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# Brantly Callaway

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## ACADEMIC APPOINTMENTS

University of Georgia, John Munro Godfrey, Sr. Department of Economics, 2020-

Associate Professor, 2023-

Assistant Professor, 2020-2023

*Previous Positions:*

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

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

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

## EDITORIAL POSITIONS

Associate Editor, *Econometric Reviews*, 2024-

## RESEARCH INTERESTS

Panel Data Econometrics, Microeconometrics, and Labor Economics

## PUBLICATIONS

1. Event-Studies with a Continuous Treatment, with Andrew Goodman-Bacon and Pedro H.C. Sant'Anna, *AEA Papers & Proceedings*, Vol. 114, pp. 601–605, 2024.
2. Policy Evaluation during a Pandemic, with Tong Li, *Journal of Econometrics*, Vol. 236, No. 1, 2023.

3. Evaluating Policies Early in a Pandemic: Bounding Policy Effects with Nonrandomly Missing Data, with Tong Li, Forthcoming at *Review of Economics and Statistics*.
4. Difference-in-Differences for Policy Evaluation, In: Zimmermann, K.F. (eds) *Handbook of Labor, Human Resources and Population Economics*, pp. 1–61, 2023.
5. Treatment Effects in Interactive Fixed Effects Models with a Small Number of Time Periods, with Sonia Karami, *Journal of Econometrics*, Vol. 233, No. 1, pp. 184–208, 2023.
6. Heterogeneous Effects of Job Displacement on Earnings, with Afrouz Azadikhah Jahromi, *Empirical Economics*, Vol. 62, No. 1, pp. 213–245, 2022.
7. Difference in Differences with Multiple Time Periods, with Pedro Sant’Anna, *Journal of Econometrics*, Vol. 225, No. 2, pp. 200–230, 2021.
8. 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.
9. 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.
10. Quantile Treatment Effects in Difference in Differences Models with Panel Data, with Tong Li, *Quantitative Economics*, Vol. 10, No. 4, pp. 1579–1618, 2019.
11. Local Intergenerational Elasticities, with Weige Huang, *Economics Bulletin*, Vol. 39, No. 2, pp. 919–928, 2019.
12. 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.
13. 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 Designs: A Practitioner’s Guide, with Andrew Baker, Scott Cunningham, Andrew Goodman-Bacon, and Pedro H.C. Sant’Anna, revise and resubmit
2. Treatment Effects in Staggered Adoption Designs with Non-Parallel Trends, with Emmanuel Tsyawo
3. Regulation, Emissions and Productivity: Evidence from China’s Eleventh Five-Year Plan, with Tong Li, Joel Rodrigue, Yuya Sasaki, and Yong Tan, submitted
4. Difference-in-Differences when Parallel Trends Holds Conditional on Covariates, with Carolina Caetano
5. Distributional Effects with Two-Sided Measurement Error: An Application to Intergenerational Income Mobility, with Tong Li and Irina Murtazashvili, submitted
6. Difference-in-Differences with a Continuous Treatment, with Andrew Goodman-Bacon and Pedro H.C. Sant’Anna, revise and resubmit

## WORKS IN PROGRESS

1. Testing the Effects of an Unobservable Factor: Do Marriage Prospects Affect College-Major Choice?, with Hayri Alper Arslan and Tong Li
2. Inference on Counterfactual Transition Matrices, with Chengye Jia and Karen Yan
3. Difference-in-Differences with Bad Controls, with Carolina Caetano, Stroud Payne, and Hugo Sant'Anna

## RESTING PAPERS

1. Adoption and Diffusion of Health Information Technology: The Case of Primary Care Clinics, with Vivek Ghosal (2012)
2. Difference in Differences with Time-Varying Covariates, with Carolina Caetano, Stroud Payne, and Hugo Rodrigues (2022), this paper replaced by “Difference-in-Differences with Covariates in the Parallel Trends Assumption” and by “Difference-in-Differences with Bad Controls”.

