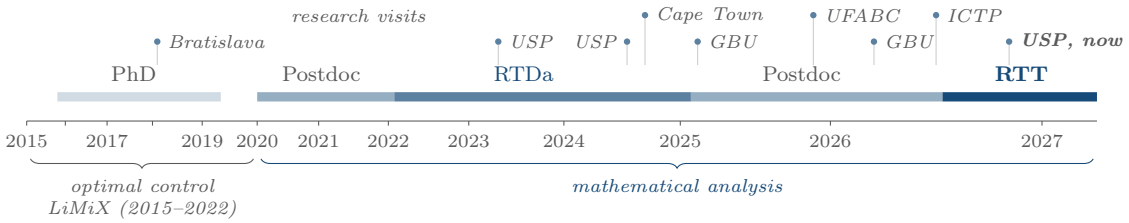
Dario Corona, PhD

Tenure-Track Researcher in Mathematical Analysis
School of Science and Technology, University of Camerino, Italy
Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy

Email: dario.corona@unicam.it · Web: www.dariocorona.it · ORCID: 0000-0002-7575-710X

Scopus: 161 citations, h-index 7
Google Scholar: 231 citations, h-index 8
MathSciNet profile

Career at a Glance



Academic Positions

1 Aug 2026 – Present
Tenure-Track Researcher (RTT)
University of Camerino, Italy
Project: "Metodi variazionali e analisi geometrica per problemi non lineari e applicazioni tecnologiche"

1 Feb 2025 – 31 Jul 2026
Postdoctoral Researcher
University of Camerino, Italy
Project: "Topological and Variational Methods in PDE and Dynamical Systems"
Advisor: Prof. Roberto Giambò

1 Feb 2022 – 31 Jan 2025
Research Assistant Professor – RTDa
University of Camerino, Italy
Project: "Mathematical Models for Optimal Controllers in Wind Farms"
Advisor: Prof. Fabio Giannoni

1 Jan 2020 – 31 Jan 2022
Postdoctoral Researcher
University of Camerino, Italy
Project: "Sistemi dinamici e applicazioni in ambito energetico"
Advisor: Prof. Maria Letizia Corradini

1 May 2019 – 30 Nov 2019
Research Scholarship
University of Camerino, Italy
Project: "Advanced control design for fatigue alleviation for wind turbine"
Advisor: Prof. Maria Letizia Corradini

Visiting Positions and Research Stays

6 – 26 Nov 2026
Universidade de São Paulo, Brazil
Research stay at the Instituto de Matemática e Estatística (in progress).

25 Mar – 6 Apr 2026
Great Bay University, Guangdong, China
Invited research visit, seminars and collaboration.

17 Nov – 13 Dec 2025 **Universidade Federal do ABC**, São Paulo, Brazil
Invited research visit, seminars and collaboration with Prof. Stefano Nardulli.

17 – 27 Feb 2025 **Great Bay University**, Guangdong, China
Invited research visit, seminars and collaboration.

20 – 27 Sep 2024 **University of Cape Town**, South Africa
Invited research visit and seminars with Prof. Francesco Russo

25 Jun – 30 Aug 2024 **Universidade de São Paulo**, Brazil
Visiting Researcher at the Instituto de Matemática e Estatística.
Collaborators: Prof. Paolo Piccione, Prof. Stefano Nardulli, Dr. João Henrique Andrade.

1 Feb – 31 Jul 2023 **Universidade de São Paulo**, Brazil
Visiting Researcher at the Instituto de Matemática e Estatística.
Host: Prof. Paolo Piccione.

1 Feb – 1 May 2018 **Slovak University of Technology**, Bratislava, Slovakia
Visiting PhD student at Department of Information Engineering and Process Control
Host: Prof. Ing. Michal Kvasnica

Education

6 May 2019 **PhD in Mathematics**,
University of Camerino, Italy
Thesis: "Decomposition of Optimal Tracking Controllers for Weakly Dual Redundant Systems"
Advisors: Prof. Maria Letizia Corradini and Prof. Roberto Giambò

15 Apr 2015 **Master's Degree in Mathematics and Applications**,
University of Camerino, Italy
Final grade: 110/110 *summa cum laude*
Thesis: "A Mathematical Model for the Development of a Lower Extremity Exoskeleton"

3 Oct 2012 **Bachelor's Degree in Mathematics and Applications**,
University of Camerino, Italy
Final grade: 110/110 *summa cum laude*

Scholarships and Awards

2026 **MSCA Postdoctoral Fellowship proposal – Seal of Excellence** (Horizon Europe)
Project: "Diffuse Interfaces in Manifolds and Metric Spaces" (DIMMS)
Score: 93.8/100 – Host institution: University of Pisa

2026 **MSCA Seal of Excellence@UNIPI 2026**, University of Pisa
Awarded a two-year research contract (plus €10,000 research budget) for the project DIMMS, funded by the University of Pisa for MSCA Seal of Excellence holders. Declined, as already holding a tenure-track position at the University of Camerino.

