Matthew Alan Masten

matt.masten@duke.edu
www.mattmasten.com
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Positions

Associate Professor, Duke University, Department of Economics, July 2021–present
Kathleen Kaylor and G. Richard Wagoner, Jr. Assistant Professor of Economics, Duke University, July 2019–June 2021
Assistant Professor, Duke University, Department of Economics, July 2013–June 2019

Visiting

Visiting Assistant Professor, UC–Berkeley, Department of Economics, March–May 2017
Visiting Assistant Professor, UCL, Department of Economics, Sept–Nov 2016
Visiting Assistant Professor, MIT, Department of Economics, Oct–Dec 2015

Shorter visits

Visiting Assistant Professor, Northwestern University, Dept. of Economics, Sept 25–29, 2017
Professeur Invité, Toulouse School of Economics, Nov 14–25, 2016

Education

PhD in Economics, Northwestern University, 2013
Dissertation: "Equilibrium Models in Econometrics"
Dissertation Committee: Charles Manski (chair), Elie Tamer, Ivan Canay

MA in Economics, Northwestern University, 2009

BA in Economics and Statistics, University of Florida, 2008
Valedictorian, *Summa Cum Laude*

BS in Mathematics, University of Florida, 2008

Areas of specialization

Econometrics, Sensitivity Analysis, Instrumental Variable Methods

Research

Working papers

[12] "The Effect of Omitted Variables on the Sign of Regression Coefficients," with Alexandre Poirier (July 2022; latest draft Feb 2023); Stata package: `regsensitivity`

[11] "Assessing Omitted Variable Bias when the Controls are Endogenous," with Paul Diegert and Alexandre Poirier (June 2022; latest draft May 2023); Stata package: `regsensitivity`

Published papers

[10] "Choosing Exogeneity Assumptions in Potential Outcome Models," with Alexandre Poirier (2023), *Econometrics Journal (forthcoming)*

[9] "Assessing Sensitivity to Unconfoundedness: Estimation and Inference," with Alexandre Poirier and Linqi Zhang (2023), *Journal of Business & Economic Statistics (forthcoming)*; Stata package: `tesensitivity`

[8] "`ivcrc`: An Instrumental Variables Estimator for the Correlated Random Coefficients Model" (2022), with David Benson and Alexander Torgovitsky, *The Stata Journal*

[7] "Salvaging Falsified Instrumental Variable Models" (May 2021), with Alexandre Poirier, *Econometrica*

[6] "Inference on Breakdown Frontiers" (2020), with Alexandre Poirier, *Quantitative Economics*

[5] "A Practical Guide to Compact Infinite Dimensional Parameter Spaces" (2019), with Joachim Freyberger, *Econometric Reviews*

[4] "Identification of Treatment Effects under Conditional Partial Independence" (2018), with Alexandre Poirier, *Econometrica*; Stata package: `tesensitivity`

[3] "Random Coefficients on Endogenous Variables in Simultaneous Equations Models" (2018), *The Review of Economic Studies*

[2] "Identification of Instrumental Variable Correlated Random Coefficients Models" (2016), with Alexander Torgovitsky, *The Review of Economics and Statistics*; Stata package: `ivcrc`

[1] "A Specification Test for Discrete Choice Models" (2013), with Mark Chicu, *Economics Letters*

Other papers

"Partial Independence in Nonseparable Models" with Alexandre Poirier (June 2016); *Portions of this paper appear in [4] and [10]*

"How Should the Graduate Economics Core be Changed?" (2011), with Jose Miguel Abito, Katarina Borovickova, Hays Golden, Jacob Goldin, Miguel Morin, Alexandre Poirier, Vincent Pons, Israel Romem, Tyler Williams, and Chamna Yoon, *The Journal of Economic Education*

Honors, grants, & fellowships

Post-PhD

NSF CAREER Grant
Title: "Sensitivity Analysis in Econometrics"
Dates: July 1, 2020 to June 30, 2025
Award #1943138

Pre-PhD

Graduate Research Grant, The Graduate School, Northwestern University, 2012
Distinguished Teaching Assistant, Dept. of Economics, Northwestern University, 2010
Graduate Fellowship, Dept. of Economics, Northwestern University, 2008-2009
Outstanding Four Year Scholar, University of Florida, 2008
University Scholars Program Grant, University of Florida, 2007

Professional activities

Associate Editor

Annals of Economics and Statistics, July 2019–
Journal of Business & Economic Statistics, Sept 2021–

Conference and seminar presentations

2023: AEA Winter Meeting, University of Western Ontario, University of Illinois Urbana-Champaign, Michigan State University, Triangle Econometrics Conference

2022: Oxford University, Brown University, Texas A&M University, Asia Meeting of the Econometric Society, UC Irvine, UC San Diego, UCLA, The Ohio State University, Yale University, SEA Annual Meeting, University of Pennsylvania

2020: Econometric Society World Congress, University of Southern California

2019: University of Mannheim, Stata Conference in Chicago, The Georgetown Center for Economic Research Mini-Conference on Non-Standard Methods in Econometrics, the 2019 CeMMAP UCL/Vanderbilt Conference on Advances in Econometrics, SEA Annual Meeting

