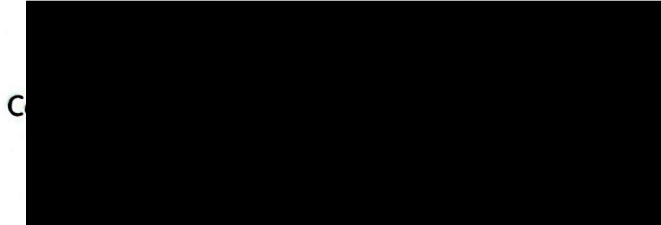


Curriculum Vitae

Contact Information

Name Giovanni Tumbarello



Professional Experience

Nov. 2025 – Present **Ph.D. Student**, *University of Palermo*, Palermo, Italy
Department of Economics, Business and Statistics (DSEAS)

- **Research Development:** Formulated a doctoral research proposal on resource misallocation in Sub-Saharan Africa. Working on research activities for the PRIN-2022 APPLICATE project and finalizing a working paper on intergenerational educational mobility in Italy.
- **Advanced Research Training:** Completed doctoral-level coursework in causal inference and currently attending Data and Models for Managerial Decisions, focusing on the application of advanced econometric models to data-driven economic and managerial decision-making.
- **Academic Support:** Assisted professors with course management, examination oversight, and student mentorship.
- **Scientific Engagement:** Participating in departmental research seminars and workshops, engaging with international scholars to discuss emerging trends in Economics.
- **Data Gathering and Management:** Initiated the preliminary structuring and cleaning of LSMS-ISA longitudinal datasets, preparing the computational environment for structural estimation.

Sep 2025 – Jan 2026 **Research Fellow (PRIN 2022), University of Palermo, Palermo**

Project: *Assessing Public Policy effectiveness in minimizing Local Impacts with Climate-related AdapTation Expenditures - APPLICATE.*

- **Data Management & Web Scraping:** Developed Python scripts for automated web scraping to extract financial and institutional data from Ministry of Interior (Finanza Locale) and OpenBDAP portals harmonizing large longitudinal datasets (1996–2025).
- **Climate Data Integration:** Managed high-resolution climate data (ERA5-Land) from Copernicus. Implemented an area-weighted attribution approach to map grid-level daily precipitation onto municipal surfaces, constructing precise intensity and duration indicators for hydro-geological shocks
- **Econometrics Implementation:** Designed and estimated Panel Fixed Effects models to analyze the interaction between climate shocks and political alignment. Investigated political favoritism in the allocation of emergency funds and the probability of "State of Emergence" declarations.
- **Policy Analysis:** Constructed a comprehensive dataset of local administrators' political orientation and inter-governmental linkages to isolate the impact of political alignment on fiscal transfers and public expenditures.
- **Dissemination:** Prepared and presented preliminary empirical results at the PRIN 2022 Workshop (DSEAS, Nov 2025).

Mar. – Jun. 2025 **Economic Research Internship, University of Palermo, DSEAS**

Project: Intergenerational Educational and Income Mobility in Italy

- **Research Design:** Conducted a comprehensive study on the determinants of intergenerational social mobility, managing the full research pipeline from theoretical framework to empirical estimation.
- **Microdata Management:** Expertly handled complex household survey data from ISTAT and the Bank of Italy (SHIW). Performed advanced data cleaning, harmonization, and construction of socio-economic indicators.
- **Econometric Modeling:** Specified and implemented econometric models, including OLS, Logit, and Ordered Logit (Ologit), to identify patterns of intergenerational transmission.
- **Technical Proficiency:** Leveraged Stata for rigorous statistical testing and dataset structuring, ensuring robustness through sensitivity analysis.
- **Scientific Reporting:** Produced a comprehensive final research thesis (Master's Thesis) in English, providing a detailed interpretation of empirical findings and their implications for public policy and social equity.

Jun. – Jul. 2023 **Accounting & Tax Intern, Studio Genna & Associati, Marsala, Italy**
Accounting and Tax Consultancy Firm

- **Accounting Software:** Gained hands-on proficiency with professional ERP and financial management software for corporate accounting.
- **Advisory Support:** Assisted in providing fiscal and tax consultancy services for a diverse portfolio of corporate clients.
- **Information Management:** Streamlined the collection and organization of source documentation for financial reporting and regulatory compliance.
- **Bookkeeping Operations:** Systematically classified Accounts Payable and Receivable, ensuring the integrity and chronological accuracy of the general ledger.
- **Financial Statement Analysis:** Supported the review of balance sheets and income statements to assist in corporate performance evaluation.
- **Compliance & Filings:** Contributed to the drafting of statutory financial documents and tax filings under professional supervision.

Education

Nov 2025 – Present **Ph.D. Student in Economics, Business and Statistics, University of Palermo, Palermo**

Research Area: Applied Econometrics for Development Economics

- **Current Research:** Investigating agricultural productivity and resource misallocation in Malawi and Uganda. The research aims to evaluate the impact of input subsidy programs (e.g., FISP) and flexible seed vouchers on farmers' efficiency and input allocation using structural econometric approach.
- **Methodology:** Estimation of production functions using an Empirical Bayes approach to account for unobserved heterogeneity, structural distortions, and misallocation effects. Analysis is based on high-quality panel microdata from Malawi (IHS/IHPS) and Uganda (UNPS) within the World Bank LSMS-ISA framework.