25 Jun – 25 Jul 2024 **INdAM Scholarship for Research Abroad**
Research stay at the Universidade de São Paulo, Brazil.

2022 **Kovalevskaya Grant**, UMI – INDAM
Grant awarded for participation at the ICM 2022.

1 Mar – 30 Aug 2014 **Research Scholarship**, University of Camerino, Italy
Research project on lower-limb exoskeletons for disabled people, funded by MES S.p.A.

2009 – 2012 **INdAM Scholarship**, Istituto Nazionale di Alta Matematica
National three-year scholarship for bachelor students in Mathematics.

Industry and Professional Experience

Spin-off and Technology Transfer

2015 – 2022 **Founding Partner and CEO**, LiMiX Srl (website: limix.it)
Spin-off company of the University of Camerino, Italy.
Through the spin-off Limix I translated academic research into technological products with social impact. The main project was **Talking Hands**, a wearable device for gesture recognition designed to support people with speech or language impairments. After the start-up phase, Limix was successfully acquired.

Patents

2016 *Talking Hands*: N. 102016000038807 granted by MISE (Ministero dello Sviluppo Economico, Italy).

2020 *Apparato di acquisizione di immagini di documentazione cartacea*: N. 102020000006358 granted by MISE.

Funded Projects

24 Sep 2020 – 16 Jun 2021 POR Marche FESR 2014–2020
"Promozione della ricerca industriale e dello sviluppo sperimentale negli ambiti della specializzazione intelligente". Coordinator of the project: *E-GLOVE: Enhanced Gesture transLation for improving Vocal Experiences*. Co-funded by the European Union (ERDF), and Regione Marche, with a total grant of **€268,578.40**. Project website

1 Feb 2018 – 31 Jul 2018 H2020 Project – SME Instrument Phase 1
EU Grant No. 808764. Project title: *Talking Hands*. Coordination of the technical activities and feasibility study. Funded by the European Commission with **€50,000**. Project website

15 Mar 2017 – 30 Jun 2018 POR Marche FESR 2014–2020
"Sostegno allo sviluppo ed al consolidamento di start up ad alta intensità di applicazione di conoscenza"
Coordinator of the project: *Talking Hands*. Co-funded by the European Union (ERDF) and Regione Marche, with a total grant of **€100,000**.

Awards

2019 **Premio ANGI** (Associazione Nazionale Giovani Innovatori), awarded to the spin-off company Limix Srl as one of the most promising Italian innovations in technology and social impact.

2019 **Seal of Excellence** (SME Instrument Phase 2), awarded by the European Commission to the project *Talking Hands*.

2018 **Finalist of Chivas Venture**, international competition for start-ups with high social impact.

2016 **R.O.M.E. Prize**, awarded to the European maker project with the highest social impact (**$100,000**).

2016 **E-Capital**, regional business plan competition.

2015 **StartCup Marche**, regional business plan competition.

Other Professional Experience

Sep 2021 – Present **Teacher of Mathematics**, IPSIA Don Pocognoni, Matelica, Italy
Currently on leave due to postdoctoral appointments at the University of Camerino.

Aug 2021 **Teacher Qualification at secondary level**, A026 – Mathematics
First place in the open examination for the Marche region.

Publications

In the early years of my research activity, I worked on Optimal Control Theory and Gesture Recognition. My current research focuses on Mathematical Analysis, with interest in **Hamiltonian Systems**, **Calculus of Variations**, and **Geometric Analysis**.

