

University Academic Curriculum Vitae

Personal information Name SARA BAGOSSÌ
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Present appointment

- Junior researcher (RTD-A) in Mathematics Education
At: Free University of Bozen, Faculty of Education.
SSD: MATH-01/B – Didactics and history of mathematics.
Supervisor: Prof. Giorgio Bolondi, (Free Univ. Bozen, Italy) until 30-09-2025
Supervisor: Prof. Federico Corni, (Free Univ. Bozen-Bolzano, Italy) since 01-10-2025

Education since leaving school

- 19/02/2025, National habilitation for associate professor for the GSD 01/MATH-01 - Logica Matematica, Didattica e Storia Della Matematica; SSD MATH-01/B - Didattica e storia della matematica.
- 01/09/2023-31/10/2024, Post-doctorate in Mathematics Education (II)
At: Università di Torino, Department of Mathematics G. Peano.
Title of the project: TransEET - Design and analysis of experimentation of interdisciplinary STEAM activities using emerging technologies
Supervisor: Prof. Ornella Robutti, (Univ. Torino, Italy)
- 01/01/2022-31/08/2023, Post-doctorate in Mathematics Education (I)
At: Ben-Gurion University of the Negev, Faculty of Humanities and Social Sciences, Department of Science and Technology Education.
Supervisor: Dr Osama Swidan, (Ben-Gurion Univ., Israel)
- 24/02/2022, Ph.D. in Mathematics
Obtained: Università di Modena e Reggio Emilia in convention with Università degli Studi di Ferrara and Università degli Studi di Parma.
Title of the dissertation: Second-order covariation: an analysis of students' reasonings and teacher's interventions when modelling real phenomena [MAT/04 – Mathematics Education]
Retrievable from: <https://iris.unimore.it/handle/11380/1265204>
Supervisor: Prof. Ferdinando Arzarello, (Univ. Torino, Italy).
Co-supervisor: Prof. Maria Cristina Patria, (Univ. Ferrara, Italy).
- 27/09/2018, Master Degree in Mathematics (110/110 cum laude).
Obtained: Università Cattolica del Sacro Cuore, Brescia.
Title of the dissertation: A model for fibre-reinforced materials with statistical orientation of fibers applied to a pennate skeletal muscle tissue [MAT/07 – Mathematical Physics]
Supervisor: Prof. Alessandro Musesti, (Univ. Cattolica, Italy).
Co-supervisor: Prof. Giulia Giantesio, (Univ. Cattolica, Italy).
- 11/07/2016, Bachelor Degree in Mathematics (110/110 cum laude)
Obtained: Università Cattolica del Sacro Cuore, Brescia.
Title of the dissertation: An introduction to micropolar fluids [MAT/07 – Mathematical Physics]
Supervisor: Prof. Giulia Giantesio, (Univ. Cattolica, Italy).

Professional experience

- Professional development course on the New National Guidelines addressed to primary school teachers at Antonietti Institute, Iseo, Brescia (March-May 2026, 10 hours).
- Expert for the professional development program *Collaboratorio*, organized by the Free University of Bozen and addressed to primary school teachers and pre-service teachers. In collaboration with G. Bolondi and M. Pugliese, a.y. 2025-26, 12 hours.
- Design of tasks related to the cultural-scientific area for the Entry test to the Faculty of Education. Università Cattolica del Sacro Cuore (July 2025, 3

- hours).
- Laboratory activities for the *Project STEM* for the University of Bergamo. The laboratories took place in a junior high school at Pontirolo Nuovo (April 2025, 8 hours).
 - Fellowship within Piano Lauree Scientifiche (PLS) - Mathematics for Università di Torino (2023-2024, 100 hours). Teacher educator for the teacher professional development program *Scuole Secondarie Potenziate in Matematica* – SSPM (Mathematics Enhanced Secondary Schools) at the University of Turin as part of the national project Liceo Matematico.
 - *Varia tu che covario anch'io*, professional development course addressed to Italian teachers, promoted by Università degli Studi di Ferrara, in collaboration with: Prof. F. Arzarello, Dr F. Ferretti, Dr E. Taranto, Dr C. Giberti, Dr G. Lisarelli and Teacher S. Beltramino, online, 2021-2022.
 - Realization of material for Massive Online Open Course (MOOC) on Physical-Mathematical Models administered by the University of Turin. The material was created in collaboration with Prof. F. Arzarello, S. Beltramino & K. Savioli, 2019-2020, and can be viewed at: <https://sway.office.com/l1BBSgGEAw2IBjrA?ref=Link>
 - Intensive summer courses of Mathematics and Physics for Liceo N. Copernico in Brescia (July 2021, 9 hours; July 2019, 20 hours).
 - Tutor of Piano Lauree Scientifiche (PLS) - Mathematics for Università degli Studi di Ferrara (2020-2021, 40 hours; 2019 – 2020, 80 hours).
 - Tutor of Piano Lauree Scientifiche (PLS) - Biology for Università degli Studi di Ferrara (2020-2021, 30 hours; 2019 – 2020, 40 hours).
 - Mathematical trainings addressed to secondary school students in preparation for mathematical challenges, Università Cattolica del Sacro Cuore, Brescia (January 2020, January 2019).
 - Tutor of Piano Lauree Scientifiche (PLS) for Università Cattolica del Sacro Cuore, Brescia (September 2017 – May 2018).

Third mission

- Laboratory “Augmented mathematics” organized by the University of Modena and Reggio Emilia within the initiative “La matematica che ti aspetta!”. In collaboration with C. Giberti and L. Sala (Modena, February 4th, 2026).
- School-career guidance at Liceo M. Curie (Pinerolo, TO), teacher S. Beltramino, 9th-grade class (2023-24, 6 hours).
- Intervention at the vocational event “Laurea in tasca...e ora?” organized by InForMates (students’ association) from Università Cattolica di Brescia (Brescia, Italy, March 9th, 2024).
- Interactive exhibition “Learning with Augmented Reality” organized by the Department of Science and Technology Education in collaboration with the Central Library of Ben-Gurion University (Ben-Gurion University, Israel, June 14th, 2023).
- Pre-university orientation course addressed to students interested in Mathematics Degree (online, Università Cattolica di Brescia, December 1st, 2020).
- Presenter of the laboratory “Covariatione nella modellizzazione di fenomeni [Covariation in the modelling of real phenomena]” for the Stage in Mathematics held at Università di Ferrara (Ferrara, June 11th, 2021; June 12th, 2020).
- Presenter of the laboratory “L'altra faccia della geometria: laboratorio sulle sfere di Lénárt [The other side of geometry: laboratory on Lénárt's spheres]” for the Stage in Mathematics held at Università degli Studi di Ferrara (Ferrara, June 12th, 2019).
- Presenter of the laboratory “Penna, carta, forbici e... Solidi regolari! [Pen, paper, scissors and... regular solids!]” for HowIMetScience! 2019 (Ferrara, May 18th, 2019).
- MEETmeTONIGHT (September 2017, September 2018): Theme days devoted to maths and physics during which Università Cattolica di Brescia is open to the public and several thematic stands are set up. Some of the main activities proposed are related to Zometool, soap film, non-newtonian fluids and tessellations.
- Service Learning (May 2018): Pilot project of volunteering in collaboration

