

Education

- September - December 2025 **Research visit**,
mathLab, SISSA, Trieste, Italy.
- January 2023 **PhD student in Applied and Computational Mathematics founded by the WASP Program**,
- *Dynamical systems, Data driven methods and Inverse Problems*,
KTH Royal Institute of Technology, Stockholm, Sweden.
- 2020 - 2022 **Master's degree in Mathematics**,
University of Verona, Italy.
- June 2022 - September 2022 **Master thesis**,
Bergische Universität Wuppertal, Germany.
- 2021 - 2022 **Erasmus + Study**,
University of Oslo, Norway.
- 2022 - 2022 **Partnership**,
University of Trento, Italy.
- 2017 - 2020 **Bachelor's degree in Applied Mathematics**,
University of Verona, Italy.

Teaching

- Spring 2026 **SF1626**, '*Multivariate Calculus*'.
- Spring 2026 **SF2930**, '*Regression Analysis*'.
- Spring 2025 **SF2943**, '*Time Series Analysis*'.
- Autumn 2024 **SF1672**, HT23 '*Linear Algebra*'.
- Spring 2024 **SF1685**, VT24 '*Calculus in One Variable*'.
- Autumn 2023 **SF1672**, HT23 '*Linear Algebra*'.
- Spring 2023 **SF1677**, VT23 '*Foundation of Analysis*'.

Conferences

- 14-15 January 2026 **WASP Winter Conference**,
WASP, Örebro, Sweden.
Poster presentation
- 22 - 26 September 2025 **YAMC 2025**,
Padova, Italy.
Talk
- 4 - 8 August 2025 **MSML 2025**,
Naples, Italy.
Poster presentation
- 28 July - 1 August 2025 **AIP 2025**,
FGV, Rio de Janeiro, Brasil.
Talk at MS11 XAIP

- 15 - 29 June **PINN Summer School**,
2025 *KTH, Stockholm, Sweden.*
- 14-15 January **WASP Winter Conference**,
2025 *WASP, Norrköping, Sweden.*
Poster presentation
- 12 - 16 **Generative AI Summer School**,
August 2024 *WASP, Norrköping, Sweden.*
- 24 - 26 July **Data-driven Dynamical Systems Summer School**,
2024 *University of Bremen, Germany.*
- 20 May - 21 **Scientific Machine Learning for Simulation and Inverse Modelling**,
June 2024 *Digital Futures, Stockholm, Sweden.*
- 10-12 January **WASP Winter Conference**,
2023 *Norrköping, Sweden.*
- 6-10 June **Participate as student**,
2022 *ICCF2022: International Conference on Computational Finance*,
Bergische Universität Wuppertal, Germany.

Publications

Preprint

- May 2025 **Data-driven multi-agent modelling of calcium interactions in cell culture: PINN vs Regularized Least-squares**, *Aurora Poggi, Giuseppe Alessio D'Inverno, Hjalmar Brismar, Ozan Öktem, Matthieu Barreau, Kateryna Morozovska*, Under Review, Arxiv.
- Working paper: **Deep Learning for Modeling Filamentous Sludge Bulking**, Authors: *Armando Assembleia, Andre Di Luca, Alba Gurpegui, Dennis Modesti, Aurora Poggi, Thomas Trinh*, Cambridge University Press.

Journal Papers

- April 2023 **Electricity Price Forecasting via statistical and deep learning approaches: the German case**, Authors: *Luca Di Persio, Matthias Ehrhardt, Aurora Poggi*, MDPI.

Conference paper:

- March 2026 **SEMI-LAGRANGIAN PHYSICS-INFORMED NEURAL NETWORKS (SL-PINNS) FOR SOLVING HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS (PDES)**, *Workshop AI&PDE, ICLR*, Edoardo Monti, Kateryna Morozovska, Aurora Poggi, Khemraj Shukla, Accepted for Poster Session.

Computer Skills

- Languages LaTeX, Python, MATLAB/Octave, Microsoft Excel, HTML

Languages

- Languages Italian (Mother tongue), English (Fluent)