Preprints

31 · D. Corona, S. Nardulli, R. Oliver-Bonafoux, G. Orlandi, "Multiplicity of solutions for Gross–Pitaevskii equations on Riemannian manifolds", *Preprint*, (2025)
arXiv:2511.21349

Journal Papers – Mathematical Analysis and Geometry

30 · J.H. Andrade, D. Corona, S. Nardulli, P. Piccione, R. Ponciano, "From bubbles to clusters: Multiple solutions to the Allen–Cahn system", *Journal of Differential Equations*, vol. 464, art. 114189, (2026)
doi:10.1016/j.jde.2026.114189

29 · D. Corona, A. Della Corte, M. Farotti, "Dynamical properties of critical exponent functions", *Palestine Journal of Mathematics*, (2025)
pjm.ppu.edu/paper/2266

28 · D. Corona, S. Nardulli, R. Oliver-Bonafoux, G. Orlandi, P. Piccione, "Multiplicity results for mass constrained Allen–Cahn equations on Riemannian manifolds with boundary", *Mathematische Annalen*, vol. 392, pp. 3479–3524, (2025)
doi:10.1007/s00208-025-03178-7

27 · D. Corona, R. Giambò, P. Piccione, "A note on the regularity and the existence of Riemannian splines", *Mathematics of Control, Signals, and Systems*, vol. 37, pp. 661–695, (2025)
doi:10.1007/s00498-025-00414-y

26 · D. Corona, R. Giambò, "Global Models of Collapsing Scalar Field: Endstate", *Symmetry*, vol. 16, art. 583, (2024)
doi:10.3390/sym16050583

25 · D. Corona, R. Giambò, O. Luongo, "Motion of test particles in quasi anti-de Sitter regular black holes", *International Journal of Geometric Methods in Modern Physics*, vol. 21, art. 2440019, (2024)
doi:10.1142/S021988782440019X

24 · E. Caponio, D. Corona, R. Giambò, P. Piccione, "Fixed energy solutions to the Euler–Lagrange equations of an indefinite Lagrangian with affine Noether charge", *Annali di Matematica Pura e Applicata*, vol. 203, pp. 1819–1850, (2024)
doi:10.1007/s10231-024-01424-4

23 · V. Benci, D. Corona, S. Nardulli, L. E. Osorio Acevedo, P. Piccione, "Corrigendum to: Lusternik–Schnirelman and Morse Theory for the Van der Waals–Cahn–Hilliard equation with volume constraint", *Nonlinear Analysis*, vol. 238, art. 113389, (2024)
doi:10.1016/j.na.2023.113389

22 · D. Corona, A. Della Corte, "Mixing properties of erasing interval maps", *Ergodic Theory and Dynamical Systems*, vol. 44, pp. 408–431, (2024)
doi:10.1017/etds.2023.16

21 · D. Corona, A. Della Corte, F. Giannoni, "A non-autonomous variational problem describing a nonlinear Timoshenko beam", *SIAM Journal on Mathematical Analysis*, vol. 55, pp. 4664–4694, (2023)
doi:10.1137/22M1493653

20 · D. Corona, R. Giambò, F. Giannoni, P. Piccione, "On the relative category in the brake orbits problem", *Topological Methods in Nonlinear Analysis*, (2023)
doi:10.12775/TMNA.2022.057

19 · E. Caponio, D. Corona, "A variational setting for an indefinite Lagrangian with an affine Noether charge", *Calculus of Variations and Partial Differential Equations*, vol. 62, art. 39, (2023)
doi:10.1007/s00526-022-02379-1

18 · D. Corona, F. Giannoni, "Brake orbits for Hamiltonian systems of classical type via Finsler geodesics", *Advances in Nonlinear Analysis*, vol. 11, pp. 1223–1248, (2022)

doi:10.1515/anona-2022-0222

17 · D. Corona, A. Della Corte, "The critical exponent functions", *Comptes Rendus Mathématique*, vol. 360, pp. 315–332, (2022)
doi:10.5802/crmath.286

16 · D. Corona, "A multiplicity result for orthogonal geodesic chords in Finsler disks", *Discrete and Continuous Dynamical Systems*, vol. 41, pp. 5329–5357, (2021)
doi:10.3934/dcds.2021079

15 · D. Corona, "A multiplicity result for Euler–Lagrange orbits satisfying the conormal boundary conditions", *Journal of Fixed Point Theory and Applications*, vol. 22, art. 60, (2020)
doi:10.1007/s11784-020-00795-4

14 · D. Corona, F. Giannoni, "A New Approach for Euler–Lagrange Orbits on Compact Manifolds with Boundary", *Symmetry*, vol. 12, art. 1917, (2020)
doi:10.3390/sym12111917