## TEACHING

### University of Georgia

Introduction to Econometrics (Undergraduate): 2020-2024

Introduction to Econometrics (Ph.D.): 2021-2024

Statistics for Econometrics (Ph.D.): 2022

### Previous Courses

Econometrics II (Ph.D.), University of Mississippi: 2020

Probability and Statistics (Ph.D.), University of Mississippi: 2019

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

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

Economic Statistics (Undergraduate), Vanderbilt University: 2013

### Short Courses on Difference-in-Differences

Agricultural & Applied Economics Association Annual Meeting: 2024

Bank of Portugal: 2024 (scheduled)

Centers for Disease Control and Prevention: 2024

Louisiana State University: 2024

University of Georgia: 2024

Mixtape Sessions, Frontiers in Difference-in-Differences: 2023

Northwestern Causal Inference Workshop: 2023

Fondazione Eni Enrico Mattei (FEEM): 2021

University of Louisiana at Lafayette: 2020

## 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 `revealEquations` package: Code for revealing math line-by-line in Quarto or Xaringan presentations.
  - Available at [github.com/bcallaway11/revealEquations](https://github.com/bcallaway11/revealEquations)
13. R `twfeweights` package: Code for computing (implicit) regression weights in TWFE regressions with multiple periods and specifications that include covariates.
  - Available at [github.com/bcallaway11/twfeweights](https://github.com/bcallaway11/twfeweights)
14. 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. Kamerschen-Hampton award for outstanding achievement in economics research at the University of Georgia, 2024
2. Aigner Award (best applied paper at the *Journal of Econometrics*) for “Difference in differences with multiple time periods”, 2023
3. Vanderbilt University Economics Fellowship, 2010-2016
4. Noel Dissertation Fellowship, 2015

## ADVISING

### Dissertation Committee Chair

1. Chengye Jia: Ph.D., Temple University, 2021, First Placement: Shandong University of Finance and Economics
2. Sonia Karami: Ph.D. Temple University, 2021, First Placement: Data Scientist, Federal Reserve Bank of Richmond
3. Emmanuel Tsyawo: Ph.D., Temple University, 2020. First Placement: Assistant Professor, Mohammed VI Polytechnic University
4. Qin Wei: Ph.D., Temple University, 2020, First Placement: Depository Trust & Clearing Corporation
5. Afrouz Azadikhah-Jahromi: Ph.D., Temple University, 2019. First Placement: Assistant Professor, Widener University.
6. Weige Huang: Ph.D., Temple University, 2019. First Placement: Assistant Professor, Wenzhan School of Business, Zhongnan University of Economics and Law, Current Position: Associate Professor, Shenzhen MSU-BIT University

### Dissertation Committee Member

1. Hugo Sant’Anna: Ph.D., University of Georgia, in progress
2. Pablo Troncoso: Ph.D., University of Georgia, 2023. First Placement: Instructional Assistant Professor, University of Houston.
3. Chenchen Xie: Ph.D., Temple University, 2021.

