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APPOINTMENTS

2023 – Economic Advisor and Economist, Federal Reserve Bank of Philadelphia
2021 – Nonresident Senior Fellow, The Brookings Institution
2020 – 2022 Senior Economist, Federal Reserve Bank of Philadelphia
2017 – 2019 Economist, Federal Reserve Bank of Philadelphia

EDUCATION

Ph.D., Economics, University of California, Santa Barbara (2017)
Three Essays on the Valuation of the Environment, Regulation, and Transportation Infrastructure
Visiting Graduate Student, Institut Henri Poincaré, Paris, France (2013)
M.A., Economics, University of California, Santa Barbara (2012)
B.A., Economics and Latin American Studies, University of Texas at Austin (2009)
High Honors, Special Honors in Latin American Studies, minors in Math and History

PUBLICATIONS

Refereed Publications

“Clarifying the effect of biodiversity on productivity in natural ecosystems with longitudinal data and methods for causal inference” (with L.E. Dee, P.J. Ferraro, K. Kimmel, E. Borer, and Nutrient Network). *Nature Communications* (Accepted February 2023).

“The Problem Has Existed over Endless Years: Racialized Difference in Commuting, 1980-2019” (with Devin Michelle Bunten, Ellen X. Fu, and Lyndsey Rolheiser). *Journal of Urban Economics* (Accepted January 2023). FRB Philadelphia Working Paper 22-13 (2022). [DOI](#)

“Lockdowns and Innovation: Evidence from the 1918 Flu Pandemic” (with Enrico Berkes, Olivier Deschênes, Ruben Gaetani, and Jeffrey Lin). *Review of Economics and Statistics* (Forthcoming, accepted December 2022). NBER Working Paper 28152.

“Commuting, Labor, and Housing Market Effects of Mass Transportation: Welfare and Identification.” *Review of Economics and Statistics* (Forthcoming in September 2023, accepted August 2021).

“Formative Experiences and the Price of Gasoline” (with Arthur van Benthem). *American Economic Journal: Applied Economics* 14, no. 2 (2022): 256–284. Featured as [Research Highlight](#) in *Nature Energy*. [DOI](#)

“Technology Adoption Under Uncertainty: Take-Up and Subsequent Investment in Zambia” (with Paulina Oliva, Kelsey Jack, Samuel Bell, and Elizabeth Mettetal). *Review of Economics and Statistics* 102, no. 3 (2020): 617–632. [DOI](#)

“What is Marine Justice?” (with J. Martin, S. Gray, E. Aceves-Bueno, P. Alagona, T. Elwell, A. Garcia, Z. Horton, D. Lopez-Carr, J. Marter-Kenyon, K. Miller, T. Shewry, and B. Twohey). *Journal of Environmental Studies and Sciences* 9, no. 2 (2019): 234–243. [DOI](#)

“Land-Use Regulations, Property Values, and Rents: Decomposing the Effects of the California Coastal Act” (with Andrew Plantinga). *Journal of Urban Economics* 107 (2018): 65–78. [DOI](#)

“A Forward-Looking Ricardian Approach: Do Land Markets Capitalize Climate Change Forecasts?” (with Christopher Costello and Olivier Deschênes). *Journal of Environmental Economics and Management* 89 (2018): 235–254. [DOI](#)

“Rural Entrepreneurial Education: An Innovative Piece of Practical Development in Latin America”. *Student Journal of Latin American Studies* 1 (2009): 26–51.

Working Papers (see [website](#) for **Works in Progress**)

“Driving, Dropouts, and Drive-throughs: Mobility Restrictions and Teen Human Capital” (with Valerie Bostwick). FRB Philadelphia Working Paper 22-22 (2022). [DOI](#)

Books, Chapters, Essays, and Research Reports

“Why are young people driving less? Evidence points to economics, not preferences.” *Brookings Research Report*. March 24, 2023. [link](#)

“A Ticket to Ride: Estimating the Costs and Benefits of Rail Transit.” *Economic Insights* 5, no. 2 (2020): 1–9.