with Università Cattolica and Spedali Civili of Brescia; this project of volunteering was addressed to children of the middle and high school admitted for eating or psychological disorders in the neuropsychiatry unit and cancer in the oncology unit. These laboratories focused on mathematical topics like platonic solids and statistical main concepts. The purpose was to reveal the funny side of math through interactive and practical activities.

- Mathematical Challenges (March 2017, March 2018): Cooperation in the organization of mathematical challenge addressed to children of the secondary school.

Academic teaching

Ph.D. lectures

- Lecturer for the Ph.D. course entitled “Going beyond formal teaching and learning: theoretical and methodological issues”, University of Turin, June 2025 (2.5 hours).
- Teaching classes for the Ph.D. course entitled “Embodiment, Discourse and Technology in Mathematics Education Research”, University of Ferrara, a.y. 2023-2024 (4 hours).

Bachelor/Master or other lectures

- Lecturer for the Erasmus+ Teaching Mobility program at the University of Bremen (December 2025, 4 hours).
- Lecturer for the course “Mathematics education: In-depth Analysis of Selected Topics”, Free University of Bozen, a.y. 2025-2026 (40 hours).
- Teacher for the course “Elementary Mathematics”, Degree in Primary Education Science, Università Cattolica di Piacenza, a.y. 2025-2026, 2024-2025 (60 hours).
- Teaching classes for the Initial Training Course (Percorso Formazione Iniziale – PFI) for secondary school teachers. The course was entitled “Metodi e strategie didattiche per l’insegnamento della Matematica I” [Teaching methods and strategies for teaching Mathematics I], Università Cattolica of Brescia and Piacenza, a.y. 2025-2026, a.y. 2024-2025, a.y. 2023-2024 (12 hours).

Laboratory lectures

- Lecturer for the Laboratory of the course “Didactics of Mathematics with an Emphasis on the Age Range 5-12”, Free-University of Bozen (a.y. 2025-2026, 90 hours; a.y. 2024-2025, 60 hours).
- Lecturer for the Laboratory of the course “Basic elements of mathematics for its teaching with special attention to the age range (0)-2-7”, Free-University of Bozen, (a.y. 2024-2025, 30 hours).

Tutoring lectures

- Tutor assistant for “Foundations and Teaching of Mathematics II”, Degree in Primary Education Science, University of Turin, a.y. 2021-2022 (40 hours).
- Intensive course of Mathematics addressed to first-year university students, Università Cattolica del Sacro Cuore, Brescia (September 2021, 25 hours).
- Seminars of “Tensor Calculus” for the course “Mathematical Physics I”, Master Degree in Mathematics, University of Ferrara, a.y. 2021-2022 (6 hours), a.y. 2020-2021 (6 hours), a.y. 2019-2020 (7 hours).
- Tutor assistant for “Institutions of mathematics”, Bachelor Degree in Computer Science, Università degli Studi di Ferrara, a.y. 2021-2022 (31 hours), a.y. 2020-2021 (29 hours).
- Tutor assistant for “Introduction to Mathematical Analysis II”, Bachelor Degree in Electronic and IT Degree, University of Ferrara, a.y. 2021-2022 (24 hours), a.y. 2020-2021 (22 hours), a.y. 2019-2020 (24 hours).
- Tutor assistant for “Mathematics Education”, Bachelor Degree in Mathematics, University of Ferrara, a.y. 2020-2021 (10 hours), a.y. 2019-2020 (13 hours).

Other academic responsibilities

- Member of the Council of Mathematics Department (Consiglio di Dipartimento di Matematica) of the University of Turin (March 2024-October 2024) as a representative of temporary afferents.

Memberships

- Member of Unione Matematica Italiana (UMI), 2019; 2026. Since 2026, I have

also been part of the UMI group DiGiMath - Cultura digitale per l'innovazione didattica universitaria.

- Member of Association MaddMaths! ETS since 2025.
- Member of the International Group for the Psychology of Mathematics Education (IGPME), 2021; 2023; 2026.
- Member of the European Society for Research in Mathematics Education (ERME), since 2022.

During CERME 14, I contributed as co-leader to the Thematic Working Group on Learning with Technologies (TWG16) as a young researcher. I also served as an auditor to the ERME financial report elaborated by the treasurer of the society.

- Member of Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni (GNSAGA), INdAM, since 2020.
- Member of Associazione Italiana di Ricerca in Didattica della Matematica (AIRDM), since 2019.

