

Federica Di Paola

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MSc graduate in *Economics and Econometrics*. Skilled in applied econometrics with experience in panel analysis and structural macro modelling. Very creative, and a diligently passionate student.

Education

Master's Degree in *Economics and Econometrics*, University of Bologna Oct 2025

- Grade: 104/110; Average grade: 26.31/30 (3.7 GPA).
- Thesis in macroeconometrics: Can a neutral supply shock end up having redistributive effects? *An empirical Bayesian analysis on consumption margins*, supervised by Professor Filippo Piermaria Ferroni.
- Erasmus student in *Economics* at Ludwig-Maximilians-Universität of Munich (Apr 2025 - Jul 2025).

Merit-based training program, Camplus Merit College

Sep 2020 - Apr 2025

Bachelor's Degree in *Economics, Markets and Institutions*, University of Bologna

Jul 2023

- Grade: 110/110; Average grade: 27.76/30 (3.8 GPA).

High School Diploma Cambridge Curriculum, Liceo Scientifico G. Salvemini

Jul 2020

- 100/100
- Passed IGCSE exams: Biology, English as a Second Language, Geography, Latin, Mathematics.

Placed on the reserve list following a competitive multi-stage selection process.

Work Experience

Teaching Assistant at University of Bologna

Sep 2025 – on going

- 60 hours in *Microeconomics* for Professor Daniela Iorio; 15 hours for *Introduction to Behavioral Economics* for Professor Maria Bigoni; 30 hours in *English for Economics* for Professor Antonietta Iacoviello. All undergraduate course, Department of Economics.

Research Assistant - on paper about Organized Crime and Targeted Repression with Professor Paolo Vanin and PhD graduate Alessio Carrozzo Magli

Jun 2024 – Sep 2024

- Built an original cross-sectional dataset (700 obs) on criminal organizations, based on public records and media sources. Cleaned and structured qualitative data using Stata, performed preliminary empirical checks.
- Conducted panel regressions with shock indicators that evaluated both the degree of violence of the clan, and levels of whistleblowing.
- Created geographic visualizations (choropleth maps) to illustrate spatial patterns.

Head of Research and Editorial Section at Starting Finance Club Bologna

Sep 2023 - Sep 2024

Conducted and coordinated economic and financial research for editorial content related to the city of Bologna, leading topic selection and brainstorming sessions, and managing writing and editing workflows within a student-led publication team.

Academic Projects

Macroeconometrics - BVAR (Thesis)

Oct 2025

This thesis asked whether an exogenous shock can generate redistributive effects across households at the consumption level. A BVAR with pure sign restriction approach is used to identify a supply, real and nominal demand shocks à la Canova

and De Nicolò (2003). The purpose was to evaluate their impact on consumption margins. Also, conditional on a given shock, to detect whether the tails' reactions were symmetric or could imply some heterogeneity.

Macroeconometrics - DSGE

May 2025

Autonomously estimated a New Keynesian DSGE model inspired by insider-outsider dynamics theorized by Galí (2022) to test the empirical relevance of hysteresis in euro area. A modified policy rule that targets both inflation and employment is compared to a standard Taylor Rule.

Macroeconometrics - SVAR

Jan 2025

Replicated Blanchard and Perotti's SVAR with institutional restrictions, on US quarterly macro data (1950–1979). Estimated structural parameters and generated IRFs, finding that fiscal spending had a stronger and faster impact on GDP than taxation (multiplier: 0.67 vs –0.33). Observed some policy implications.

Hard Skills

Excel – Advanced: pivot tables, nested formulas, conditional formatting, database connections.

Stata – Advanced: data manipulation, geospatial mapping, panel data analysis (OLS, FE, RE, FD, GMM, Probit).

Matlab – Advanced: cointegration, stationarity testing, VAR, Structural VAR (Cholesky, Institutional Restrictions, Sign Restrictions), Bayesian VAR with structural identification, custom performance metrics.

Dynare – Intermediate/Advanced: Bayesian estimation of DSGE models, model specification with `if` logic for alternative regimes, use of measurement equations.

R – Basic (tidyverse). Familiar with PCA, factor analysis, clustering, and discriminant analysis.

Gretl - Basic: econometric analysis and model estimation on cross-sectional and time series data.

LaTeX – Advanced: academic typesetting, Beamer presentations, and full customization of reports and documents.

Soft skills

I am very empathetic in a group work, able to stand up and propose my own perspective on a topic/issue. I pay attention to details. Under tight time constraints, I can determine when the first-best solution is no longer feasible and switch to a second-best alternative to complete the assigned task.

Languages

Italian - Mother tongue, C2

English – Proficient (C1, CEFR); IELTS Academic: 7.5 (Dec 2025)

French - Basic, A1

Volunteering

Associazione Il Lungomare che Vorrei

Volunteers Assisted in handmade pasta production for charity fundraising and provided math tutoring to high school students.

Feb 2026 – on going

Nov 2024 – Mar 2025