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# Brantly Callaway

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## Academic Appointments

Assistant Professor, Department of Economics, University of Georgia, 2020-

Assistant Professor, Department of Economics, University of Mississippi, 2019-2020

Assistant Professor, Department of Economics, Temple University, 2016-2019

## Education

Ph.D., Economics, Vanderbilt University, 2016

Dissertation: "Essays on Distributional Treatment Effects with Panel Data"

Committee: Tong Li (chair), William Collins, Federico Gutierrez, Atsushi Inoue

M.S., Economics, Georgia Institute of Technology, 2010

B.S., Computer Science, Georgia Institute of Technology, 2007

## Research Interests

Microeconometrics and Labor Economics

## Publications

1. Difference-in-Differences for Policy Evaluation, Forthcoming at *Handbook of Labor, Human Resources and Population Economics*
2. Treatment Effects in Interactive Fixed Effects Models with a Small Number of Time Periods, with Sonia Karami, Forthcoming at *Journal of Econometrics*
3. Heterogeneous Effects of Job Displacement on Earnings, with Afrouz Azadikhah Jahromi, *Empirical Economics*, Vol. 62, No. 1, pp. 213-245, 2022.
4. Difference in Differences with Multiple Time Periods, with Pedro Sant'Anna, *Journal of Econometrics*, Vol. 225, No. 2, pp. 200-230, 2021.
5. Bounds on Distributional Treatment Effect Parameters using Panel Data with an Application on Job Displacement, *Journal of Econometrics*, Vol. 222, No. 2, pp. 861-881, 2021.

6. Distributional Effects of a Continuous Treatment with an Application on Intergenerational Mobility, with Weige Huang, *Oxford Bulletin of Economics and Statistics*, Vol. 82, No. 4, pp. 808-842, 2020.
7. Quantile Treatment Effects in Difference in Differences Models with Panel Data, with Tong Li, *Quantitative Economics*, Vol. 10, No. 4, pp. 1579-1618, 2019.
8. Local Intergenerational Elasticities, with Weige Huang, *Economics Bulletin*, Vol. 39, No. 2, pp. 919-928, 2019.
9. Quantile Treatment Effects in Difference in Differences Models under Dependence Restrictions and with only Two Time Periods, with Tong Li and Tatsushi Oka, *Journal of Econometrics*, Vol. 206, No. 2, pp. 395-418, 2018.
10. Unions, Workers, and Wages at the Peak of the American Labor Movement, with William Collins, *Explorations in Economic History*, Vol. 68, pp. 95-118, 2018.

## Working Papers

1. Difference in Differences with Time-Varying Covariates, with Carolina Caetano, Stroud Payne, and Hugo Rodrigues
2. Nonlinear Approaches to Intergenerational Income Mobility allowing for Measurement Error, with Tong Li and Irina Murtazashvili, Status: Submitted
3. Difference-in-Differences with a Continuous Treatment, with Andrew Goodman-Bacon and Pedro H.C. Sant'Anna
4. Policy Evaluation during a Pandemic, with Tong Li, Status: Revise and Resubmit
5. Evaluating Policies Early in a Pandemic: Bounding Policy Effects with Nonrandomly Missing Data, with Tong Li, Status: Revise and Resubmit

## Resting Papers

Adoption and Diffusion of Health Information Technology: The Case of Primary Care Clinics, with Vivek Ghosal (2012)