Journal Papers – Control Theory and Applications

13 · M. L. Corradini, G. Ippoliti, G. Orlando, D. Corona, "A data-driven model-free adaptive controller with application to wind turbines", *ISA Transactions*, vol. 136, pp. 267–274, (2023)
doi:10.1016/j.isatra.2022.11.002

12 · F. Pezzuoli, D. Corona, M. L. Corradini, "Recognition and classification of dynamic hand gestures by a wearable data-glove", *SN Computer Science*, vol. 2, art. 5, (2021)
doi:10.1007/s42979-020-00396-5

11 · F. Pezzuoli, D. Tafaro, M. Pane, D. Corona, M. L. Corradini, "Development of a new sign language translation system for people with autism spectrum disorder", *Advances in Neurodevelopmental Disorders*, vol. 4, pp. 439–446, (2020)
doi:10.1007/s41252-020-00175-6

10 · D. Corona, A. Cristofaro, D. Rotondo, "Reachability and stabilization of scheduled steady-states for LPV single-input systems", *Journal of the Franklin Institute*, vol. 356, pp. 4478–4495, (2019)
doi:10.1016/j.jfranklin.2019.04.007

9 · D. Corona, A. Cristofaro, "Optimality principles and decomposition of tracking controllers for weakly dual redundant systems", *Optimal Control Applications and Methods*, vol. 39, pp. 1451–1466, (2018)
doi:10.1002/oca.2420

Conference Papers

8 · F. Pezzuoli, D. Corona, M. L. Corradini, "Dynamic gestures recognition through a low-cost data glove", *2020 IEEE International Conference on Human–Machine Systems (ICHMS)*, pp. 1–3, (2020)
doi:10.1109/ICHMS49158.2020.9209424

7 · D. Corona, A. Cristofaro, "Optimal controlled steady-states for multi-input underactuated systems", *18th European Control Conference (ECC)*, pp. 3734–3739, (2019)
doi:10.23919/ECC.2019.8795796

6 · F. Pezzuoli, D. Corona, M. L. Corradini, "Improvements in a Wearable Device for Sign Language Translation", *Advances in Human Factors in Wearable Technologies and Game Design (AHFE)*, pp. 70–81, (2019)
doi:10.1007/978-3-030-20476-1_9

5 · D. Corona, A. Cristofaro, "Optimal closed-loop tracking controllers for weakly dual redundant systems with periodic references", *IEEE Conference on Decision and Control (CDC)*, pp. 2433–2438, (2018)
doi:10.1109/CDC.2018.8619169

4 · D. Corona, A. Cristofaro, D. Rotondo, "Optimizing output regulation for a class of underactuated LPV systems", *Mediterranean Conference on Control and Automation (MED)*, pp. 135–140, (2017)
doi:10.1109/MED.2017.7984107

3 · D. Corona, A. Cristofaro, M. L. Corradini, "Optimal output regulation for underactuated systems with quasiperiodic references", *IFAC World Congress, IFAC-PapersOnLine*, vol. 50, pp. 3654–3659, (2017)

doi:10.1016/j.ifacol.2017.08.712

2 · F. Pezzuoli, D. Corona, M. L. Corradini, A. Cristofaro, "Development of a wearable device for sign language translation", *International Workshop on Human-Friendly Robotics (HFR 2017)*, pp. 115–126, (2017)
doi:10.1007/978-3-319-89327-3_9

1 · D. Corona, A. Cristofaro, "Some remarks on optimal output regulation for weakly dual redundant plants", *Mediterranean Conference on Control and Automation (MED)*, pp. 1205–1211, (2016)
doi:10.1109/MED.2016.7536028

Research Activities

Research Projects and Memberships

As Principal Investigator

19 Jan – 9 Feb 2024 — **GNAMPA 2024 – Professori Visitatori Program**
PI of the visiting professor project hosting Prof. Stefano Nardulli (UFABC, Brazil) at the University of Camerino.
Funded by INdAM–GNAMPA through the *Professori Visitatori* programme.

13 May 2022 – 31 Aug 2023 — **GNAMPA 2022 Project**
PI of the INdAM–GNAMPA project *"Metodi variazionali per Lagrangiane con bassa regolarità e Lagrangiane indefinite"*, funded through a competitive call. Total funding: € 3,000.00.
Participants: E. Caponio, F. Giannoni, R. Giambò, A. Masiello.