2018: Winter Econometric Society Meeting, Vanderbilt/CeMMAP Conference on Identification in Econometrics, Northwestern Econometrics Alumni Conference, Western Economic Association International Conference, CEME, Cornell, Yale MacMillan-CSAP Methods Seminar

2017: University of Pennsylvania, UC Berkeley, Yale University, University of Chicago Interactions Workshop, University of Wisconsin-Madison, Northwestern University, Auburn University, Triangle Econometrics Conference

2016: University of Chicago, University of Virginia, UC Davis, Summer Econometric Society Meeting (North American, China, and Asian), University of Texas-Austin, University College London, Cambridge University, University of Bristol, University of Leicester, London School of Economics, Toulouse School of Economics

2015: University of Tokyo, Princeton University, Columbia University, Cowles Summer Econometrics Conference, MIT/Harvard, Boston University, Triangle Econometrics Conference

2014: Cowles Summer Econometrics Conference

2013: UCLA, University of Pittsburgh, Duke University, University of Chicago Booth School of Business, Federal Reserve Board of Governors, Midwest Economics Association Annual Meeting, CEME Stanford/UCLA Conference, Boston College, University of Iowa, MIT/Harvard, The Ohio State University, Triangle Econometrics Conference, University College London, 7th International Conference on Computational and Financial Econometrics

Discussant

2023 "Econometrics in the Era of Machine Learning" conference at the University of Chicago
2022 SEA Annual Meeting
2018 Western Economic Association International Conference

Refereeing

AEJ: Applied Economics, Bernoulli, Econometrica, Econometric Reviews, Econometric Theory, Econometrics Journal, Journal of the American Statistical Association, Journal of Business and Economic Statistics, Journal of Applied Econometrics, Journal of Econometrics, Journal of Econometric Methods, Journal of Economic Education, Journal of Political Economy, National Science Foundation, Quantitative Economics, Review of Economics and Statistics, Review of Economic Studies, Stata Journal

Department Service

PhD Admissions Committee, Spring 2014, 2015, 2017, 2018, 2019, 2020, 2022
Junior Recruiting Committee, Fall 2015
Junior Recruiting Co-Chair, Fall 2020

Curriculum Committee, Fall 2020–Spring 2021
Mentoring Committee, Fall 2020–Spring 2021
Junior Faculty Happy Hour Organizer, Fall 2015–Spring 2020

Seminars and Conferences Organized

Duke Microeconometrics Breakfast Seminar Organizer: Fall 2014–present

Conference Organizer/Co-Organizer:

Class of 2017 Microeconometrics Conference, September 8, 2017
Class 0f 2018 Microeconometrics Conference, March 29, 2019
Class of 2019 Microeconometrics Conference, September 27, 2019
2022 CEME Conference for Young Econometricians, September 16–17, 2022
Class of 2020 and 2021 Microeconometrics Conference, May 5–6, 2023
2023 CEME Conference for Young Econometricians, Fall 2023

International Association for Applied Economics 2018 Conference Committee Member

PhD advising

Current students (*chair), with expected graduation year

Anna Ziff (2024)
Xinyue Bei (2024)
Muyang Ren* (2025)
Chelsea Kim (2025)
Jenn Kades (2025)

Former students (committee member), with first placement

2023: Paul Diegert, Toulouse School of Economics
2023: Sarah Raviola, Analysis Group
2021: Jackson Bunting, Texas A&M University
2021: Andrea Kiss, Carnegie Mellon, Postdoctoral Fellow
2018: Margaux Luflade, University of Pennsylvania
2017: Luis Candelaria Barrera, University of Warwick
2017: Fu Ouyang, Nankai University
2016: Takuya Ura, University of California–Davis
2016: Yichong Zhang, Singapore Management University

Teaching

Duke University

Causal Inference Bootcamp (interdisciplinary workshop and online module series), Summer 2013, 2014–2015

Advanced Econometrics (undergraduate), Spring 2019, 2020

First year PhD Econometrics 1, Fall 2020, 2021, 2022

First year PhD Econometrics 2 (first half), Spring 2015, 2016, 2017, 2018, 2019, 2020

Second year PhD courses:

Econometrics 3 (first half), Fall 2020, 2021, 2022
Nonparametric Sieve Estimation, Spring 2014, 2017
The Econometrics of Equilibrium and Simultaneity, Spring 2016, 2018
Robustness and Sensitivity, Spring 2019

Toulouse School of Economics

Simultaneous Equations: Past and Present (mini-course), Fall 2016

MIT

First year PhD Econometrics 1 (second half), Fall 2015

Northwestern University

When Exogeneity Fails: Systematic Methods for Robustness Checks (mini-course), Fall 2017

First year PhD econometrics sequence, teaching assistant for Charles Manski (Fall 2010, 2011), Joel Horowitz (Winter 2010), and Elie Tamer (Spring 2010)

Probability and Statistics, teaching assistant for Ivan Canay, Fall 2009