Awarded on Oct 7, 2021 (the event took place on Jan 9–13, 2023). Co-applicant.
- KTH travel fund, Academic Year 2021–2022, 20000 SEK.
- Research Support Fund, Massachusetts Society of Professors, Academic Year 2019–2020, $1000.
- Research Support Fund, Massachusetts Society of Professors, Academic Year 2018–2019, $1000.
- Marshall H. Stone Visiting Assistant Professor travel funding, $2000 per academic year, 2017 – 2020.
- Dissertation Completion Award. Awarded by the University of Georgia. Amount awarded: $14720 (funding for Fall 2016 – Spring 2017). Awarded on May 19, 2016. Principal applicant.
- William Armor Wills Memorial Scholarship Award, University of Georgia, Department of Mathematics, April 2016, $1000.
- Outstanding Graduate Teaching Assistant Award, University of Georgia, April 2016.
- NSF Funding (PI: Valery Alexeev), University of Georgia, Fall 2015, Summer 2016 and 2017.
- RTG Funding, University of Georgia, Spring 2016.
- Graduate School Research Assistantship, University of Georgia, Summer 2013, 2014, and 2015.
- Graduate Student Teaching Assistantship, University of Georgia, Fall 2012 – Spring 2015.

Teaching Experience

- **Roma Tre University**

  Main instructor
  - Graph Theory, GE460, Spring 2025.
  - Geometry of Enriques Surfaces, PhD course, joint between Sapienza, Tor Vergata, and Roma Tre, Fall 2024 (18 hours). Link to course webpage:

    `https://ricerca.matfis.uniroma3.it/users/lschaffler/geometry_Enriques_surfaces_fall_2024.html`
  - Riemannian Geometry, GE430, Fall 2023.
  - Algebraic Geometry 2, GE510, Spring 2023.

- Compactifications of Moduli Spaces, PhD course, joint between Sapienza, Tor Vergata, and Roma Tre, Fall 2022 (16 hours). Link to course webpage:
  `https://ricerca.mat.uniroma3.it/users/lschaffler/compact_moduli_spaces_fall_2022.html`
- Riemannian Geometry, GE430, Spring 2022.

Teaching assistant
- Geometry and Linear Algebra 1, GE110, Spring 2025.
- Geometry and Linear Algebra 2, GE210, Fall 2023.
- Elements of Advanced Geometry, GE310, Fall 2023.
- Topology, GE220, Spring 2023.
- Elements of Advanced Geometry, GE310, Fall 2022.

- **KTH Royal Institute of Technology**

  Main instructor (the following courses were joint between KTH and Stockholm University)
  - Commutative Algebra and Algebraic Geometry, MM7042, Fall 2021 (co-taught with Timothy Hosgood).
  - Intersection Theory and Moduli Spaces, PhD course, Term 4, Spring 2021 (16 hours). Link to course webpage:
    `https://ricerca.mat.uniroma3.it/users/lschaffler/intersection_theory_and_moduli_spaces_spring_2021.html`

  Teaching assistant
  - Discrete Mathematics, SF1610, Term 4, Spring 2021.
  - Calculus in One Variable, SF1685, Term 3, Spring 2021.

- **University of Massachusetts Amherst**

  Main instructor
  - Multivariate Calculus, MATH 233, one section, Spring 2020.
  - Fundamental Concepts of Mathematics, MATH 300, two sections, Fall 2019.
  - Fundamental Concepts of Mathematics, MATH 300, one section, Spring 2019.
  - Introduction to Abstract Algebra I, MATH 411, two sections, Fall 2018.
  - Fundamental Concepts of Mathematics, MATH 300, one section, Spring 2018.
  - Multivariate Calculus, MATH 233, two sections, Fall 2017.

- **University of Georgia**

  Main instructor
  - Calculus I for Science and Engineering, MATH 2250, one section, Spring 2015.
  - Precalculus, MATH 1113, one section, Fall 2014.

  Teaching assistant for Analytic Geometry and Calculus, MATH 2200, Fall 2013.

  Grader
  - Real Analysis I, MATH 8100, Fall 2014
  - Graph Theory, MATH 4690/6690, Spring 2014
  - Modern Algebra and Geometry I, MATH 4000/6000, Fall 2013
  - Point Set Topology, MATH 4200/6200, Spring 2013
  - Algebraic Topology, MATH 8200, Spring 2013, Spring 2014
  - Combinatorics, MATH 4670/6670, Fall 2012
  - Real Analysis, MATH 4100/6100, Fall 2012

  Tutor for the Precalculus and Calculus courses (Study Hall), 2012 – 2014.