As Participant or Research Collaborator

14–26 Jul 2026 — **ICTP–INdAM Research in Pairs Programme 2026**
Participant in a collaborative research project with Ebtsam H. Taha and Erasmo Caponio.
Research stay at ICTP, Trieste, funded by ICTP and INdAM through a competitive call.

Feb 2025 – Present — **FAPESP Jovem Pesquisador Project 2021/05256-0**
Research collaborator in the FAPESP-funded project *"Geometric Variational Problems: Existence, Regularity, and Geometric Characterization of Solutions"*, coordinated by Prof. S. Nardulli (UFABC, Brazil). Project link

Oct 2023 – Oct 2025 — **SPRINT FAPESP Project 23/08246-0**
Participant of the research group at the University of Camerino, with Italian PI Prof. Fabio Giannoni, of the project *"Advancing New Approaches to the ACH Equation: A Research Partnership between São Paulo and UNICAM"*. Project link

1 Jul 2023 – Present — **FAPESP Project 2022/16097-2**
Research collaborator in the FAPESP-funded project *"Modern Methods in Differential Geometry and Geometric Analysis"*, coordinated by Prof. Paolo Piccione (Universidade de São Paulo, Brazil). Project link

1 May 2023 – 30 Sep 2024 — **GNAMPA Project 2023**
Research collaborator in the project *"Biliardi galattici rifrattivi: dalla teoria dei Sistemi Dinamici alla Meccanica Celeste"*, coordinated by Irene De Blasi. Funded by INdAM–GNAMPA.

1 Jan 2020 – 31 Dec 2022 — **FAR 2019 – University of Camerino**
Research collaborator in the University of Camerino funded project *"Talking Hands: from a prototype to an effective and usable device"*, coordinated by Prof. Maria Letizia Corradini.

1 Jan 2020 – 31 Dec 2020 — **PRIN 2015 – SOFTWIND Project**
Postdoctoral researcher in the project *"SOFTWIND: Smart Optimized Fault-Tolerant Wind Integrated Dynamics"*, funded by the Italian Ministry of University and Research; PI: Prof. M. Letizia Corradini.

Conference Organization

29 May 2026 — **Mini–Symposium**
"Nonlinear PDEs describing front propagation, geometric problems and singularities", within the International Conference on Elliptic and Parabolic Problems: GAETA-2026, Gaeta, Italy. Official site

Jan – Jul 2025 — **IRGTADS Seminars**
International Research Group in Topology, Algebra, and Dynamical Systems, Co-organizer of the online seminar series. Seminar series website

19 – 23 Aug 2024 — **Bridging Borders: International Geometric Analysis in São Paulo**
Member of the organizing committee.
Instituto de Matemática e Estatística, Universidade de São Paulo, Brazil. Conference website

Talks and Seminars

26 talks since 2020, including 5 invited talks at international conferences and 17 invited seminars in 5 countries (Italy, Brazil, China, South Africa, Germany).

Invited Talks at Conferences

24 Jul 2025 — MCA 2025, Mathematical Congress of the Americas, Miami, USA
"Multiplicity results for the Allen–Cahn equation in compact Riemannian manifolds"

24 Jun 2025 — INdAM Workshop "Old and New Trends in Mathematical Collaboration between Brazil and Italy", Rome, Italy
"A multiplicity result for the Allen–Cahn equation in manifolds with boundary"

27 Aug 2024 — CLAM, Congresso Latino-Americano e do Caribe de Matemática, João Pessoa, Brazil
"Multiplicity results for the Allen–Cahn equation"

19 Apr 2023 — La ricerca italo-brasiliana di fronte alle sfide della matematica contemporanea, Brasília, Brazil
"On the multiplicity of the brake orbits"

12 May 2022 — First Adriatic Meeting on Nonlinear Differential Equations, Ancona, Italy
"On the existence and multiplicity of the brake orbits"

Contributed Talks at Conferences

29 May 2026 — International Conference on Elliptic and Parabolic Problems, Gaeta, Italy
"Multiplicity of Solutions for Gross–Pitaevskii equations on Riemannian Manifolds"

12 Feb 2026 — Convegno Nazionale di Calcolo delle Variazioni, Riccione, Italy
"Multiplicity of Solutions for Gross–Pitaevskii equations on Riemannian Manifolds"

11 Nov 2022 — 1st QFNU–UNICAM Conference on Pure and Applied Mathematics, Camerino, Italy
"On the multiplicity of the brake orbits"