Research and scholarships

- Principal investigator, as a researcher of the Free University of Bozen, of the project *CoDeMI - Co-Developing educational materials in Mathematics and Informatics*. Co-PI: Prof. A. Montesor (University of Trento). Funded by: EUREGIO MOBILITY FUND VIII - 2025/2026. Accepted on: 14/07/2025. Funding amount: € 5.625. Project duration: 01/09/2025-30/09/2026.
- Member of the PRIN project *MaSt - Mathematics Standardized Assessment as a Tool for Teachers' Professional Development* (10/12/2024-28/02/2026). On 11/12/2024, I stepped in as the responsible person for the Unibz unit and Co-Principal Investigator of the project. Website of the project: <https://sites.google.com/unife.it/mast-eng/home?authuser=0>
- Member, as a researcher in Mathematics Education, of *MaT&L Research Group – Mathematics Teaching and Learning Research Group* (since November 2022) based at the Department of Mathematics and Computer Science, University of Ferrara. The research group is currently focused on studying the role of covariational reasoning in the teaching and learning processes of mathematics focusing on the Italian educational paramount. The scientific leaders of the research group are Prof. F. Arzarello and Prof. F. Ferretti. Website of the group: [MaT&L Research Group](https://www.matl-research.com)
- Member (with a post-doctoral scholarship), as a researcher in Mathematics Education from the University of Turin, of the HORIZON-WIDERA project *TransEET – Transforming Education with Emerging Technology* (01/09/2023-31/10/2024). The project aims at shaping the use of existing and emerging technologies, for dynamic educational transformation aiming to meet the needs of the 21st century. Principal investigator of the project: Prof. C. Kynigos (National and Kapodistrian University of Athens). Website of the project: <https://transeet.eu/>
- Participation in the activities of the *research group in Mathematics Education at the University of Turin* (01/09/2023-31/10/2024) and collaboration with it in conferences, seminars, theoretical and empirical research, and teacher training activities (Referent: Prof. O. Robutti).
- Member, as a researcher in Mathematics Education from the University of Turin, of the *STEAM-Connect project* (01/09/2023-31/10/2024). The project focuses on new innovative methods for STEAM education. The goal is to co-create transdisciplinary STEM-to-STEAM pedagogical innovations through connecting international learning communities. Principal investigator of the project: Prof. Y. Kreis (University of Luxembourg). Website of the project: <https://steamconnect.education/>
- Member (with a post-doctoral scholarship), as a researcher in Mathematics Education, of the project *AR4MATH – Augmented Reality for Learning Math* (01/01/2022-31/08/2023). The AR4MATH project considers the application of augmented reality (AR) technology for developing mathematical reasoning. It aims to show the potentialities of AR technology and outline the theoretical principles behind them. Principal investigator of the project: Dr O. Swidan (Ben-Gurion University of the Negev).
- Member, as a researcher in Mathematics Education, of the project *Fostering mathematical discussion beyond the borders* funded by the International

Group for the Psychology of Mathematics Education (IGPME), Special Projects 2023. The project investigates the potentialities of a digital tool called Padlet to promote new forms of mathematical discussion promoting the participation and inclusion of all the students. Principal investigator of the project: Dr C. Giberti (University of Bergamo). This project involves researchers in Mathematics Education and school mathematics teachers from four different countries (Argentina, Canada, Israel, and Italy).

- Principal investigator, as a researcher in Mathematics Education, of the project *Investigating second-order covariation with eye-tracking* (2022-2024). The project aims at identifying and characterizing cognitive processes involved in reasoning covariationally about graphical representations of functional relationships. Other members of the project are: Prof. M. Vollstedt (Bremen University), A. Thomaneck (Bremen University), Dr O. Swidan (Ben-Gurion University), Y. Vaknin (Ben-Gurion University).

Publications • Journal articles in refereed academic journals

1. Taranto, E., Bagossi, S., Arzarello, F., & Beltramino, S. (2026). Interdisciplinary Conceptualizations of Variables and Parameters Through Narratives. *Education Sciences*, 16(2), 217. <https://doi.org/10.3390/educsci16020217>
 2. Bagossi, S., Taranto, E., Beltramino, S., & Arzarello, F. (2025). Roles of teacher in synchronous online mathematical discussion on parametric functions. *Journal of Mathematics Teacher Education*, 1-27. <https://doi.org/10.1007/s10857-025-09715-0>
 3. Silvestri, L., Bagossi, S., Pocalana, G., & Robutti, O. (2025). Towards a transdisciplinary approach in a mathematics teacher's design of a STEAM activity. *International Journal of Educational Research Open*, 9, 100490. <https://doi.org/10.1016/j.ijedro.2025.100490>
 4. Ferretti, F., Giberti, C., Bagossi, S., Taranto, E., & Arzarello, F. (2024). Embodied instrumented covariation: a case study from primary school with the Tracer. *For The Learning of Mathematics*, 44(3), 29–35.
 5. Bagossi, S. (2026). Second-order covariation: enlarging the theoretical framework of covariational reasoning. *Mathematical Thinking and Learning*, 28(1), 101–122. <https://doi.org/10.1080/10986065.2024.2393889>
 6. Jaber, O., Bagossi, S., Fried, M.N., & Swidan, O. (2024) Conceptualizing functional relationships in an augmented reality environment: connecting real and virtual worlds. *ZDM Mathematics Education*. <https://doi.org/10.1007/s11858-024-01594-8>
 7. Bagossi, S. (2024). Engaging in covariational reasoning when modelling a real phenomenon: the case of the psychometric chart. *Bollettino dell'Unione Matematica Italiana*, 17(2), 199–220. <https://doi.org/10.1007/s40574-023-00375-7>
 8. Bagossi, S., & Swidan, O. (2023). Learning Second-order Covariation with GeoGebra and Augmented Reality. *International Journal for Technology in Mathematics Education*, 30(4), 213–218. https://doi.org/10.1564/tme_v30.4.2
 9. Bagossi, S., Swidan, O., & Arzarello, F. (2022). Timeline tool for analyzing the relationship between students-teachers-artifacts interactions and meaning-making. *Journal on Mathematics Education*, 13(2), 357–382. <https://doi.org/10.22342/jme.v13i2.pp357-382>
 10. Bagossi, S., Ferretti, F., & Arzarello, F. (2022). Assessing covariation as a form of conceptual understanding through comparative judgement. *Educational Studies in Mathematics*, 111(3), 469–492. <https://doi.org/10.1007/s10649-022-10178-w>
 11. Swidan, O., Bagossi, S., Beltramino, S. & Arzarello, F. (2022). Adaptive instruction strategies to foster covariational reasoning in a digital rich environment. *The Journal of Mathematical Behavior*, 66, 100961. <https://doi.org/10.1016/j.jmathb.2022.100961>
- Journal articles in non-indexed or professional journals
12. Swidan, O., Bagossi, S., & Radford, L. (2025). Feeling the slope and the movement of consciousness: learning the derivative concept with augmented reality technology. *Digital Experiences in Mathematics*

