

FEDERICO RICCA

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Vancouver, BC
+1 (778) 847-6384
ricca.federico@gmail.com

PROFILE

- PhD candidate in Economics, 6+ years of experience in applied causal inference research.
- Expertise in Data Science, Machine Learning, reduced form and structural methods.
- Citizenship: Italian, Canadian Permanent Resident.

EDUCATION

PhD in Economics - University of British Columbia April 2025 (expected)

- Political Economy, Public Finance, Applied Microeconomics, Industrial Organization.
- Presented original research at 6+ conferences in North America and Europe (incl. AEA, EEA, UEA).
- Won and managed \$29,000 in research grants.
- References: [Prof. Francesco Trebbi](#), [Prof. Kevin Milligan](#), [Prof. Matilde Bombardini](#), [Prof. Terry Moon](#).

MSc and BSc in Economics - Bocconi University 2012-2018

- 110/110 cum laude, Visiting Student at [IGIER](#) research institute.

WORK EXPERIENCE

Teaching Assistant - University of British Columbia 2020-today

- Teaching Assistant for 12 courses, with more than 95% favorable student reviews.
- Taught Econometrics, Applied Methods, and Game Theory to audiences with no prior experience.

Research Assistant for Prof. Francesco Trebbi - UBC/UC Berkeley 2018-today

- Drafted in-depth economics research literature reviews.
- Validated identification assumptions and Maximum-Likelihood Estimation of a custom structural model.
- Collected and analyzed large datasets on local government spending, proprietary financial data (+1M securities), and administrative U.S. individual-level voter registration data (+200M records).
- Guest lecturer for a PhD-level class in Political Economy at Haas School of Business, UC Berkeley.

Research Assistant for Prof. Massimo Morelli - Bocconi University 2016-2018

- Constructed hyper-local (NUTS3) Shift-Share IV of import competition in EU countries.
- Estimated a triple Diff-in-Diff model of the effect of import competition on local elections.

RESEARCH

[The Price of Diversity: Evidence from Municipal Bonds](#) (Job Market Paper)

- High-dimensional Fixed Effects model and Shift-Share IVs estimates applied to the pricing of high-frequency municipal bonds data (+500k unique issues from 2004 to 2019).
- Machine Learning (LightGBM) prediction of bond prices (0.2 standardized RMSE, 96% R^2).

[Minority Underrepresentation in U.S. Cities](#) (with [Francesco Trebbi](#))

- Diff-in-Diff, Event Study, and custom structural survival model GMM estimates of the effect of policy changes on political representation and voter registration in the U.S.

TECHNICAL SKILLS

Programming: Python, Stata, Julia, ArcGIS, SQL, MATLAB, R.

Analytics: Diff-in-Diff, Event Studies, Instrumental Variables, Regression Discontinuity, Randomized Control Trials, Synthetic Controls, Clustering, Discrete Choice models, GMM and Maximum-Likelihood Estimation, Causal Machine Learning, Boosted Random Forests, Neural Networks, A/B testing.