# Liyang Sun

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## Employment

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|---|---|
| Assistant Professor, CEMFI, Economics | July 2022 - |
| Postdoctoral Research Fellow, UC Berkeley, Economics & Statistics | July 2021 - June 2022 |

## Education

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|---|---|
| Massachusetts Institute of Technology (MIT), Ph.D., Economics & Statistics | |
| | June 2021 |
| Wellesley College, B.A., Economics & Mathematics (Summa Cum Laude) | May 2014 |

## Professional Activities

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|---|---|
| Fund Internship Program, IMF | 2020 |
| Research Assistant, Shaanxi Normal University CEEE (Xi'an, China) - Stanford REAP | |
| | 2017-2018 |
| Research Assistant to Professor Heidi Williams, NBER | 2014-2015 |

## Publications

"A linear panel model with heterogeneous coefficients and variation in exposure" with Jesse M. Shapiro
Forthcoming, *Journal of Economic Perspectives*

"Inference with Many Weak Instruments" with Anna Mikusheva
*Review of Economic Studies* (2022) 89(5), 2663-2686.

"Estimating Dynamic Treatment Effects in Event Studies with Heterogeneous Treatment Effects" with Sarah Abraham
*Journal of Econometrics* (2021) 225(2), 175-199.

"Weak Instruments in IV Regression: Theory and Practice"
with Isaiah Andrews and James Stock
*Annual Review of Economics* (2019) 11, 727-753.

"Implementing Valid Two-step Identification-robust Confidence Sets for Linear Instrumental-variables Models"
*Stata Journal* (2018) 18(4), 803-825.

## Working Papers

"Empirical Welfare Maximization with Constraints"
*Best Paper Award: Methodology,* NeurIPS Workshop on ML for Economic Policy, 2020

"A Semiparametric and Doubly Robust Test for Complier Characteristics" with Rahul Singh

## Other works

"Structural Reforms and Economic Growth: A Machine Learning Approach" with Anil Ari and Gabor Pula
*IMF Working Paper #2022/184*

## Fellowships, Honors, and Award

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|---|---|
| MIT Department of Economics Jerry A. Hausman Graduate Dissertation Fellowship | 2019-2020 |
| MIT School of Humanities, Arts and Social Sciences Levitan Teaching Award | 2019 |
| Fanny Bullock Workman Fellowship, Wellesley | 2017-2018 |
| MIT Department of Economics Fellowship | 2015-2017 |
| Wellesley in Washington Fellowship | 2013 |

Classical Studies Department McCann Fellowship, Wellesley                               2011

## Invited Presentations

Aarhus Econometrics Workshop I, ACIC 2022, California Econometrics Conference 2022, University of Michigan Two-way Fixed Effects Workshop 2022, SEA 2021, Econometrics Jamboree 2021, ASSA Winter Meeting 2021, Econometric Society European Winter Meeting 2021, NeurIPS Workshop on ML for Economic Policy 2020, NABE Tech Economics Conference 2020, Econometrics Society World Congress 2020, Women in Data Science (WiDS) Cambridge 2020, NeurIPS CausalML Workshop 2019

## Seminar Presentations

2022 Georgetown, UBC, UC Davis, University of Cambridge, UPF, USC, CUHK, CREST-PSE, Sciences Po

2021 Brown, CEMFI, Cornell University, Erasmus University Rotterdam, HKUST, LMU München, Microsoft - Office of the Chief Economist, Penn State, Princeton University, Università Bocconi, Universität Bonn, Universität Mannheim, UC Berkeley - Economics, UC Irvine, UCL, UC Santa Cruz, University of Essex, UW Seattle, UW Madison, VU Amsterdam, Wellesley College

2020 UC Berkeley - Statistics

## Professional Service

Program Committee Member, American Causal Inference Conference                          2022
Program Committee Member, Econometric Society European Meeting                          2022
Grant application reviewer for National Science Foundation

## Referee for

*American Economic Review, American Economic Review: Insights, American Journal of Health Economics, Biometrika, Econometrica, Econometrics and Statistics, Food Policy, Health Services and Outcomes Research Methodology, Journal of Applied Econometrics, Journal of Business & Economic Statistics, Journal of Econometrics, Journal of the Royal Statistical Society: Series C, Journal of Urban Economics, Quarterly Journal of Economics, Review of Economics and Statistics, Review of Economic Studies, Stata Journal*

## Other Activities

MIT IDSS Student Council Secretary                                                2019-2020
MIT Econometrics Lunch Organizer                                                 2018-2020

*Updated:* October 2022