- Education*, 11, 380–406. <https://doi.org/10.1007/s40751-025-00183-y>
13. Arzarello, F., & Bagossi, S. (2025). Semiotic analysis of an AR data set: an inside-outside dialectics. *Digital Experiences in Mathematics Education*, 11, 437–465. <https://doi.org/10.1007/s40751-025-00185-w>
 14. Swidan, O., Bagossi, S., Schacht, F., & Sabena, C. (2025). Touch the Derivative: Learning Mathematics with Augmented Reality. *Digital Experiences in Mathematics Education*, 11, 367–379. <https://doi.org/10.1007/s40751-025-00192-x>
 15. Bagossi, S., Pelizzari, F., & Soldano, C. (2025). Trasformarsi in game designer per riflettere sulla classificazione di forme geometriche [Becoming game designer to reflect on the classification of geometrical shapes]. *Essere A Scuola*, 7, 26–31.
 16. Bagossi, S., Giberti, C., Beltramino, S., & Frascchetti, C. (2024). Promuovere la discussione matematica attraverso Padlet. *Nuova Secondaria*, 9, 280–286.
 17. Bagossi, S., Giberti, C., Lemmo, A., & Taranto, E. (2024). Il supporto della piattaforma digitale Padlet. Una nuova prospettiva per la discussione matematica in classe [The support of the digital platform Padlet. A new perspective for mathematical discussion in the classroom]. *Essere A Scuola*, 8, 27–30.
 18. Asenova, M., Bagossi, S., & Arzarello, F. (2023). A categorical definition of second order covariation. Epistemological and didactical aspects. *Caminhos da Educação Matemática em Revista (Online)*, 13(2), 11–32. https://periodicos.ifs.edu.br/periodicos/caminhos_da_educacao_matematica/article/view/1551/1504
 19. Bagossi, S. (2021). Variabili e parametri: un’analogia informatica [Variables and parameters: a computer science analogy], *L’insegnamento della matematica e delle scienze integrate*, Vol. 44 B, 74–88.
- **Books – Authored**
 20. Bagossi, S., Beltramino, S., Ferretti, F., Giberti, C., & Taranto, E. (2023). *Varia tu che covario anch’io. Riflessioni e progettazioni sul ragionamento covariazionale [You vary and I covary too: Insights and educational projects on covariational reasoning]*. Ledizioni. <https://doi.org/10.5281/zenodo.7797424>
 - **Conference proceedings**
 21. Bagossi, S., Karavakou, M., Margolis, C., Swidan, O., Taranto, E., & Wei, H. (accepted). Cross-synergy between digital tools and theoretical perspectives for covariational reasoning. *Proceedings of PME49*. PME 49.
 22. Bagossi, S., & Swidan, O. (2026). A multimodal investigation of second-order covariational reasoning. In A. Clark-Wilson and C. Bokhove (Eds.), *Proceedings of the 17th International Conference on Technology in Mathematics Teaching*, (pp. 27-34). London, United Kingdom. DOI: 10.14324/000.bk.10223410
 23. Swidan, S., Trgalová, J., Schacht, F., Faggiano, E., Bos, R., & Bagossi, S. (2025). Learning mathematics with technology and other resources: A short report from TWG16. In M. Bosch, G. Bolondi, S. Carreira, C. Spagnolo, & M. Gaidoschik (Eds.), *Proceedings of the Fourteenth Congress of European Research in Mathematics Education (CERME14)* (pp. 2593–2600). Free University of Bozen-Bolzano and ERME. <https://hal.science/hal-05334465v1/document>
 24. Bagossi, S., Swidan, O., Thomaneck, A., Vaknin, Y., & Vollstedt, M. (2025). Investigating covariational reasoning: a multimodal analysis including eye-tracking data. In M. Bosch, G. Bolondi, S. Carreira, C. Spagnolo, & M. Gaidoschik (Eds.), *Proceedings of the Fourteenth Congress of European Research in Mathematics Education (CERME14)* (pp. 2593–2600). Free University of Bozen-Bolzano and ERME. <https://hal.science/hal-05283476v1/document>
 25. Ghersi, A., Monformoso, L., Bagossi, S., Palha, S., & Robutti, O. (2025). Use of conceptual blending to investigate students approaching functions in an emerging embodied technology. In M. Bosch, G. Bolondi, S. Carreira, C. Spagnolo, & M. Gaidoschik (Eds.), *Proceedings of the Fourteenth Congress of European Research in Mathematics Education (CERME14)* (pp. 4635–4642). Free University of Bozen-Bolzano and ERME. <https://hal.science/hal-05307171v1/document>