Invited Conference Talks

- Geometry in Bicocca 2024, University of Milan "Bicocca", Milan, September 10, 2024.
- Mathematical Pathways to an Excellent Future, University of California Riverside, Riverside, May 24, 2024.
- "Ricercatori in Algebra e Geometria 2023", Roma Tre University, Rome, September 21, 2023.
- Explicit Moduli Problems in Higher Dimensions, Banff International Research Station for Mathematical Innovation and Discovery, Banff, March 2, 2023.
- Winter Meeting in Algebra and Geometry, Roma Tre University, Rome, December 20, 2022.
- Moduli Day, Max Planck Institute for Mathematics in the Sciences, Leipzig, November 7, 2022.
- XMaths Workshop 2021, Università degli Studi di Bari Aldo Moro, Bari, December 21, 2021.
- Moduli spaces and logarithmic geometry, Institut Mittag-Leffler, Stockholm, November 19, 2021.
- Hodge Theory, Arithmetic and Moduli II, Texas A&M University, College Station, February 8, 2020.
- PIMS Symposium on Hodge Theory, Arithmetic and Moduli, University of British Columbia, Vancouver, May 15, 2019.
- BATMOBYLE, Amherst College, Amherst, May 2, 2019.
- Hodge Theory, Moduli and Representation Theory, Stony Brook University, August 17, 2017.
- Workshop on Algebraic Varieties, Hodge Theory and Motives, Fields Institute, Toronto, March 12, 2017.
- Focused Research Group on Hodge Theory, Moduli and Representation Theory: Workshop VIII, Washington University in St. Louis, St. Louis, January 8, 2017.
- American Institute of Mathematics, Workshop on Positivity of Cycles, San Jose, August 4, 2016.
- "Giornate di Geometria Algebrica ed Argomenti Correlati XIII", University of Catania, Catania, Italy, May 25, 2016.

Invited Seminar Talks

- Institute for Basic Science (IBS), Center for Complex Geometry, Algebraic Geometry Seminar, Daejeon, December 11, 2024.
- Institute for Basic Science (IBS), Center for Complex Geometry, Algebraic Geometry Seminar, Daejeon, December 06, 2024.
- University of Bologna, Algebra and Geometry Seminar, Bologna, November 12, 2024.
- Peking University, Algebraic Geometry Seminar, Beijing, October 30, 2024.
- University of Milan – Statale, Algebraic Geometry Seminar, Milan, June 13, 2024.
- University of California Riverside, UC Riverside Algebraic Geometry Seminar, Riverside, May 28, 2024.
- University of Colorado Boulder, Algebraic Geometry Seminar, Boulder, May 2, 2024.
- University of Georgia, Algebraic Geometry Seminar, Athens, April 24, 2024.
- University of Pisa, Algebraic and Arithmetic Geometry Seminar, Pisa, April 3, 2024.
- University of Tor Vergata, Geometry Seminar, Rome, March 26, 2024.
- University of Genova, Algebra & Geometry Seminar, Genova, January 30, 2024.
- University of Genova, Algebra & Geometry Seminar, Genova, April 19, 2023.
- University of Glasgow, Algebra and Number Theory Seminar, Glasgow, February 8, 2023.