## Teaching

University of Georgia

Introduction to Econometrics (Undergraduate): 2020-2022

Introduction to Econometrics (Ph.D.): 2021-2022

Statistics for Econometrics (Ph.D.): 2022

University of Mississippi

Econometrics II (Ph.D.): 2020

Probability and Statistics (Ph.D.): 2019

## Temple University

Econometrics II (Ph.D.): 2017, 2018, 2019

Introduction to Econometrics (Undergraduate): 2017, 2018, 2019

## Vanderbilt University

Economic Statistics (Undergraduate): 2013

## Vanderbilt University, Teaching Assistant

Probability and Statistics (Ph.D.): 2014

Econometrics I (Ph.D.): 2013, 2014

Econometrics II (Ph.D.): 2012, 2014

Microeconometrics (Ph.D.): 2014, 2015

Macroeconomics (Ph.D.): 2012

Time Series Econometrics (M.A.): 2015

Poverty and Discrimination (Undergraduate): 2013

Intermediate Macroeconomic Theory (Undergraduate): 2012

Economic Statistics (Undergraduate): 2011

## Short Courses on Difference in Differences

University of Louisiana at Lafayette: 2020

Fondazione Eni Enrico Mattei (FEEM): 2021

## Software

1. R `qte` package: Code for estimating quantile treatment effects particularly when panel data is available
  - Available at [bcallaway11.github.io/qte](https://bcallaway11.github.io/qte)
2. R `did` package: Code for difference-in-differences with multiple time periods and variation in treatment timing
  - Available at [bcallaway11.github.io/did](https://bcallaway11.github.io/did)
3. R `ife` package: Code for treatment effects in interactive fixed effects models with a small number of time periods
  - Available at [github.com/bcallaway11/ife](https://github.com/bcallaway11/ife)
4. R `pte` package: Generic functions for treatment effects with panel data
  - Available at [github.com/bcallaway11/pte](https://github.com/bcallaway11/pte)
5. R `ppe` package: Code for policy evaluation during a pandemic
  - Available at [github.com/bcallaway11/ppe](https://github.com/bcallaway11/ppe)
6. R `BMisc` package: Miscellaneous functions for working with panel data, distribution functions, and dealing with formulas
  - Available at [bcallaway11.github.io/BMisc](https://bcallaway11.github.io/BMisc)

7. R `csabounds` package: Implements tight bounds on the distribution and quantile of the treatment effect when panel data is available
  - Available at [bcallaway11.github.io/csabounds](https://bcallaway11.github.io/csabounds)
8. R `ccfa` package: Tools for constructing counterfactual distributions with a continuous treatment
  - Available at [weigehuangcon.github.io/ccfa](https://weigehuangcon.github.io/ccfa)
9. R `distreg` package: Functions related to distribution regression
  - Available at [github.com/bcallaway11/distreg](https://github.com/bcallaway11/distreg)
10. R `lige` package: Code to compute local versions of intergenerational elasticities
  - Available at [github.com/bcallaway11/lige](https://github.com/bcallaway11/lige)
11. R `qrme` package: Code for quantile regression with measurement error and nonlinear models with two-sided measurement error
  - Available at [github.com/bcallaway11/qrme](https://github.com/bcallaway11/qrme)
12. R `kotlarski` code: Code for estimating the distribution of a latent variable when repeated measurements are available using Kotlarski's Lemma
  - Available at [github.com/bcallaway11/kotlarski](https://github.com/bcallaway11/kotlarski)

## Honors and Fellowships

1. Aigner Award (best applied paper at the *Journal of Econometrics*) for “Difference in differences with multiple time periods”, 2022
2. Vanderbilt University Economics Fellowship, 2010-2016
3. Noel Dissertation Fellowship, 2015

## Other Research Experience and Employment

1. Vanderbilt University
  - Research Assistant for Tong Li, 2013-2016
  - Research Assistant for William Collins, 2013
  - Research Assistant for Yanqin Fan, 2012
2. Georgia Institute of Technology
  - Research Assistant for Vivek Ghosal, 2009-2010
3. Home Depot, Atlanta, GA
  - Information Technology Developer, 2007-2008

## Advising

### Dissertation Committee Chair

1. Emmanuel Tsyawo: Ph.D., Temple University, 2020. First Placement: Assistant Professor, Mohammed VI Polytechnic University
2. Qin Wei: Ph.D., Temple University, 2020, First Placement: Depository Trust & Clearing Corporation
3. Afrouz Azadikhah-Jahromi: Ph.D., Temple University, 2019. First Placement: Assistant Professor, Widener University.
4. Weige Huang: Ph.D., Temple University, 2019. First Placement: Assistant Professor, Wenlan School of Business, Zhongnan University of Economics and Law.

