

Education

- 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 - **Master thesis**,
September 2022 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 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

- 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 2025 **PINN Summer School**,
KTH, Stockholm, Sweden.
- 12 - 16 August 2024 **Generative AI Summer School**,
WASP, Norrköping, Sweden.
- 24 - 26 July 2024 **Data-driven Dynamical Systems Summer School**,
University of Bremen, Germany.
- 20 May - 21 June 2024 **Scientific Machine Learning for Simulation and Inverse Modelling**,
Digital Futures, Stockholm, Sweden.

- 10-12 January 2023 **WASP Winter Conference**,
Norrköping, Sweden.
- 6-10 June 2022 **Participate as student**,
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.

Computer Skills

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

Languages

- Languages Italian (Mothertongue), English (Fluent)