- University of Massachusetts Amherst, Valley Geometry Seminar, Amherst, January 20, 2023.
- University of Connecticut, Algebra Seminar, Storrs, January 18, 2023.
- University of Nottingham, Online Algebraic Geometry Seminar, **online**, July 28, 2022.
- Università di Pisa, Algebraic and Arithmetic Geometry Seminar, Pisa, May 4, 2022.
- Tata Institute of Fundamental Research, Colloquium, **online**, January 22, 2021.
- University of California Riverside, UC Riverside Algebraic Geometry Seminar, **online**, January 19, 2021.
- University of California Riverside – Washington University in St. Louis, Mini-Seminar on Compactifications, **online**, October 1, 2020.
- University of Georgia, Algebraic Geometry Seminar, **online**, September 30, 2020.
- Rutgers University, Algebra Seminar, **online**, April 29, 2020.
- KTH Royal Institute of Technology, Fika webinar, **online**, April 23, 2020.
- Texas A&M University, Algebra and Combinatorics Seminar, College Station, February 7, 2020.
- Washington University in St. Louis, Algebraic Geometry Seminar, St. Louis, January 15, 2020.
- Pontificia Universidad Católica de Chile, Algebraic Geometry Seminar, Santiago, January 8, 2020.
- Duke University, Algebraic Geometry Seminar, Durham, August 30, 2019.
- Sapienza University of Rome, Algebra and Geometry Seminar, Rome, June 26, 2019.
- Washington University in St. Louis, Algebraic Geometry Seminar, St. Louis, February 27, 2019.
- University of Connecticut, Algebra Seminar, Storrs, November 14, 2018.
- Universitat de Barcelona, Barcelona Algebraic Geometry Seminar, Barcelona, June 8, 2018.
- Yale University, Yale Algebraic and Tropical Geometry Seminar, April 26, 2018.
- Northeastern University, Geometry, Physics, and Representation Theory Seminar, April 5, 2018.
- Stony Brook University, Algebraic Geometry Seminar, October 4, 2017.
- Colorado State University, FRAGMENT seminar, Fort Collins, May 4, 2017.
- Nagoya University, Algebraic Geometry Seminar, Nagoya, April 17, 2017.
- Kyoto University, Algebraic Geometry Seminar, Kyoto, April 14, 2017.
- Duke University, Algebraic Geometry Seminar, Durham, February 17, 2017.
- Leibniz Universität Hannover, Research Seminar Algebraic Geometry, Hannover, Germany, December 21, 2016.
- University of Utah, Algebraic Geometry Bootcamp, research group talk, Salt Lake City, July 2015.
- Roma Tre University, Algebraic Geometry Seminar, Rome, Italy, June 4, 2015.

Conference Contributed Talks and Poster Presentations

- (Talk) MEGA 2022, Effective Methods in Algebraic Geometry, Pedagogical University of Cracow, Cracow, June 23, 2022.
- (Poster) "Riposte Armonie": Algebraic Geometry in Cetraro 2021 together with Ciro Ciliberto, September 22, 2021.
- (Poster) AGNES, Stony Brook University, **online**, October 24, 2020.
- (Poster) Ideals, Varieties, Applications: Celebrating the Influence of David Cox, Amherst College, June 11, 2019.
- (Poster) AGNES, Brown University, September 22, 2018.

- (Poster) Birational Geometry and Moduli Spaces, INdAM, June 14, 2018.
- (Poster) AGNES, Northeastern University, October 14, 2017.
- (Talk) Joint Mathematics Meetings, AMS Contributed Paper Session on Algebraic Geometry, Atlanta, January 6, 2017.
- (Poster) AGNES, University of Massachusetts Amherst, November 5, 2016.
- (Poster) WAGS, Colorado State University, October 15, 2016.
- (Poster) AGNES, Brown University, October 3, 2015.

Talks/Colloquia for General Audience

- Pizza Seminar (colloquium for master students, graduate students, and last year undergraduates), University of Milan "Statale", June 11, 2024. Title: *Phylogenetic diversity and the geometry of point configurations*.
- Tè di Matematica (department colloquium), Roma Tre University, February 21, 2024. Title: *Phylogenetic diversity and the geometry of point configurations*.
- The "What Is ...?" Graduate Seminar (TWIGS), University of Massachusetts Amherst, February 16, 2021. Title: *What is a secondary polytope?*
- Undergraduate Math Club Talk, University of Massachusetts Amherst, October 10, 2018. Title: *Precalculus of lines and conics in the projective plane*.

Invitations to Programs and Workshops

- Invited participant to the workshop *Moduli and Algebraic Cycles*, Institut Mittag-Leffler, Stockholm, May 29–June 2, 2023.
- Invited participant to the workshop *Explicit Moduli Problems in Higher Dimensions*, Banff International Research Station for Mathematical Innovation and Discovery, Banff, February 26–March 3, 2023.
- Invited participant to the workshop *Toric Degenerations*, Banff International Research Station for Mathematical Innovation and Discovery, Banff, December 4–9, 2022.
- Invited participant to the research program *Moduli and Algebraic Cycles*, Institut Mittag-Leffler, Stockholm, August 30–December 10, 2021.
- Invited participant to the workshop *Positivity of Cycles*, American Institute of Mathematics, San Jose, August 1–5, 2016.

