
Education

2017 - 2021 **Ph.D. in Economics**, *Scuola Superiore Sant'Anna*, Pisa.

Thesis *Three essays on the economics of Micro-Macro interactions*

Supervisor Prof. Giovanni Dosi

* Thesis defended on Sep. 2022.

2013 - 2016 **MSc in Physics**, *Physics Department A. Righi*, University of Bologna.

Thesis *Aspects of supergeometry in locally covariant quantum field theory*

Supervisor Prof. Elisa Ercolessi

Cosupervisor Dr. Alexander Schenkel

2010 - 2013 **BSc in Physics**, *Physics Department A. Volta*, University of Pavia.

Thesis *Il problema di Riemann-Hilbert scalare*

Supervisor Prof. Enrico Vitali

Teaching experience

Jun. - Jul. 2022 **Teaching assistant**, *Money and Banking*, Summer term course, New York University - Florence.

30 hours. Topics covered: basics of the banking sector with an emphasis on its function, position and importance in financial markets as well as a role in the recent financial crisis. The role of the Federal Reserve (and other CBs) as a lender of last resort during the recent, and previous, financial crises, its conventional and unconventional monetary policy tools.

Apr. - Jun. 2013 **Teaching assistant**, *Course of "Fisica 1 - Modulo Termodinamica"*, Università degli studi di Pavia.

30 hours of lectures devoted to problems and exercises in Thermodynamics. Supporting students who were preparing for their final exam in 1st-year Mechanics and Thermodynamics.

Work experience

Jan. 2022 - **Postdoctoral researcher**, *Scuola Superiore Sant'Anna*, Institute of Economics.

Factor analysis of micro level data. Developments of advanced econometric techniques to the identification of regularities in the dynamic aggregates of microeconomic data. Applications: export trade customs transactions, bank performance indicators, matched employer-employee datasets.

- Oct. 2020 - Oct. 2021 **Trainee**, *European Central Bank*, Risk Management Directorate, Risk Strategy Division.
Analysis of the risk associated to credit claims accepted as collateral for the Eurosystem monetary policy operations.
- May 2016 - Sep. 2017 **Product Manager**, *Allnet.Italia S.p.A.*
Pre-sales and post-sales product management activities with focus on long-term and short-term analysis of the IT market trends. Production of monthly reports and forecast of sales for marketing campaigns and stock levels management.
- Nov. 2015 - Apr. 2016 **Students tutor**, Administrative office of the Collegio Superiore di Bologna.
Administrative office support for the Collegio Superiore di Bologna: seminar and course scheduling, lesson planning, projecting models for databases, calculus sheets and several other documents.

Grants and excellence programs

- 2013 - 2016 **Collegio Superiore di Bologna**, *University of Bologna*.
The Collegio Superiore offers advanced education selecting particularly motivated students from the University of Bologna: seminars and interdisciplinary classes complete the University activities. Students benefit from tutoring services, an exemption of tuition fees, a yearly grant for living costs and a housing service at the Residenza di Studi Superiori.
Tutor Prof. Elisa Ercolessi
- Mar. 2013 - Jun. 2013 **Master's thesis scholarship funded by the School of Science of the University of Bologna**, *Department of Mathematics and Computer Science*, Heriot-Watt University, Edinburgh.
Project title *Aspects of supergeometry in locally covariant quantum field theory*
The project was performed during a four months stay at the Department of Mathematics, under the supervision of Prof. Elisa Ercolessi (UniBo) and Dr. Alexander Schenkel (HWU).
- 2010 - 2013 **Collegio Ghislieri**, *Pavia*.
Students of Collegio Ghislieri benefit from accommodation, the opportunity of international exchanges with eminent European institutions and language courses. Moreover, academic skills are improved in a constant cultural and scientific collaboration between student and fellows.
- 2010 - 2013 **Istituto Universitario di Studi Superiori (IUSS)**, *Pavia*.
IUSS offers a complementary education program to a small number of students, selected among five University colleges of the University of Pavia. This program made up of two classes per year and an annual appraisal of the academic performance.

Working papers

Title	Stress Testing with Multi-faceted Liquidity: the Central Bank Collateral Framework as a Financial Stability Tool
Collection	ECB Working Paper Series - No. 2814
Coauthors	Claudio Barbieri, Ulrich Bindseil
Title	Factoring in the Micro: a Transaction-level Dynamic Factor Approach to the Decomposition of Export Volatility
Collection	LEM Working Papers - http://www.lem.sssup.it/wplem.html
Coauthors	Matteo Barigozzi, Marco Grazzi, Daniele Moschella

Conferences and seminars

ECB Working group on stress testing	<i>Frankfurt, Sep. 2022</i>
Model Evaluation and Causal Search	<i>Pisa, Sep. 2022</i>
XXIII Conference on International Economics	<i>AEEFI - Malaga, Jun. 2022</i>
7th Link Employer-Employee Dataset Workshop	<i>LEED - Porto, Jun. 2022</i>
Comparative Analysis of Enterprise Data	<i>CAED - Coimbra, Nov. 2021</i>
Annual meeting of the Int. Ass. of Applied Econometrics	<i>IAAE - Rotterdam (Virtual), Jun. 2021</i>
Economics and Finance PhD Seminars Tor Vergata	<i>Rome (Virtual), May 2021</i>
Economic Policy Seminars Series UniCatt	<i>Milano (Virtual), Apr. 2021</i>

Languages

Italian	Native	<i>Mother Tongue</i>
English	Fluent	<i>C1 in the CEFRL</i>

Coding and software

LINUX, Ubuntu, MS DOS, C++ Mathematica, MySQL	<i>Basic</i>
Python, R, Matlab, VBA, MS Office, L ^A T _E X, IP networks	<i>Advanced</i>

Date October 17, 2022