

# Pablo Mileni Munari

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## EDUCATION

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### Toulouse School of Economics

*Ph.D. in Economics (expected)*

- Dissertation: Essays in Macroeconomics
- Best First-Year PhD Paper

Sept 2020 – Spring 2026

*M.Sc. in Economics, Summa cum laude*

Sept 2019 – June 2020

### Bocconi University

*B.Sc. in Economics and Social Sciences*

Sept 2011 – June 2015

## EXPERIENCE

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### Toulouse School of Economics

*Research Assistant for Prof. Martial Dupaigne*

May 2020 – Aug 2020

- Coded pipelines to automate data retrieval via APIs and harmonize cross-country housing investment time-series
- Ran spectral time-series analysis to assess short, medium, long-run co-movements of housing investment and GDP

*Teaching Assistant for Macroeconomics (Master's and Ph.D. level)*

Sept 2021 – Dec 2024

### Planeta Renewables

*Co-founder and Business Developer*

Feb 2016 – Oct 2018

- Co-founded and scaled a renewable energy startup, leading strategy, operations, and market rollout
- Worked cross-functionally with engineers, suppliers, and media stakeholders to align technical and market objectives
- Presented business plan to investors and business leaders to secure funding and partnerships

## PAPERS

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### Beyond Skills: Firms, Automation, and Wage Inequality

- Studied the impact of automating machines on wage inequality using large-scale matched employer–employee data
- Estimated automation effects on the skill premium and firm workforce composition via difference-in-differences methods
- Built a general equilibrium model with heterogeneous firms to map DiD estimates into automation effect on wage inequality
- Implemented numerical optimization algorithm to solve equilibrium with an inner–outer loop root-finding routine

### Anatomy of the Passthrough of Productivity Shocks (with A. Zaloilo and W. Xu)

- Constructed IV from autocovariance restrictions to identify exogenous firm productivity shocks
- Using nationwide admin records, showed high-wage jobs absorb shocks via pay; low-wage jobs via hours and layoffs
- Built a dynamic contracting model that generates firm-worker interactions explaining these patterns
- Engineered optimization pipeline with interpolation, global search and local optimization to solve model efficiently

### Macroeconomic Effects of Multiple Banking Regulations (with F. Boissay and F. Collard)

- Analyzed how combined bank capital and liquidity rules impact financial stability and economic activity
- Built a general equilibrium model and derived the optimal policy design using welfare-maximization techniques
- Calibrating model to U.S. data, showed joint capital-liquidity rules improves welfare, supporting Basel III framework

## SEMINARS AND WORKSHOPS

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- University College of London (June '25), University of California Santa Barbara & Vigo University (July '24), Essex, RHUL and Bristol Junior SAM workshop (June '24), Princeton University (October '22)

## LEADERSHIP AND SERVICE

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### Thomistic Institute Toulouse (Co-founder and President)

Feb 2024 – Present

- Co-founded and lead a cultural institute with 20+ volunteers, academic partnerships, and regular public events

## SKILLS

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- R, Julia, Matlab, Stata, SAS
- Econometrics (causal inference, time-series, large-scale data analysis), Optimization, Structural Modeling
- Italian and Spanish (native), English and French (fluent)