Conferences/Workshops Attended (as non-speaker and non-organizer)

- 2nd Simons Math Summer Workshop: Moduli, Simons Center for Geometry and Physics, Stony Brook University, July 8–19, 2024.
- WAGS, University of California Davis, Davis, October 27–28, 2024.
- Complex Algebraic Geometry and related topics, in honor of Fabrizio Catanese on the occasion of his 70th birthday, Palazzo Feltrinelli, Gargnano del Garda, September 19–23, 2022.
- MEGA 2022, Effective Methods in Algebraic Geometry, Pedagogical University of Cracow, Cracow, June 20–24, 2022.
- Motives and Hodge theory, Institut Mittag-Leffler, Stockholm, October 18–22, 2021.

- "Riposte Armonie": Algebraic Geometry in Cetraro 2021 together with Ciro Ciliberto, Cetraro, September 21–24, 2021.
- K3 surfaces and hyperkähler manifolds, Università degli Studi di Milano, **online**, June 9, 2021.
- AGNES, Stony Brook University, **online**, October 23–25, 2020.
- AGNES, Boston College, Chestnut Hill, September 20–22, 2019.
- Ideals, Varieties, Applications: Celebrating the Influence of David Cox, Amherst College, Amherst, June 10–14, 2019.
- Recent Progress in Moduli Theory, MSRI, Berkeley, May 6–10, 2019.
- AGNES, University of Massachusetts Amherst, Amherst, March 22–24, 2019.
- AGNES, Brown University, Providence, September 21–23, 2018.
- Combinatorial Algebraic Geometry Retrospective Workshop, Fields Institute, Toronto, June 18–22, 2018.
- Birational Geometry and Moduli Spaces, INdAM, Rome, June 11–15, 2018.
- AGNES, Rutgers University, New Brunswick, April 13–15, 2018.
- Georgia Algebraic Geometry Symposium, Georgia Institute of Technology, Atlanta, February 23–25, 2018.
- AGNES, Northeastern University, Boston, October 13–15, 2017.
- Conference on Birational Geometry, Simons Foundation, New York, August 21–25, 2017.
- Georgia Algebraic Geometry Symposium, University of Georgia, Athens, March 3–5, 2017.
- Joint Mathematics Meetings, Atlanta, January 4–7, 2017.
- Thematic Program on Combinatorial Algebraic Geometry, Workshop on Combinatorial Moduli Spaces and Intersection Theory, Fields Institute, Toronto, December 5–9, 2016.
- AGNES, University of Massachusetts Amherst, Amherst, November 4–6, 2016.
- WAGS, Colorado State University, Fort Collins, October 15–16, 2016.
- Georgia Summer Workshop in Algebraic Geometry, University of Georgia, Athens, August 27–28, 2016.
- Thematic Program on Combinatorial Algebraic Geometry, Graduate Summer School on Combinatorial Algebraic Geometry, Fields Institute, Toronto, July 18–22, 2016.
- Spring Southeastern Sectional Meeting, University of Georgia, Athens, March 5–6, 2016.
- Georgia Algebraic Geometry Symposium, Emory University, Atlanta, October 23–25, 2015.
- AGNES, Brown University, Providence, October 2–4, 2015.
- Summer Research Institute on Algebraic Geometry, University of Utah, Salt Lake City, July 13–24, 2015.
- The Graduate Students Bootcamp for the 2015 Algebraic Geometry Summer Research Institute, University of Utah, Salt Lake City, July 6–10, 2015.
- Georgia Algebraic Geometry Symposium, University of Georgia, Athens, October 17–19, 2014.
- Graduate Workshop on Moduli of Curves, Simons Center, Stony Brook University, July 7–18, 2014.
- Georgia Algebraic Geometry Symposium, University of Georgia, Athens, October 18–20, 2013.
- Advanced Course "Compactifying Moduli Spaces", Centre de Recerca Matemàtica, Barcelona, May 27–31, 2013.

Students

- Sara Bellatreccia, undergraduate thesis, defended on October 21, 2024.

