Filippo Palomba

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Education

2027 (expected)	Ph.D. in Economics, Princeton University
2019	M.Sc. in Economic and Social Sciences, Bocconi University
2016	B.Sc. in Economics and Management, University of Padua

References

Professor Matias D. Cattaneo
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Professor Ulrich K. Müller
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Professor Kevin Dano
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Professor David Lee
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Job Market Paper

"Sensitivity Analysis in Population Shares."

We introduce a general framework to assess the sensitivity of a target estimand to distributional assumptions. Our sensitivity parameter is the share of the population for which such assumptions may not hold. We derive bounds on the values the estimand can take over a set of candidate distributions that lay within a nonparametric neighborhood of the baseline specification. We recast the infinite-dimensional optimization problems underlying the bounds as tractable finite-dimensional programs. We propose plug-in estimators for the bounds and characterize their large-sample properties. We also show that our bounds recover exact nonparametric sharp bounds at no additional computational cost, and introduce summary measures that separate misspecification uncertainty from sampling uncertainty and rank studies by robustness. We apply our framework to assess the robustness of counterfactual predictions in structural models and of average treatment effects in randomized experiments with attrition. Our summary measures price an additional percentage point of robustness in the applications at between $2*k* *and* $141*k*.

Publications

1. "Uncertainty Quantification in Synthetic Controls with Staggered Treatment Adoption". With Matias D. Cattaneo, Yingjie Feng, and Rocío Titiunik, forthcoming at *Review of Economics and Statistics*, 2025+.
2. "Making Subsidies Work: Rules vs. Discretion". With Federico Cingano, Paolo Pinotti, and Enrico Rettore, *Econometrica*, 2025.
3. "`scpi`: Uncertainty Quantification for Synthetic Control Methods". With Matias D. Cattaneo, Yingjie Feng, and Rocío Titiunik, *Journal of Statistical Software*, 2025.
4. "Leveraging Covariates in Regression Discontinuity Designs". With Matias D. Cattaneo, *IZA World of Labor* (invited, peer-reviewed), 2025.
5. "A Causal Framework for Evaluating Deferring Systems". With Andrea Pugnana, Jose Alvarez, and Salvatore Ruggieri, *Proceedings of the 28th International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2025.

6. "Getting Away from the Cutoff in Regression Discontinuity Designs", *Stata Journal*, 2024.
7. "The Selection of Return Migrants: Some Evidence and a Model-based Analysis". With Joseph-Simon Görlach. Prepared for the *World Scientific Encyclopaedia of Global Migration*, Vol. 3, Ch. 5, by World Scientific Publishers, 2024.
8. "Granting More Bang for the Buck: The Heterogeneous Effects of Firm Subsidies". With Federico Cingano, Paolo Pinotti, and Enrico Rettore, *Labour Economics*, 2023.

Working Papers

1. "Treatment Effect Heterogeneity in Regression Discontinuity Designs". With Sebastian Calonico, Matias D. Cattaneo, Max H. Farrell, and Rocío Titiunik.
2. "`rdhte`: Conditional Average Treatment Effects in RD Designs". With Sebastian Calonico, Matias D. Cattaneo, Max H. Farrell, and Rocío Titiunik.
3. "Sequential Decision Problems with Missing Feedback".

Statistical Software

`scpi`	Synthetic controls with staggered adoption *(Python, R, Stata)*.
`rdhte`	Heterogeneous treatment effects in RD designs *(R, Stata)*.
`getaway`	Estimation and inference away from the RD cutoff *(Stata)*.
`rcrologit`	Random-coefficients rank-ordered logit models *(R)*.

Teaching

2025–26	SPI 508c: Econometrics for Policymakers (Advanced) *Evaluations: 4.95/5 in '25S and 4.70/5 in '26S (dept. averages: 4.60 and 3.89)*
2022–23	ECO 302: Undergraduate Econometrics *Evaluations: 4.50/5 in '22F and 4.56/5 in '23F (dept. averages: 3.92 and 3.56)*
2022	ECO 202: Statistics and Data Analysis for Economics *Evaluation: 3.95/5 in '22F (dept. average: 3.92)*

Refereeing

Econometric Theory (×1), *Epidemiology* (×1), *Journal of the American Statistical Association* (×4), *Journal of Business and Economic Statistics* (×1), *Journal of Causal Inference* (×1), *Journal of Econometrics* (×7), *Journal of Machine Learning Research* (×1), *Journal of the Royal Statistical Society, Series A* (×1), *Operations Research* (×2), *Statistical Science* (×1).

Fellowships & Awards

2023–24	Princeton Graduate School Teaching Award (6–8 of 3,000 students)
2022	Research Fellowship, Bank of Italy
2020–26	Princeton Graduate Economics Fellowship
2020–22	Marco Fanno Scholarship, UniCredit Foundation (€65,000)

Citizenship: Italy · Languages: Italian (native), English (fluent)

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