### Dissertation Committee Member

1. Pablo Troncoso: Ph.D., University of Georgia, in progress
2. Chengye Jia: Ph.D., Temple University, 2021, First Placement: Shandong University of Finance and Economics
3. Sonia Karami: Ph.D. Temple University, 2021, First Placement: Data Scientist, Federal Reserve Bank of Richmond

### M.A. Thesis Advisor

1. Stroud Payne: M.A., University of Georgia, in progress

## Professional Activities

### Invited Seminars:

2023 (includes scheduled): Central European University, University of Connecticut, Washington University in St. Louis

2022: Auburn University, Bureau of Economic Analysis, Columbia University, Emory Quantitative Theory and Methods, Florida State University, McMaster University, Northwestern University, University of Duisburg-Essen, University of Illinois Urbana-Champaign, University of Virginia, University of Wisconsin Agricultural and Applied Economics, University of Zurich, Zhongnan University of Economics and Law, Workshop on current issues in difference-in-differences and two-way fixed effect research designs at the University of Michigan

2021: Amazon, Brown University, Icesi University, Michigan State University, Monash University, University of São Paulo, Difference in Differences Reading Group, One World YoungStats Webinar

2020: Texas A&M, UC Merced, University of Georgia, Vanderbilt University

2019: Southern Methodist University

2018: University of Central Florida, University of Mississippi, University of Pennsylvania

2016: Baylor University, Bureau of Economic Analysis, Concordia University, Consumer Financial Protection Bureau, Indiana University, Lancaster University, Mathematica Policy Research, Temple University, UC Davis, UC Merced

Conference Presentations:

2022: Econometric Society Summer Meetings, International Association of Applied Econometrics, Midwest Econometrics Group Conference, Society of Labor Economists, Southern Economics Association Conference, 17th IZA & 4th IZA/CREST Conference: Labor Market Policy Evaluation,

2021: Annual Health Econometrics Workshop, 26th International Panel Data Conference, Southern Economics Association Conference

2020: Labor Breakfast Roundtable at ASSA, Southeastern Micro Labor Workshop, Southern Economics Association Conference

2019: Economic Applications of Quantile Regression 2.0 Conference, Econometric Society Summer Meetings, Southern Economics Association Conference

2018: Conference on Identification in Econometrics at Vanderbilt University, Southern Economics Association Conference, Triangle Econometrics Conference

2017: Midwest Econometrics Group Conference, Southern Economics Association Conference

2016: Midwest Econometrics Group Conference, 9th International Conference of the ERCIM WG on Computational and Methodological Statistics

2015: Econometric Society World Congress, Midwest Econometrics Group Conference

Referee: American Political Science Review, Annals of Applied Statistics (2), American Economic Review, Biometrics, Canadian Journal of Economics, Econometric Reviews (3), Econometrics and Statistics, Economics Letters (2), Empirical Economics (4), European Review of Agricultural Economics, Evaluation Review, Health Economics, Health Services and Outcomes Research Methodology, Industrial Relations, Journal of Applied Econometrics (8), Journal of the Association of Environmental and Resource Economists, Journal of Business and Economic Statistics (9), Journal of Econometric Methods (3), Journal of Econometrics (8), Journal of Economic Behavior and Organization, Labour Economics, Nature Human Behavior, Oxford Bulletin of Economics and Statistics, Research in Labor Economics, Quarterly Journal of Economics, Review of Economics and Statistics (2), Southern Economic Journal, Statistics and Probability Letters

Service:

1. UGA Economics Hiring Committee Chair, 2022
2. UGA Economics Department Graduate Program Committee, 2022-
3. Co-organizer Georgia Econometrics Workshop, 2022
4. Research proposal reviewer for the Israel Science Foundation, 2022
5. Co-founder UGA Econometrics Reading Group, 2021-
6. University of Georgia Economics Hiring Committee, 2020
7. Founded Temple Econometrics Reading Group, 2016-2019
8. Temple Economics Department Undergraduate Affairs Committee, 2016-2019
9. Temple Economics Department Seminar Committee, 2016-2019
10. Temple Economics Department Hiring Committee, 2018

11. Faculty Supervisor for Center for Regional Economics at Temple  
Consulting project for Comcast, 4 students, \$30,000 budget, 2017
12. Temple College of Liberal Arts Technology Committee, 2016-2017