Sep 2023 – Jul 2025 **Master's Degree in Economics and Finance, University of Palermo, Palermo, 110/110 Cum Laude**

Relevant Coursework: Advanced Microeconomics, Financial Econometrics, Economic Policy, International Economics, Mathematics for Economics and Finance, Public Economics, Probability and Stochastic Processes, Industrial Organization, Risk Management.

- **Econometric Analysis & Causal Inference:** Solid expertise in causal identification strategies, including Propensity Score Matching, Regression Discontinuity Design, Instrumental Variables (IV), and Difference-in-Differences (DiD), Panel Fixed Effects.
- **Advanced Modelling:** Proficiency in linear regression models (static and dynamic), Maximum Likelihood Estimation (MLE), and simultaneous equation models VAR and SVAR.
- **Economic Theory:** In-depth analysis of market equilibrium, fiscal policy (optimal taxation), and monetary policy analysis under rational expectations.
- **Technical Proficiency:** Advanced use of Stata and LaTeX for data management, dataset construction, and professional reporting of econometric results. Extensive experience with MATLAB, GAMS and Excel.
- **Research Skills:** Strong ability in data sourcing, organization, and implementation of complex economic models to evaluate market efficiency (perfect competition, oligopoly and monopoly).

Sep 2019 – Oct 2023 **Bachelor's Degree in Economics and Business Administration, University of Palermo, Palermo, 108/110**

Relevant Coursework: Microeconomics, Macroeconomics, Mathematics, Financial Mathematics, Statistics, Business Administration, Financial Accounting, Industrial Economics, Public Finance, Private, Commercial and Tax Law.

- **Economic Theory:** Solid foundation in micro and macroeconomics to understand market dynamics, consumer behavior, and firm theory.
- **Quantitative Analysis:** Proficiency in general mathematics, financial calculus, and statistics applied to economic and financial phenomena.
- **Accounting & Corporate Finance:** Practical skills in drafting and analyzing financial statements and managing corporate bookkeeping.
- **Legal Proficiency:** Comprehensive knowledge of the legal framework, including private, public, commercial, tax, and labor law.
- **Financial Systems:** Deep understanding of the functioning of financial markets, intermediaries, and the role of fiscal policy.
- **Market Analysis:** Ability to analyze market structures, industry dynamics, and the impact of institutional regulations.

Languages

Italian Native speaker
English Upper Intermediate (B2)

Interpersonal & Soft Skills

Communication

- Excellent oral and written communication skills, refined through academic presentations and technical documentation in both Italian and English.
- Ability to articulate complex economic concepts to diverse audiences, developed during Master's level seminars and internships.

Teamwork

- Proven ability to collaborate effectively in multicultural and academic environments, fostering a respectful and goal-oriented group dynamic.
- Strong cooperation skills developed through collaborative research projects and professional internships.

Adaptability

- High degree of flexibility and stress tolerance, with a proven track record of meeting tight deadlines in fast-paced professional environments.
- Proactive approach to problem-solving and the ability to integrate critical feedback to improve work quality and project outcomes.

Reliability

- Strong organizational skills, with experience in planning work phases and maintaining professional relations under pressure.

Technical & Software Skills

Statistical and Computational Software

- **Stata:** Advanced proficiency in data management, cleaning, and harmonization of complex microdata from institutional sources (e.g., SHIW (Bank of Italy), ISTAT, and LSMS-ISA). Expert in automating procedures via nested loops, panel data analysis, and advanced econometric modeling (e.g., OLS, MLE, Logit/Probit, Panel Fixed Effects, DiD, IV)
- **Python:** Experience in data organization, harmonization and large-scale dataset construction. Proficient in web data scraping (e.g., HTML parsing) for automated data extraction and specialized in processing high-resolution climate data (ERA-5 Land) for rainfall and temperature aggregation at the grid level.
- **MATLAB & GAMS:** Solid experience in mathematical modeling and optimization. Used MATLAB for OLS, MLE implementation or missing data imputation; GAMS for linear/non-linear programming and portfolio optimization (Markowitz and CVaR).

GIS & Spatial Analysis

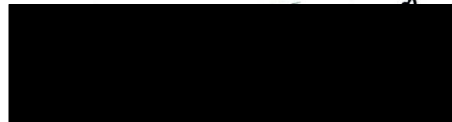
- **Spatial Data Management:** Skilled in handling shapefiles and georeferenced datasets such as **ARC2** and **CHIRPS**.
- **Mapping:** Proficient in producing professional thematic maps and heatplots using **Stata** and **ArcGIS/QGIS**.

Technical Writing and Reporting

- **LaTeX:** Expert in producing professional academic reports, drafts, and econometric tables.
- **MS Office:** Advanced use of Excel (Pivot tables, Solver, Data Analysis ToolPak), Word, and PowerPoint.

Date: June 21, 2026

Signature:

A solid black rectangular box used to redact the signature.