Mentoring Experience

- Formal co-supervisor of Simone Pesatori (Andreas Leopold Knutsen's PhD student). Roma Tre University, from 2023.
- Mentoring Lukas Gustafsson (Sandra Di Rocco's PhD student). KTH, Fall 2020.
- Research Experiences for Undergraduates (REU), University of Massachusetts Amherst, Summer 2018. Student: Patrick Lei.

    - For the background we covered Miles Reid's book "*Undergraduate algebraic geometry*".
    - The research project was related to the paper: arXiv:1711.06286

Outreach

- Professione Ricercatore (summer school for high school students), Roma Tre University, June 14, 2024. I gave a lecture titled: *Geometry and phylogenetic diversity*.
- Giornate di Vita Universitaria (High School Visitation Day), Roma Tre University, March 7, 2024. I gave a lecture titled: *Geometry and phylogenetic diversity*.
- Olimpiadi della matematica fase distrettuale (Italian Math Olympiads). February 21, 2024. I helped with registration and proctoring.
- UGA High School Math Tournament, 2016.

    - The day of the tournament I helped with registration, proctoring, and grading.
    - I designed the picture on the tournament T-shirt.
    - I drew most of the pictures for the tournament problems.
    - I helped with writing test problems and solutions.

- UGA High School Math Tournament, 2015. I helped with writing test problems and solutions.

Organizational Experience

- Co-organizer of the conference "Winter Meeting in Algebra and Geometry", Rome, December 18-19, 2024.
- Co-organizer of the conference "New Perspectives on Enriques Surfaces", University of Turin, December 6-7, 2023.
- Co-organizer of the conference Algebraic Geometry in Roma Tre, on the occasion of Sandro Verra's 70th birthday, Roma Tre University, June 14–17, 2022.
- Co-organizer of the Geometry Seminar at Roma Tre University (March 2022 – present).
- I organized the poster session for the conference AGNES at the University of Massachusetts Amherst, March 2019.

Institutional Positions

- Elected Representative of the Researchers in the Academic Senate of Roma Tre University. Since November 27, 2024.

Committee Work

- Hiring committee member for PhD positions at Roma Tre University, July 2024.
- Opponent for the master's thesis defenses of Michele Matteucci (July 6, 2023) and Elisa Scattone (January 22, 2024), Roma Tre University.
- President of the committee for the master's thesis defense of Chiara Consorti (October 25, 2024), Roma Tre University.
- President of the committee for the undergraduate's thesis defense of Alessandro Nenna (October 21, 2024), Roma Tre University.
- Hiring committee member for a postdoctoral position (*assegno di ricerca*) at Roma Tre University, January 2024.
- Hiring committee member for a postdoctoral position at KTH, February 2022.

Service

- Talk at "Open Day Magistrali 2024, Roma Tre University". To promote the Master Degree Program at the Department of Mathematics and Physics.
- Jacob–Cohen–Killam competition, University of Massachusetts Amherst, February 2020. I helped with creating some of the problems, writing the solutions, proctoring, and grading.
- Jacob–Cohen–Killam competition, University of Massachusetts Amherst, March 2019. I helped with creating some of the problems and with grading.

Referral and Reviewing

- Grants.

  - External reviewer of proposals submitted to the 2025 Regular Fondecyt National Projects Competition, Chile.

- Referee for AMS Book Program, Proceedings of the International Symposium on Symbolic and Algebraic Computation (ISSAC), Mathematische Zeitschrift, Springer Conference Proceedings, Advances in Mathematics ($\times 2$), American Mathematical Monthly, Journal of Symbolic Computation, Experimental Mathematics, Simons Conference Proceedings, Mathematische Nachrichten, Abstract for Effective Methods in Algebraic Geometry (MEGA), and Science China Mathematics.
- Reviewer for *AMS Mathematical Reviews* (2019 – present). 11 papers reviewed: MR3904797, MR3934628, MR4001812, MR4010872, MR4047698, MR4132605, MR4302164, MR4405649, MR4500355, MR4604540, MR4675060 (to appear).

Programming Languages/Mathematics Software

C, Python/Mathematica, LRS, Macaulay2, SageMath

Languages

- Italian (native language)
- English (fluent, written and spoken)

- Swedish (A1 level, certified course and exam at KTH)
- Japanese (A1 level, currently taking A2 level class)
  Certification: Passed JLPT level N5

Place and date:
Rome, 05/02/2025