

# Pierluigi Vallarino

## Curriculum Vitae

September 2025

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Birth: 26/4/1995

WWW: Personal website

### Employment

<b>Università della Svizzera Italiana, Lugano</b> Post Doctoral researcher in Econometrics	2025 - present
<b>Erasmus University Rotterdam, Erasmus School of Economics</b> External lecturer, Financial Econometrics	2025 - present
<b>Erasmus University Rotterdam, Erasmus School of Economics</b> Post Doctoral researcher in Econometrics	2023 - 2025
<b>LUISS University, Department of Economics and Finance</b> External teaching assistant	2021 - 2024

### Education and Qualifications

<b>Aarhus University</b> PhD in Economics Supervisors: Leopoldo Catania and Alessandra Luati Thesis: "Semi-parametric modelling of time-varying probability distributions" Assessment committee: Kim Christensen, Andrew C. Harvey and Jean-Michel Zakoïan	2020 - 2023
<b>ETH Zürich and University of Zürich</b> M.Sc. Quantitative Finance Specializations: derivatives pricing, asset and risk management Grade: Summa cum laude (first class equivalent)	2018 - 2020
<b>LUISS University</b> B.Sc. Economics & Finance Specializations: econometrics and finance Grade: 110/110 cum laude (first class equivalent)	2014 - 2017

### Visiting Periods

<b>CREST - ENSAE, Paris</b> Local host: C. Francq and J.M. Zakoïan	May 2023 - June 2023
<b>University of Cambridge</b> Local host: Andrew Harvey	September 2022 - March 2023
<b>University of Bologna</b> Local host: Alessandra Luati	January 2021

### Research Fields

Financial and Time Series Econometrics; Factor Models; Time-Varying Parameters Models; Quantitative Risk and Asset Management.

### Published papers

"Economic Vulnerability is State Dependent", with L. Catania and A. Luati, *The Econometrics Journal*, forthcoming Available on SSRN.

### Working Papers

"Dynamic Kernel models", *R&R, Econometric Theory*. Available on SSRN

"New Rank-based Tests and Estimators for Common Primitive Shocks", with F. Carlini and M. Rubin, *R&R, Journal of Econometrics*. Available on SSRN

"A general randomized test for alpha", with D. Massacci, L. Sarno and L. Trapani. Available on SSRN.

"A new class of order preserving linear transformations with applications to multiple quantiles models", with L. Catania and A. Luati, *Working Paper*.

"M-estimation of dynamic multiple quantiles models", with L. Catania *Working Paper*.

## Seminars

- 2025 ESSEC Business School, Paris  
CREST-ENSAE
- 2024 Center for Econometrics and Business Analytics
- 2023 University of Verona  
University of Vienna  
Erasmus University Rotterdam  
CREST-ENSAE
- 2022 PhD seminars in Econometrics, University of Cambridge

## Conferences and Workshops

- 2025 17th Annual SoFiE Conference (ESSEC Paris); NBER-NSF Time Series Conference (Rutgers University)
- 2024 XIV Workshop in Time Series Econometrics (Universidad de Zaragoza); Virtual Time Series Seminars: Workshop for Junior Researchers; European Summer Meeting of the Econometric Society (Erasmus University Rotterdam); Financial Econometrics Meets Machine Learning (Università della Svizzera Italiana, Lugano); 1st CAM-Risk conference (University of Pavia)
- 2023 Virtual Time Series Seminars: Workshop for Junior Researchers; Italian Congress on Econometrics and Empirical Economics (University of Cagliari); NBER-NSF Time Series Conference (Université du Québec à Montréal)
- 2022 International Conference on Computational and Financial Econometrics (King's College London); EC<sup>2</sup> Conference (ESSEC Business School, Paris); International Econometrics PhD Conference (Erasmus University Rotterdam); IAAE Annual Conference (King's College London); Vienna-Copenhagen Conference on Financial Econometrics (University of Copenhagen); QMUL Economics and Finance Workshop (Queen Mary University of London)
- 2021 International Conference on Computational and Financial Econometrics (King's College London); European Winter Meeting of the Econometric Society (University of Barcelona); SiDE Workshop for PhD students in Econometrics and Empirical Economics (University of Bologna); RCEA Time Series Workshop; IAAE Annual Conference (Erasmus University Rotterdam)