26. Soldano, C., Palha, S., Bagossi, S., Sabena, C., Bouwer, A., van Crasbeek, E., & Karavakou, M. (2025). Digital game-based mathematics curriculum resources: methodological reflections on collaborative prototyping. In M. Bosch, G. Bolondi, S. Carreira, C. Spagnolo, & M. Gaidoschik (Eds.), *Proceedings of the Fourteenth Congress of European Research in Mathematics Education (CERME14)* (pp. 3766–3773). Free University of Bozen-Bolzano and ERME. <https://hal.science/hal-05294294v1>
27. Bagossi, S., Nikolaou, M.S., & Beltramino, S. (2025). Empowering students as game designers: A teaching experiment on triangle classification. In Cusi, A., Maffia, A., Palha, S., & Vogler, A.M. (Eds.), *Proceedings of the GAME conference* (pp. 13–16). ERME. <https://hal.science/view/index/docid/05123504>
28. Colangelo, M., Robutti, O., Bagossi, S., & Ghersi, A. (2024). Applicazione di realtà mista per l'esplorazione di funzioni a due variabili [Mixed-reality application for the exploration of two-variable functions]. In M. Asenova & B. D'Amore (Eds.), *Atti del Convegno Nazionale "Incontri con la Matematica" nr. 38* (pp. 243–245). Bonomo.
29. Taranto, E., Bagossi, S., Ferretti, F., & Arzarello, F. (2024). Italian teachers' beliefs on covariational reasoning: an exploratory study. *LUMAT-B: International Journal on Math, Science and Technology Education*, 9(2). <https://journals.helsinki.fi/lumatb/article/view/2480>
30. Bagossi, S., Swidan, O., & Abu Asbe, O. (2024). Feeling the slope: learning the derivative concept with augmented reality. In D. Diamantidis, M. Karavakou, M. Grizioti, & C. Kynigos (Eds.), *Proceedings of the 16th International Conference on Technology in Mathematics Teaching*, (pp. 5–12). Athens, Greece. NKUA. DOI: 10.5281/zenodo.13747986
31. Lemmo, A., Bagossi, S., Cazzaniga, P., Giberti, C., Taranto, E., & Swidan, O. (2024). Orchestrating productive mathematical discussions with and through Padlet. In E. Faggiano, A. Clark-Wilson, M. Tabach, & H.-G. Weigand (Eds.), *Proceedings of the 13th ERME Topic Conference Mathematics Education in the Digital Age 4 (MEDA4)*, 247–254.
32. Bagossi, S., Soldano, C., Taranto, E., & Viola, G. (2024). Prompting embodied instrumented covariation with the digital Tracer. In E. Faggiano, A. Clark-Wilson, M. Tabach, & H.-G. Weigand (Eds.), *Proceedings of the 13th ERME Topic Conference Mathematics Education in the Digital Age 4 (MEDA4)*, 25–32.
33. Bagossi, S., & Taranto, E. (2023). Disclosing parametric functions in the transition from pen-and-paper to GeoGebra. In P. Drijvers, C. Csapodi, H. Palmér, K. Gosztonyi, & E. Kónya (Eds.), *Proceedings of the Thirteenth Congress of the European Society for Research in Mathematics Education (CERME13)* (pp. 2859–2866). Alfréd Rényi Institute of Mathematics and ERME.
34. Bagossi, S., Taranto, E., Beltramino, S., & Arzarello, F. (2023). Conoscenze e convinzioni degli insegnanti in merito alla covariazione [Teachers' knowledge and beliefs about covariation]. In M. Asenova & B. D'Amore (Eds.), *Atti del Convegno Nazionale "Incontri con la Matematica" nr. 37*, 10-12 novembre 2023, Castel San Pietro Terme (BO) (pp. 135–136). Bonomo.
35. Bagossi, S., Kovarsky Boev, Y., & Swidan, O. (2023). Meaning-making through questioning in an augmented reality environment. In M. Ayalon, B. Koichu, R. Leikin, L. Rubel & M. Tabach (Eds.), *Proceedings of the 46th Conference of the International Group for the Psychology of Mathematics Education* (Vol. 2, pp. 75–82). PME 46.
36. Bagossi, S., Capone, R., & Mennuni, F. (2023). Undergraduate students' second-order covariational reasoning when conceptualizing paraboloids supported by digital tools. In M. Ayalon, B. Koichu, R. Leikin, L. Rubel & M. Tabach (Eds.), *Proceedings of the 46th Conference of the International Group for the Psychology of Mathematics Education* (Vol. 2, pp. 67–74). PME 46.
37. Bagossi, S., & Arzarello, F. (2023). Instrumented covariation under two theoretical lenses. In C. Derouet, A. Nechache, P.R. Richard, L. Vivier, I.M. Gómez-Chacón, A. Kuzniak, M. Maschietto & E. Montoya Delgadillo (Eds.), *Actes du septième symposium d'Étude sur le Travail Mathématique*

- (ETM7) (pp. 345–356). IREM de Strasbourg.
38. Bagossi, S., Shifrin, N., Jaber, O., & Swidan, O. (2022). Interactions and meaning-making in an AR learning environment. In H-G. Weigand, A. Donevska-Todorova, E. Faggiano, P. Iannone, J. Medová, M. Tabach, & M. Turgut (Eds.), *Proceedings of the 13th ERME Topic Conference Mathematics Education in Digital Age 3*, 51–55. Available at: <https://hal.science/hal-03925304/document>
 39. Jaber, O., Bagossi, S., & Swidan, O. (2022). Augmented reality for conceptualizing covariation through connecting virtual and real worlds. In H-G. Weigand, A. Donevska-Todorova, E. Faggiano, P. Iannone, J. Medová, M. Tabach, & M. Turgut (Eds.), *Proceedings of the 13th ERME Topic Conference Mathematics Education in Digital Age 3*, 182–187. Available at: <https://hal.science/hal-03925304/document>
 40. Bagossi, S. (2022). Second-order covariation: it is all about standpoints. In J. Hodgen, E. Geraniou, G. Bolondi & F. Ferretti (Eds.), *Proceedings of the Twelfth Congress of European Research in Mathematics Education (CERME12)* (pp. 4228–4235). Free University of Bozen-Bolzano and ERME. Available at: <https://hal.science/hal-03765022/document>
 41. Bagossi, S. (2022). Conceptual blending unravels covariation. In C. Fernández, S. Llinares, A. Gutiérrez, & N. Planas (Eds.), *Proceedings of the 45th Conference of the International Group for the Psychology of Mathematics Education* (Vol. 4, p. 173). PME. Available at: <https://rua.ua.es/dspace/bitstream/10045/126724/1/proceedings-pme45-vol4-029.pdf>
 42. Bagossi, S. (2021). Valutare la conoscenza concettuale con il Comparative Judgement [Assessing conceptual understanding with Comparative Judgement]. In B. D'Amore (Ed.), *Atti del Convegno Nazionale "Incontri con la matematica" XXXV* (pp. 173–174). Bologna: Pitagora.
 43. Bagossi, S. (2021, April 9th). Toward second order covariation: Comparing two case studies on the modelling of a physical phenomenon. Paper presented at the 2021 annual meeting of the American Educational Research Association. Retrieved 26/07/2023, from the AERA Online Paper Repository. <https://doi.org/10.3102/1688398>
 44. Bagossi, S. (2019). Un approccio visuale alla regolarità in geometria solida [A visual approach to regularity in geometry], *L'insegnamento della matematica e delle scienze integrate, Atti del XLVIII Seminario Nazionale*, Vol. 42 A-B, 721–722.
- **Conference abstract**
 45. Taranto, E., Alderson, C., Arzarello, F., Bagossi, S., Beltramino, S., Cazzaniga, P., Giberti, C., & Lemmo, A. (2025). Promuovere la discussione matematica con Padlet: orientamenti e linee guida didattiche. In C. Bassi, D. Brunetto, M. Conti, M. Fiorentino, & A. Miranda (Eds.), *Workshop 2025 DIGIMATH - Book of Abstracts* (pp. 27–29). https://re.public.polimi.it/retrieve/58f0801b-316e-4577-82d1-c132a714c03f/BOA_digimath.pdf
 46. Bagossi, S., Ghersi, A., Robutti, O., Karavakou, M., & Bouwer, A. (2024). Co-creation of educational prototypes within a Community of Interest: a case study from the TransEET project. In V. Santos, I. Cabrita, L. Descalço, M. M. Pinheiro, N. Bastos, P. Carvalho, P. Oliveira & T. B. Neto (Eds.), *2nd International Conference on Math Education and Technology 2024 (ICMET2024) – Book of Abstracts* (pp. 128–129). UA Editora: University of Aveiro. <https://doi.org/10.48528/yshr-s860>
 47. Bagossi, S., & Swidan, O. (2024). Exploring orders of covariational reasoning in digital environments. In V. Santos, I. Cabrita, L. Descalço, M. M. Pinheiro, N. Bastos, P. Carvalho, P. Oliveira & T. B. Neto (Eds.), *2nd International Conference on Math Education and Technology 2024 (ICMET2024) – Book of Abstracts* (pp. 110–111). UA Editora: University of Aveiro. <https://doi.org/10.48528/yshr-s860>
 48. Colangelo, M., Robutti, O., Yang, Y., Karavakou, M., Ghersi, A., & Bagossi, S. (2024). Prototypes with Transformative Technologies for STEAM Education. In V. Santos, I. Cabrita, L. Descalço, M. M. Pinheiro, N. Bastos, P. Carvalho, P. Oliveira & T. B. Neto (Eds.), *2nd International Conference on Math Education and Technology 2024 (ICMET2024) – Book of*