10 Nov 2022 — 1st QFNU–UNICAM Conference on Pure and Applied Mathematics, Camerino, Italy
"A variational setting for indefinite Lagrangians with an affine Noether charge"

Invited Seminars

29 Jun 2026 — NFROGS, University of Verona, Verona, Italy
"Multiplicity of Solutions for the Allen–Cahn and Gross–Pitaevskii equations"

3 Apr 2026 — Great Bay University, Dongguan, China
"Multiplicity of Solutions for Gross–Pitaevskii equations on Riemannian Manifolds"

1 Apr 2026 — Great Bay University, Dongguan, China
"Cohomogeneity One Minimal Hypersurfaces via Degenerate Geodesics"

30 Mar 2026 — Henan Normal University, Xinxiang, China
"Multiplicity of Solutions for Gross–Pitaevskii equations on Riemannian Manifolds"

27 Mar 2026 — North China University of Water Resources and Electric Power, Zhengzhou, China
"Multiplicity of Solutions for Gross–Pitaevskii equations on Riemannian Manifolds"

12 Dec 2025 — Universidade de São Paulo, São Paulo, Brazil
"Cohomogeneity One Minimal Hypersurfaces via Degenerate Geodesics"

20 Feb 2025	Great Bay University, Dongguan, China "Multiplicity results for the Allen–Cahn equation in compact Riemannian manifolds"
9 Oct 2024	Università degli Studi dell'Aquila, L'Aquila, Italy "On the multiplicity of the brake orbits"
25 Sep 2024	University of Cape Town, Cape Town, South Africa "The Critical Exponent Functions"
30 Apr 2024	University of Cape Town, South Africa (online) "A multiplicity result for the Allen–Cahn equation"
11 Apr 2024	Università degli Studi di Verona, Verona, Italy "Multiplicity results for the Allen–Cahn equation"
19 Jul 2023	Universidade Federal do ABC, São Paulo, Brazil "On the multiplicity of the brake orbits"
2 Jun 2023	Universidade de São Paulo, São Paulo, Brazil "On the multiplicity of the brake orbits"
26 May 2023	Universidade Federal de São Carlos, São Carlos, Brazil "On the multiplicity of the brake orbits"
16 Mar 2023	Universidade Federal do ABC, São Paulo, Brazil "The Critical Exponent Functions"
14 Feb 2022	University of Bologna, Bologna, Italy "The Critical Exponent Functions"
21 Jan 2020	Ruhr-Universität Bochum, Bochum, Germany "Orthogonal Geodesics Trajectories in Manifolds with Boundary"

Teaching Experience

Advising

8 May 2023 – Present	**PhD Co-supervisor** Bruno Almeida, Universidade Federal do ABC, Brazil.

PhD Courses and International Teaching

Jul 2024	**Erasmus+ Staff Mobility Lecturer**, Universidade de São Paulo, Brazil Lecturer of "Critical Point Theory in Geometric Analysis" (16h), attended by PhD students from USP and Erasmus students from the University of Camerino.
A.Y. 2021/2022	**PhD Course Lecturer**, School of Advanced Studies, UNICAM, Italy Lecturer of the PhD course "An Introduction to KAM Theory" (21h).
2021	**External PhD Course Lecturer**, Universidade de São Paulo, Brazil Lecturer of the PhD course "Critical Point Theory" (30h).

University Teaching

All the courses below were taught at the University of Camerino, Italy.

2025/26	Adjunct Professor of **Calculus of Variations**, M.Sc. in Mathematics and Applications (42h). Adjunct Professor of **Analysis 2**, B.Sc. in Mathematics and Applications (49h). Pre-courses in Mathematics and Logic for UNICAM new students (20h). PF60 module in Analysis and Probability for prospective secondary-school teachers (5h).
2024/25	Adjunct Professor of **Calculus of Variations**, M.Sc. in Mathematics and Applications (42h). Professor of **Analysis 3**, B.Sc. in Mathematics and Applications (42h). Pre-courses in Mathematics and Logic for UNICAM new students (17h); PF60 module in Analysis and Probability for prospective secondary-school teachers (10h).
2023/24	Professor of **Calculus of Variations**, M.Sc. in Mathematics and Applications (42h). Professor of **Analysis 3**, B.Sc. in Mathematics and Applications (42h). Pre-courses in Mathematics and Logic for UNICAM new students (15h). PF60 module in Analysis and Probability for prospective secondary-school teachers (5h).

