

# Joël Robert Terschuur

## Contact Information

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Website: <https://joelters.github.io/home/>  
Birth Date: 23/10/1995

## Education

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Ph.D. in Economics, <i>Universidad Carlos III de Madrid</i>	2020-Currently
Master in Economic Analysis, <i>Universidad Carlos III de Madrid</i>	2018-2020
Master in Economics and Finance, <i>Barcelona Graduate School of Economics</i>	2017-2018
Bachelor in Economics, <i>University of Utrecht</i>	2013-2016

## Academic Visits

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Visiting Ph.D. Student, <i>Brown University</i> , United States.	Spring 2023
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## References

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Juan Carlos Escanciano Universidad Carlos III <a href="mailto:jescanci@eco.uc3m.es">jescanci@eco.uc3m.es</a>	Toru Kitagawa Brown University <a href="mailto:toru_kitagawa@brown.edu">toru_kitagawa@brown.edu</a>	Miguel Ángel Delgado Universidad Carlos III <a href="mailto:delgado@est-econ.uc3m.es">delgado@est-econ.uc3m.es</a>
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## Research Interests

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Semiparametric inference, Machine Learning, Inequality of Opportunity

## Job Market Paper

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["Locally Robust Policy Learning: Inequality, Inequality of Opportunity and Intergenerational Mobility"](#)

**Abstract:** Policy makers need to decide whether to treat or not to treat different individuals. The optimal choice depends on the welfare function that the policy maker has in mind. I study a general setting for policy learning with general semiparametric Social Welfare Functions (SWFs), possibly defined by semiparametric U-statistics, which accomodate a wide range of distributional preferences. I use locally robust/orthogonal scores to provide strong statistical guarantees for the estimated policy rules even in observational settings where the propensity score is unknown. This work expands previous results in Athey and Wager (2021). Three main applications of the general theory motivate the paper: (i) Inequality aware SWFs, (ii) Inequality of Opportunity aware SWFs and (iii) Intergenerational Mobility SWFs. I use the Panel Study of Income Dynamics (PSID) to assess the effect of attending preschool on adult earnings and estimate optimal policy rules based on parental years of education and parental income.

## Working Papers

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"Machine Learning Inference on Inequality of Opportunity", with Juan Carlos Escanciano.

"Educational Inequality of Opportunity and Mobility in Europe".

## Books

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Causal Inference and Machine Learning: A Locally Robust Approach, with Juan Carlos Escanciano (forthcoming September 2024, Taylor & Francis Group).

## Teaching Assistant Experience

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*Universidad Carlos III de Madrid*

Econometrics I (Master in Economic Analysis, Ph.D. Program)	2020,2021,2022
Microeconometrics (Master in Industrial Economics and Markets)	2022
Mathematics for Economics II (Undergraduate)	2022
Introduction to Statistics (Master in Economic Analysis, Ph.D. Program)	2020, 2021
Econometrics (Undergraduate)	2020, 2021
Applied Economics (Master in Economic Analysis, Ph.D. Program)	2020
Quantitative Microeconomics (Undergraduate)	2019
Introduction to Mathematics for Economists (Undergraduate)	2019

## Research Assistant Experience

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*Universidad Complutense de Madrid*

Research assistant to Juan Gabriel Rodríguez	2017, 2018
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## Referee

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Journal of Business & Economic Statistics

## Other

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Languages: Spanish (Native), German (Intermediate), English (Fluent), Dutch (Basic)  
Computer: Stata, MATLAB, R, LaTeX, Git.