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49. Bagossi, S., Giberti, C., Cazzaniga, P., Beltramino, S., Taranto, E., & Lemmo, A. (2024). The use of Padlet to overcome national borders in the mathematical discussion. In N. Bianquin, & F. Magni (Eds.), *Book of abstract ATEE Spring Conference 2024* (p. 213). Available at: https://drive.google.com/file/d/1CKuGXZPU-ZnQgnzFGP-6o_5K22u5gaNI/view
50. Bagossi, S., Beltramino, S., & Taranto, E. (2022). Variabili e parametri: voci di studenti e insegnanti a confronto. In B. Di Paola (Ed.), *Atti delle Giornate di Studio dell'Insegnante di Matematica (GIMat) - Le mani, la parola, la testa: capire, argomentare, dimostrare in matematica*, Quaderni di Ricerca in Didattica (Mathematics), 10(1), 57–59. Palermo, Italy: G.R.I.M., Dipartimento di Matematica e Applicazioni. Available at: https://sites.unipa.it/grim/quaderno_2022_numspeg_10.htm
- **Posters**
 51. Colangelo, M., & Bagossi, S. (2024). Using Mixed reality applications for learning Math. In N. Bianquin, & F. Magni (Eds.), *Book of abstract ATEE Spring Conference 2024* (p. 351). Poster available at: <https://doi.org/10.5281/zenodo.11519047>
 52. Bagossi, S., Jaber, O., & Abu Asbe, O. (2023). Augmented Reality for Learning Math. Poster for the interactive exhibition “Learning with Augmented Reality”. <http://dx.doi.org/10.13140/RG.2.2.14156.80001>
 53. Bagossi, S. (2021). Virtual poster for the paper presented during AERA 2021. <https://aera21-aera.ipostersessions.com/default.aspx?s=06-45-F8-63-66-83-57-71-3D-00-B6-47-E5-9F-1E-55#>
- **Talks as invited speaker**
 54. Bagossi, S. (2025, March 6th). La discussione matematica nell'era digitale [mathematics discussion in the digital age]. Università Cattolica del Sacro Cuore, Brescia, Italy.
 55. Arzarello, F., & Bagossi, S. (2024, April 17th). Strumenti e corpo nell'apprendimento della matematica [Tools and body in the learning of mathematics], Ciclo di seminari di formazione di didattica della matematica, University of Ferrara, Italy.
 56. Bagossi, S. (2023, December 20th). Highlights from research on learning calculus concepts with augmented reality, XMaths workshop, University of Bari, Italy.
 57. Bagossi, S. (2023, December 14th). Apprendere la matematica con la realtà aumentata: tra sfide e realtà [Learning Math with augmented reality: challenges and reality], Mathesis Subalpina, Turin, Italy.
 58. Bagossi, S. (2023, October 31st). Esplorare il ragionamento covariazionale con il tracciatore [Exploring covariational reasoning with the Tracer]. University of Ferrara, Italy.
 59. Bagossi, S. (2022, April 11th). Covariation: new orders and fresh approaches. Univ. of Turin, online.
- **Talks**
 60. Bagossi, S., & Swidan, O. (2025, October 23rd). A multimodal investigation of second-order covariational reasoning. *17th International Conference on Technology in Mathematics Teaching*. London, UK.
 61. Pelizzari, F., & Bagossi, S. (2025, October 10th). Code, Play, Teach: A playful approach to computational and mathematical thinking for pre-service teachers. *School Playful Space conference*. Brixen, Italy.
 62. Bagossi, S., & Swidan, O. (2025, September 10th). Investigating students' first- and second-order covariational reasoning with eye-tracking. *Computer Algebra and Dynamic Geometry in Mathematics Education (CADGME 2025)*, Luxembourg.
 63. Arzarello, F., Paola, D., Beltramino, S., Cazzaniga, P., Bagossi, S., Spagnolo, C., & Taranto, E. (2025, September 10th). The voice of ChatGPT to promote critical thinking in the mathematics classroom. *Computer Algebra and Dynamic Geometry in Mathematics Education (CADGME 2025)*, Luxembourg.