2022/23	Professor of **Calculus of Variations**, M.Sc. in Mathematics and Applications (42h). Professor of **Analysis 3**, B.Sc. in Mathematics and Applications (42h). Pre-courses in Mathematics and Logic for UNICAM new students (15h).
2021/22	Adjunct Professor of **Analysis 3**, B.Sc. in Mathematics and Applications (42h). Adjunct Professor of **Analysis 2**, B.Sc. in Physics (17h). Pre-courses in Mathematics and Logic for UNICAM new students (15h).
2020/21	Adjunct Professor of **Analysis 3**, B.Sc. in Mathematics and Applications (42h). Adjunct Professor of **Analysis 2**, B.Sc. in Physics (17h). Pre-courses in Mathematics and Logic for UNICAM new students (9h).
2019/20	Adjunct Professor of **Analysis 3**, B.Sc. in Mathematics and Applications (42h). Exercise lectures: Analysis 1 (25h), Analysis 2 (14h), and Mathematical Methods for Physics (25h).
2018/19	Adjunct Professor of **System Analysis**, B.Sc. in Mathematics and Applications (42h). Exercise lectures: Analysis 2 (25h) and Mathematical Methods for Physics (25h).
2017/18	Exercise lectures: Analysis 2, B.Sc. in Physics (25h).
2016/17	Teaching activities in **Programming**, B.Sc. in Mathematics and Applications (30h). Exercise lectures: Analysis 1 (25h) and Analysis 2 (25h).

Theses Supervision

I supervised Master's and Bachelor's theses in Mathematics at the University of Camerino.

Master's Theses

2024	F. Scarabotti, *A multiplicity result for the Allen–Cahn equation*
2022	F. Polidori, *Critical Point Theory and Geodesical Connectedness in Lorentzian Manifolds* R. Rapini, *Diffeomorphisms of the Circle and KAM Theory*

Bachelor's Theses

Supervisor of 25 B.Sc. theses in Mathematics (2018–2026). Full list available at www.dariocorona.it.

Third Mission

Mar 2022 – Present	**Delegate for Student Orientation and Outreach** Mathematics Section, School of Science and Technology, University of Camerino Coordination of incoming and outgoing orientation activities for students in Mathematics.

Educational Projects in Schools

Feb – Apr 2026	**Lecturer**, University of Camerino, Italy Piano Lauree Scientifiche (PLS), in collaboration with Liceo Scientifico "B. Rosetti", San Benedetto del Tronto, Italy. Activities: *Problem Solving* and *Il potere dell'Infinito: storia del Calcolo Infinitesimale.*
Oct – Nov 2024	**External Expert**, I.S.S. Volterra-Elia, Ancona, Italy Next Generation EU project "Think Stem: Potenziamo Insieme". Module: "Olimpiadi della Matematica" (20h).
Feb – Jun 2019	**External Expert and Tutor**, I.S.I.S.S. Magarotto, Rome, Italy PON/FSE project "10.6.6 A-FSEPON-LA-2017-27". Module: "Talking Hands: i segni prendono voce" (108h).

Science Communication and Public Engagement

During my professional and academic career, I have given several public talks. The main ones are listed below.

2021	**Famelab – Talking Science**, competition in scientific communication. Video 1 and Video 2.
2021	**Sharper Night – La Notte dei Ricercatori**, speech entitled *"Ricerca e Disabilità"*.
2019	**TEDxAscoliPiceno**, speech entitled *"Il primo obiettivo della tecnologia"*. Video link.
2019	**Forum PA** (Italian National Forum of Public Administration), Rome, invited by the Undersecretary for Family and Disability.
2018	**Makers Town**, Brussels, showcasing the Town of the Future and future challenges in policy, private investment and education.
2018	**SUCCEED**, Brussels, initiative on financial education and entrepreneurship development.

Scientific Outreach

Talks and outreach activities in Italian high schools aimed at presenting advanced mathematical topics to a broad audience, including:

- *Isoperimetria: dalla leggenda alla ricerca moderna*
- *Dallo studio del calore a Shazam: breve storia delle serie di Fourier*
- *Il potere dell'Infinito: breve storia del Calcolo Infinitesimale*
- *Tutta questione di... intelligenza: costruiamo macchine che imparano e dimostrano*
- *I Mestieri dei Matematici*

Languages

Italian	Native speaker
English	Fluent. Cambridge First Certificate (B2).
Portuguese	Fluent. CELPE-Bras certificate (B1).