Aurora Poggi

Curriculum Vitae

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114 28 Stockholm, Sweden
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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 - 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 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.
14–15 January 2025	**WASP Winter Conference**, *WASP, Norrköping*, Sweden. Poster presentation
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)