Talks and workshops

64. Bagossi, S., Swidan, O., & Vaknin, Y. (2025, June 19th). Interpreting simulations of a physical phenomenon: insights from an eye-tracking study. *CalcConf 3 - The Learning and Teaching of Calculus Across Disciplines 2*. University of Milan, Italy.
65. Bagossi, S., Robutti, O., & Sabena, C. (2024, April 23rd). On the creation of technological prototypes for the teaching and learning of mathematics: theoretical and methodological insights from the TransEET project, CIEAEM 75 – Informal meeting, University of Turin.
66. Silvestri, L., Bagossi, S., Robutti, O., Pocalana, G., & Mondino, W. (2024, April 23rd). Insights on the design and implementation of STEAM activities within the STEAM-Connect project, *CIEAEM 75 – Informal meeting*, University of Turin.
67. Pocalana, G., Bagossi, S., Colangelo, M., Robutti, O., Soldano, O., Bautista, G., & Bouwer, A. (2023, November 4th). Developing Augmented and Virtual Reality prototypes for Mathematics Education within the TransEET project, *Second International Symposium on Augmented and Virtual Reality in Mathematics Education*, online.
68. Bagossi, S., Swidan, O., & Abu Asbe, O. (2023, November 3rd). Touch the derivative: Design and learning considerations for an Augmented Reality learning environment, *Second International Symposium on Augmented and Virtual Reality in Mathematics Education*, online.
69. Bagossi, S., Giberti, C., Arzarello, A., Bolondi, G., Beltramino, S., & Frascchetti, C. (2023, September 29th). Promuovere la discussione matematica attraverso il Padlet, *Scuola e istruzione superiore in dialogo*.
70. Bagossi, S., Swidan, O., & Mousa, K. (2023, September 13th). Emerging orders of covariational reasoning in a digital learning environment, *Computer Algebra and Dynamic Geometry in Mathematics Education (CADGME 2023)*, Catania.
71. Bagossi, S. (2023). C'era una volta una tesi sulla covariazione al secondo ordine. Riflessioni sparse un anno e mezzo dopo [Once upon a time, there was a thesis on second-order covariation. Scattered reflections one year and a half later]. Talk for the cycle "Ph.D. webinar" organized by AIRDM. Reactor: Prof. Samuele Antonini.
72. Arzarello, F., Bolondi, G., Giberti, C., Wagner, D., Bagossi, S., & Lemmo, A. (2023, April 15th). Fostering mathematical discussion beyond the borders. *ICDME—Tsukuba Conference 2023*.
73. Bagossi, S. (2023, January 11th). Qualitative methods in Mathematics Education. Ben-Gurion Univ.
74. Bagossi, S., Beltramino, S., & Taranto, E. (2022, November 18th). Variabili e parametri: voci di studenti e insegnanti a confronto [Variables and parameters: students and teachers' voices], *Giornate dell'Insegnante di Matematica – GIMat*.
75. Bagossi, S., Jaber, O., & Swidan, O. (2022, September 13th). Learning Second-Order Covariation with GeoGebra and Augmented Reality. *Computer Algebra and Dynamic Geometry in Mathematics Education (CADGME 2022)*, Jerusalem.
76. Bagossi, S., & Arzarello, F. (2022, June 28th). Instrumented covariation under two theoretical lenses, *Seventh Symposium on the Study on Mathematical Work*, online.
77. Bagossi, S. (2022, May 27th). Second-order covariation: an analysis of students' forms of reasoning and teacher's interventions when modelling real phenomena, *First UMI Meeting of Ph.D. Students*, Padova.
78. Bagossi, S. (2022, April 26th). Embodied cognition and multimodality. Invited by Dr Osama Swidan, Ben-Gurion Univ.
79. Bagossi, S. (2022, April 6th). Using digital tools for math learning: investigating second-order covariation. Ben-Gurion Univ.
80. Bagossi, S. (2022, February 4th). Second-order covariation: it is all about standpoint, *Twelfth Congress of the European Society for Research in Mathematics Education*, online.
81. Bagossi, S. (2021, October 6th). Raccontare i processi di insegnamento-apprendimento del ragionamento covariazionale nella modellizzazione di fenomeni reali [The teaching-learning processes of covariational reasoning in the modelling of real phenomena], *Initiative "Dottorandi in Ateneo"*, Ateneo di Brescia.

82. *Bagossi, S.* (2020, May 25th). La nozione di co-variazione: Dalla teoria alla pratica in aula [The notion of covariation: from theory to classroom practice], *Mathesis Ferrara*, online.
- **Posters**
 - 83. *Bagossi, S.*, Silvestri, L., Robutti, O., & *Bagossi, S.* (2024, October 19th). Overcoming disciplinary boundaries through STEAM activities, *WAAE Global Arts Education Summit*.
<http://dx.doi.org/10.13140/RG.2.2.20438.87365>
 - 84. Colangelo, M., & *Bagossi, S.* (2024). Using Mixed reality applications for learning Math. In N. Bianquin, & F. Magni (Eds.), *Book of abstract ATEE Spring Conference 2024* (p. 351). Available at:
https://drive.google.com/file/d/1CKuGXZPU-ZnQgnzFGP-6o_5K22u5gaNI/view Poster available at:
<https://doi.org/10.5281/zenodo.11519047>
 - 85. *Bagossi, S.*, Jaber, O., & Abu Asbe, O. (2023). Augmented Reality for Learning Math. Poster for the interactive exhibition "Learning with Augmented Reality". <http://dx.doi.org/10.13140/RG.2.2.14156.80001>
 - 86. *Bagossi, S.* (2021). Virtual poster for the paper presented during AERA 2021. <https://aera21-aera.ipostersessions.com/default.aspx?s=06-45-F8-63-66-83-57-71-3D-00-B6-47-E5-9F-1E-55#>
 - **Workshops**
 - 87. Karavakou, M., Kynigos, C., Nikolaou, MS., Palha, S., Robutti, O., Soldano, C., *Bagossi, S.*, & Hornsby, D. (2024, October 19th). Dancing with Mathematics: an interdisciplinary educational approach for embodied learning with motion-capture technologies, *WAAE Global Arts Education Summit*.
 - 88. *Bagossi, S.* (2024, September 27th). Trasformarsi in game designer per riflettere sulla classificazione di forme geometriche. XXXVII Convegno UMI-CIIM.
 - 89. *Bagossi, S.*, & Swidan, O. (2024, June 19th). Exploring orders of covariational reasoning in digital environments. *2nd International Conference on Math Education and Technology 2024* (ICMET 2024). University of Aveiro, Portugal.
 - 90. Colangelo, M., Robutti, O., Yang, Y., Karavakou, M., Ghersi, A., & *Bagossi, S.* (2024, June 21st). Prototypes with Transformative Technologies for STEAM Education. *2nd International Conference on Math Education and Technology 2024* (ICMET 2024). University of Aveiro, Portugal.
 - 91. Swidan, O., & *Bagossi, S.* (2024, April 18th). Drops of covariation. *MaT&L Inaugural event*, University of Ferrara.
 - 92. *Bagossi, S.*, Ferretti, F., Soldano, C., & Taranto, E. (2023, October 11th). Esplorare la covariatione con il tracciatore fisico e digitale [Exploring covariation with the physical and digital Tracer], *DIFIMA 2023*.
 - 93. Abu Asbe, O., & *Bagossi, S.* (2023, May 17th). Experiencing augmented reality and discussing covariational design, *Workshop on covariation 2023*.

