Aurora Poggi

Curriculum Vitae

Lindstedtsvägen 25
114 28 Stockholm, Sweden
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Education

September - December 2025 — **Research visit**,
mathLab, SISSA, Trieste, Italy.
Focus on Graph Neural Networks (GNNs), Deep Operator Neural Network (DeepONet) and Neural ODEs on Calcium Signaling in cell culture

January 2023 - — **PhD student in Applied and Computational Mathematics founded by the WASP Program**,
Stochastic models for dynamics of highly coupled systems and applications to imaging,
KTH Royal Institute of Technology, Stockholm, Sweden.

2020 - 2022 — **Master's degree in Mathematics**,
With focus in the following courses: 'Statistical learning', 'Mathematical modeling in the applied sciences', 'Stochastic calculus',
University of Verona, Italy.

June 2022 - September 2022 — **Internship**,
Master's Thesis: *"Electricity Price Forecasting via statistical and deep learning approaches: the German case", Supervisor: Luca Di Persio and Co-Supervisor: Matthias Ehrhardt*,
Bergische Universität Wuppertal, Germany.

2021 - 2022 — **Erasmus + Study**,
Courses: *"Adaptive methods for data based decision making" and "Interest rate modelling via SPDE's"*,
University of Oslo, Norway.

2022 - 2022 — **Course: Computational Algebra**,
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 and Summer Schools

6-11 July 2026 — **International Conference on Machine Learning (ICML)**,
Seoul, South Korea.
Attended

14-15 January 2026 — **WASP Winter Conference**,
WASP, Örebro, Sweden.
Poster presentation

22 - 26 September 2025 — **Young Applied Mathematicians Conference (YAMC) 2025**,
Padova, Italy.
Talk

4 - 8 August 2025 **Mathematical and Scientific Machine Learning (MSML) 2025**,
Naples, Italy.
Poster presentation

28 July - 1 August 2025 **Applied Inverse Problems (AIP) 2025**,
FGV, Rio de Janeiro, Brasil.
Talk at MS11 XAIP

15 - 29 June 2025 **Physics-Informed Neural Networks (PINNs) 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 **International Conference on Computational Finance (ICCF2022)**,
Bergische Universität Wuppertal, Germany.
Attended

Publications

Preprint

September 2026 **Equation free data-driven modelling of chaotic processes**, ***Aurora Poggi***, *Marco Martens, Hjalmar Brismar, Ozan Öktem, Liviana Palmisano*, Submitted, Arxiv [arXiv:2609.08530].

Conference Papers

January 2026 ***SEMI-LAGRANGIAN PHYSICS-INFORMED NEURAL NETWORKS (SL-PINNS) FOR SOLVING HYPERBOLIC PARTIAL DIFFERENTIAL EQUATIONS (PDES)***, *Edoardo Monti, Kateryna Morozovska,* ***Aurora Poggi****, Khemraj Shukla*, AI&PDE workshop at ICLR.

Journal Papers

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

Computer Skills

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

Languages

Languages Italian (Mothertongue), English (Fluent)

Saturday 24th October, 2026