PROFESSIONAL SERVICE

Seminar and Conference Organization

Virtual Co-Organizer, 2020 Virtual Meeting of the Urban Economics Association

Founding Co-Organizer, Online Spatial and Urban Seminar (Summer 2020)

Organizer, Online Urban Economics Seminar (Spring 2020)

Refereeing

American Economic Journal: Applied Economics, Econometrica, Economics Letters, Journal of the Association of Environmental and Resource Economists, Journal of Economic Geography, Journal of Environmental Economics and Management, Journal of the European Economic Association, Journal of Housing Economics, Journal of Human Resources, Journal of Labor Economics, Journal of Political Economy Microeconomics, Journal of Public Economics, Journal of Urban Economics, Land Economics, Land Use Policy, Regional Science and Urban Economics, Research Policy, Resource and Energy Economics, Review of Economic Studies, Review of Economics and Statistics, Southern Economic Journal, Urban Studies

Program Committees

Urban Economics Association (2020-2022)
 AERE and AERE@SEA Conferences (2018-2023)
 AREUEA (2019-2021)
 AREUEA/ASSA Meetings (2019)
 Occasional Workshop in Environmental and Resource Economics (2017)

Session Organization at Conferences

AEA/ASSA (2021), AREUEA (2021), SEA (2022), UEA (2019)

Professional Memberships

American Economic Association, American Real Estate and Urban Economics Association, Association of Environmental and Resource Economists, Econometric Society, Urban Economics Association

Panels and Outreach

Guest Panelist – Online Spatial and Urban Seminar, March 2021
 Guest Co-Host – *Densely Speaking* (podcast), January 2021

Other Service

FRB Philadelphia RA Mentor
 CSWEP Liaison

PRESENTATIONS AND DISCUSSIONS

Invited Seminars and Conference Presentations (* - virtual)

- 2023 *Upcoming*: FRB Kansas City
 AEA (New Orleans), Cornell U, U of West Virginia
- 2022 FRS System Regional Conference (Kansas City), LACEA LAUrban (Santiago), NARSC (Montréal), UEA (Washington DC), U of Southern California, U of Toronto*
- 2021 ASSA*, FRS System Regional Conference*, UEA*
- 2020 FRS Applied Micro Conference*, NBER SI EEE Egg Timer*, Tobin Center (Yale)*, TREE (Duke/NCSU)*, UCSB Alumni Conference*
- 2019 AERE Summer Conference (Tahoe), ASSA/Econometric Society (Atlanta), FRB Dallas, FRS Energy Conference (Denver), Michigan State U, Migration and Mobility Workshop (Banca d'Italia), NBER Economics of Infrastructure, SEA (Fort Lauderdale), U of New Hampshire, UEA (Philadelphia), U of Pennsylvania (Wharton EEF)
- 2018 AREUEA National Conference (Washington DC), FRS Applied Micro Conference (Washington DC), Pennsylvania State U (Smeal), SMU Conference on Urban and Regional Economic (Singapore), UEA (NYC), World Congress of Environmental and Resource Economists (Göteborg)
- 2017 European UEA (Copenhagen), FRB Philadelphia, FRS System Regional Conference (NYC), Fordham U, New York U (Furman Center), NARSC (Vancouver), Tilburg U (EOR), UEA (Vancouver), U of Massachusetts Amherst (DRE), U of Ottawa, WEAI (San Diego)

- 2016 NARSC (Minneapolis), WUSTL Economics Graduate Student Conference, WEAI (Portland)
- 2015 AERE Summer Conference (San Diego), NBER SI EEE Egg Timer
- 2014 ASSA (Philadelphia), Southern California Conference for Applied Microeconomics

Conference Discussions

- 2023 ASSA/AEA, ASSA/AREUEA
- 2022 UEA
- 2021 UEA*
- 2019 ASSA/AREUEA (Atlanta), SEA (Fort Lauderdale), UEA (Philadelphia)
- 2018 FRS Committee on Regional Analysis (Boston), UEA (NYC)
- 2017 UEA (Vancouver), Western Economics Association International, NARSC (Vancouver)
- 2016 Western Economics Association International, NARSC (Minneapolis)
- 2015 Occasional Workshop in Environmental and Resource Economics (UCSB)
- 2013 Workshop on Environmental Economics and Development (UCSB)

TEACHING

Instructor

PhD Math Camp (UCSB, 2013-15)

Teaching Assistant

PhD Econometrics 241A/B/C (UCSB 2013-14)
Master's Applied Econometrics (UCSB Bren 2014)
Climate Change Economics (UCSB 2014-15)
Intermediate Microeconomics (UCSB 2016)
Introduction to Econometrics (UCSB 2017)

GRANTS, HONORS, AND AWARDS

Finalist, NARSC Graduate Student Paper Award (2017)
Economics Department & Graduate Division Travel Grants, UCSB (2015-17)
Regents Special Fellowship, UCSB (2011-15)
NSF Graduate Research Fellowship Program, Honorable Mention (2013)
Andron Fellowship, UCSB Economics (2011-12)
Distinction, Macroeconomics and Econometrics PhD Preliminary Exams (2011)
Liberal Arts Competitive/Honors Research Fellowship, UT Austin (2008)
Joe R. and Teresa Lozano Long Undergraduate Scholarship, UT Austin (2007)
National Merit Scholar (2004)