Mentoring

- Co-advisor of the master thesis of Laura Sala (2024-2025), *Oltre il Limite. Come la realtà aumentata può favorire l'apprendimento del concetto di limite* [Beyond the limit. How augmented reality can support the learning of limits], advisor C. Giberti, co-advisor T. Rosi, University of Modena and Reggio Emilia.
- Co-advisor of the master thesis of Walter Mondino (2023-2024), *Progettazione di attività STEAM: esperienze di alcuni insegnanti del progetto STEAM-Connect* [Designing STEAM activities: experiences of some teachers in the STEAM-Connect project], advisor Prof. O. Robutti, co-advisor Dr L. Silvestri, University of Turin.
- Co-advisor of the master thesis of Flavio Mazzarino (2023-2024), *Rappresentazioni dinamiche di oggetti matematici nell'insegnamento-apprendimento: Il progetto MERLO 2.0* [Dynamic representations of mathematical objects in teaching-learning: the project MERLO 2.0], advisor Prof. O. Robutti, co-advisor Dr M. Colangelo, University of Turin.
- Co-advisor of the master thesis of Denis Cerma (2022-2023), *Potenzialità di un prototipo di realtà aumentata nella didattica della matematica dal punto di vista dei professori* [Potentialities of an augmented reality prototype in

Mathematics Education from the professors' point of view], advisor Prof. O. Robutti, co-advisor Dr A. Ghersi, University of Turin.

- Co-advisor of the master thesis of Mosé Colangelo (2022-2023), Development of Virtual Reality resource prototypes for Mathematics Education, advisor Prof. O. Robutti, co-advisor Dr G. Pocalana, University of Turin.
- Co-advisor of the bachelor thesis of Simone Chiarelli (2018-2019), Esplorare la geometria sferica: un laboratorio matematico con la sfera di Lénárt [Exploring spherical geometry: a mathematical laboratory with the sphere of Lénárt], advisor Prof. M. T. Borgato, University of Ferrara.

Member of scientific and organizing committee

- Organizer of a seminar with Alberto Montresor and Agnese Del Zozzo (University of Trento) as invited speakers. Title of the seminar: *Spunti didattici fra matematica e informatica [Educational insights in between mathematics and informatics]*. December 16th, 2025, Free University of Bozen.
- “Workshop on covariation 2025”, July 9th-10th, Free University of Bozen-Bolzano, Italy. Scientific and organizing committee: F. Arzarello, S. Bagossi, G. Bolondi, F. Ferretti, O. Swidan, E. Taranto.
- Summer school “MaSt – Mathematics Standardized assessment as a tool for teachers’ professional development”, July 7th-9th, 2025, Free University of Bozen-Bolzano, Italy. Scientific-organizing committee: F. Ferretti, F. Martignone, C. Sabena, S. Bagossi, G. Bolondi, C. Spagnolo, M. Saccoletto, M. Asenova, A. Gambini, C. Soldano, S. Pozio, M. Viale, M. C. Cibien, G. Viola.
- “MaT&L Research Group Inaugural event”, April 18th-19th, 2024, University of Ferrara, Italy. Scientific committee: S. Bagossi, F. Ferretti, C. Soldano, E. Taranto, G. Viola.
- “Workshop on covariation 2023”, May 16th-17th, Ben-Gurion University of the Negev, Israel. Scientific and organizing committee: Dr S. Bagossi and Dr O. Swidan.
- Workshop “Augmented Reality in Mathematics Education”, 2022, November 6th-8th, Ben-Gurion University of the Negev, Israel. Scientific and organizing committee: Prof. M. Fried, Dr O. Swidan, Prof. C. Sabena, Prof. F. Schacht, Dr S. Bagossi.

International networking

- Teaching exchange at the University of Bremen funded by Erasmus+ Teaching Mobility (December 2025, 4 hours of teaching + 4 hours of learning).
- Reading Club in Mathematics Education – III edition (a.y. 2025-2026), organized by: O. Swidan & S. Bagossi. Reading of some chapters of the book: Martinovic, D., & Danesi, M. (Eds.), *Mathematics and Education in an AI Era*. 19 participants.
- Reading Club in Mathematics Education – II edition (a.y. 2024-2025), organized by: O. Swidan & S. Bagossi. Reading of some chapters of the book: P. Ernest (Ed.), *Ethics and Mathematics Education*. 14 participants.
- Reading Club in Mathematics Education – I edition (a.y. 2023-2024), organized by: O. Swidan & S. Bagossi. Reading of some chapters of the book: B. Sriraman & L. English (Eds.), *Theories of Mathematics Education*. 9 participants.

Editorial and review activities

- Reviewer for the doctoral thesis of the candidate Roberto Zarcone, University of Palermo (2025). The dissertation is titled “La storia della matematica come risorsa pedagogica: genealogia di un dibattito e systemic review della ricerca” [“The History of Mathematics as a pedagogical resource: A genealogy of a debate and systematic literature review”].
- Guest editor for the special issue “Touch the Derivative: Learning Mathematics with Augmented Reality” on *Digital Experiences in Mathematics Education*, in collaboration with O. Swidan, F. Schacht, and C. Sabena (2025). <https://link.springer.com/collections/aaichaffb>
- Reviewer for journals: *Journal of Mathematical Behavior*, *Journal of Mathematics Teacher Education*, *Education Sciences*, *Digital Experiences in Mathematics Education*, *International Journal of Research in Undergraduate Mathematics Education*, *Journal for Research in Mathematics Education*,

Educational Studies in Mathematics, Mathematical Thinking and Learning, Frontiers in Education, Annali on line della Didattica e della Formazione Docente.

- Reviewer for conferences: MAVI: Mathematical Views, CERME: Conference of the European Society for Research in Mathematics Education, MEDA: Mathematics Education in the Digital Age.

Grants

- Scientific allowance awarded by Free Univ. of Bozen (y. 2025).
- Master Scholarship (2018), Asimpre – Associazione Imprese Rezzatesi, obtained by merit for academic achievement.
- High School Scholarship (2014), Rotary Club di Brescia Nord, obtained by merit for school achievement.
- Bachelor Scholarship (2013), Istituto Giuseppe Toniolo, obtained by merit for academic achievement.
- High School Scholarship (2013), MIUR - Ministero dell'Istruzione, dell'Università e della Ricerca, obtained by merit for school achievement.

Language competence

Italian – first language
English – C1 level. Certified by CLA Unibz on 29/09/2025.

Useful links

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Profiles: [Scopus](#), [Web of Science](#), [Google Scholar](#), [ResearchGate](#)

Date 17/04/2026