## Teaching experiences

### Teaching

- Erasmus University, Erasmus School of Economics** Spring 2024, 2025  
Course: Case studies in financial econometrics  
Level: graduate. Role: lecturer.
- Erasmus University, Erasmus School of Economics** Spring 2024, 2025  
Course: Quantitative methods for finance (volatility and tail-risk management)  
Level: undergraduate. Role: lecturer.
- Aarhus University, Department of Mathematics** Spring 2022  
Course: Fixed income analysis  
Level: graduate. Role: lecturer.
- Aarhus University, Department of Mathematics** Fall 2020, 2021  
Course: Pricing and hedging of derivatives  
Level: graduate. Role: lecturer and teaching assistant.

### Supervision

- Erasmus University Rotterdam, Erasmus School of Economics** Fall 2023 - present  
Topics: Machine Learning, Financial and Time Series Econometrics  
Level: undergraduate and graduate. Role: main supervisor.
- LUISS University, Departments of Economics and Finance** Spring 2021 - Fall 2024  
Topics: Financial and Time Series Econometrics  
Level: graduate. Role: co-supervisor.
- Aarhus University, Departments of Economics and Mathematics** Spring 2021 - Spring 2023  
Topics: Machine Learning, Financial and Time Series Econometrics  
Level: undergraduate and graduate. Role: main supervisor.

## Grants and Awards

- 2025 NBER-NSF grant for conference participation  
Best paper award at the SoFiE pre-conference for young scholars  
SoFiE grant for conference participation
- 2022 IAAE grant for conference participation  
Otto Mønstedts Fond grant for conference participation  
Otto Mønstedts Fond grant for a research stay abroad
- 2020 PhD Scholarship
- 2015 Two years scholarship for graduate studies offered by the Italian union of managers (Federmanager)

## Professional Membership

Econometric Society (ES); Society for Financial Econometrics (SoFiE); Società Italiana di Econometria (SIdE).

## Referee Activity

Served as referee for: *Digital Finance*, *Indian Economic Journal*, *International Journal of Forecasting*, *Journal of Econometrics*, *Journal of Financial Econometrics*, *North American Journal of Economics and Finance*, *Quantitative Finance*, *Quarterly Review of Economics and Finance*, *Review of Derivatives Research*, *Statistical Methods and Applications*.

## Computer Skills

R, Matlab, Python, C++, L<sup>A</sup>T<sub>E</sub>X, MS Office.

## Training

- 7/2021 SIDE Summer School Score-Based Approaches to Econometric Modelling  
Lecturers: P.R. Hansen and S.J. Koopman

## Language

Italian: native; English: fluent; French: beginner.

## Other relevant experiences

- Lecturer, Sole 24 Ore Business School** November 2024-April 2025  
Lecturer in Statistical and Machine Learning forecasting methods at the Executive master in *AI for Leaders* offered by the Sole 24 Ore Business School.
- ReadingMetrics: a reading group in financial econometrics** February 2022-June 2022  
Originator and co-organizer of a virtual reading group in financial econometrics and machine learning. Scholars from 11 universities presented at the meetings, which were attended by more than 50 people. Organized the final workshop for young scholars.
- Research Assistant** February 2020-June 2020  
Research assistant for Paolo Santucci de Magistris (LUISS Guido Carli).  
Main tasks: data preparation and preliminary data analysis for the creation of a novel economic policy uncertainty index.
- Research Assistant** June 2017-September 2017  
Research assistant for Giuseppe Ragusa (Sapienza University of Rome & London Business School).  
Main tasks: data preparation for a yield-curve related project.
- Mediobanca S.p.A. London, Fixed Income Sales and Structuring** December 2016-February 2017  
Internship within the “Fixed Income Sales and Structuring” division.  
Main tasks: market analysis of the European market for certificates; prepared and delivered presentations regarding investment opportunities in structured products; analysed the pay-off structure of derivatives based investment and risk management solutions.

## References

Leopoldo Catania - *Associate Professor*  
Aarhus University  
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Paolo Santucci de Magistris - *Professor of Econometrics*  
Department of Economics and Finance  
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Roma, Via Romania 32; 00197  
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Lucio Sarno - *Professor of Finance*  
Cambridge Judge Business School  
Cambridge, Trumpington Street; CB2 1AG  
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Lorenzo Trapani - *Professor of Econometrics*  
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