### M.A. Thesis Advisor

1. Stroud Payne: M.A., University of Georgia, 2022, Placement: Vanderbilt University Ph.D. program

### M.A. Thesis Committee Member

1. Emmett Allen: M.A., University of Georgia, 2023.

## PROFESSIONAL ACTIVITIES

### Invited Seminars:

1. Duke University, 2024 (scheduled)
2. University of Arkansas, 2024 (scheduled)
3. University of Notre Dame, 2024 (scheduled)
4. Brandeis University, 2024
5. Georgetown University, 2024
6. Toronto Metropolitan University, 2024
7. Tanzania's Economic and Social Research Foundation, 2024
8. Central European University, 2023
9. George Washington University, 2023
10. Miami University, 2023
11. NEXT-D Workshop at Tulane University, 2023
12. Northeastern University, 2023
13. Queen's University, 2023
14. University of Connecticut, 2023
15. Urban Institute, 2023
16. Virginia Tech, 2023
17. Washington University in St. Louis, 2023
18. Auburn University, 2022,
19. Bureau of Economic Analysis, 2022
20. Columbia University, 2022
21. Emory Quantitative Theory and Methods, 2022
22. Florida State University, 2022
23. McMaster University, 2022
24. Northwestern University, 2022
25. University of Duisburg-Essen, 2022
26. University of Illinois Urbana-Champaign, 2022
27. University of Virginia, 2022
28. University of Wisconsin Agricultural and Applied Economics, 2022
29. University of Zurich, 2022
30. Zhongnan University of Economics and Law, 2022
31. Workshop on current issues in difference-in-differences and two-way fixed effect research designs at the University of Michigan, 2022
32. Amazon, 2021
33. Brown University, 2021
34. Icesi University, 2021
35. Michigan State University, 2021
36. Monash University, 2021
37. University of São Paulo, 2021
38. Difference in Differences Reading Group, 2021

39. One World YoungStats Webinar, 2021
40. Texas A&M, 2020
41. UC Merced, 2020
42. University of Georgia, 2020
43. Vanderbilt University, 2020
44. Southern Methodist University, 2019
45. University of Central Florida, 2018
46. University of Mississippi, 2018
47. University of Pennsylvania, 2018
48. Baylor University, 2016
49. Bureau of Economic Analysis, 2016
50. Concordia University, 2016
51. Consumer Financial Protection Bureau, 2016
52. Indiana University, 2016
53. Lancaster University, 2016
54. Mathematica Policy Research, 2016
55. Temple University, 2016
56. UC Davis, 2016
57. UC Merced, 2016

Conference Presentations:

1. Econometric Society Summer Meetings, 2024
2. Canadian Econometrics Study Group, 2023
3. Georgia Econometrics Workshop, 2023
4. Kansas University Econometrics Workshop, 2023
5. Midwest Econometrics Group, 2023
6. Southern Economics Association Conference, 2023
7. Econometric Society Summer Meetings, 2022
8. International Association of Applied Econometrics, 2022
9. Midwest Econometrics Group Conference, 2022
10. Society of Labor Economists, 2022
11. Southern Economics Association Conference, 2022
12. 17th IZA & 4th IZA/CREST Conference: Labor Market Policy Evaluation, 2022
13. Annual Health Econometrics Workshop, 2021
14. 26th International Panel Data Conference, 2021
15. Southern Economics Association Conference, 2021
16. Labor Breakfast Roundtable at ASSA, 2020
17. Southeastern Micro Labor Workshop, 2020
18. Southern Economics Association Conference, 2020
19. Economic Applications of Quantile Regression 2.0 Conference, 2019
20. Econometric Society Summer Meetings, 2019
21. Southern Economics Association Conference, 2019

22. Conference on Identification in Econometrics at Vanderbilt University, 2018
23. Southern Economics Association Conference, 2018
24. Triangle Econometrics Conference, 2018
25. Midwest Econometrics Group Conference, 2017
26. Southern Economics Association Conference, 2017
27. Midwest Econometrics Group Conference, 2016
28. 9th International Conference of the ERCIM WG on Computational and Methodological Statistics, 2016
29. Econometric Society World Congress, 2015
30. Midwest Econometrics Group Conference, 2015

Referee:

1. American Economic Journal: Applied Economics (2)
2. American Economic Review
3. American Journal of Epidemiology
4. American Political Science Review
5. Annals of Applied Statistics (2)
6. Annals of Statistics
7. Applied Economics Letters (2)
8. Biometrics
9. Canadian Journal of Economics
10. Econometrica
11. Econometrics Journal
12. Econometric Reviews (3)
13. Econometrics and Statistics
14. Economics Letters (2)
15. Empirical Economics (4)
16. European Economic Review
17. European Review of Agricultural Economics
18. Evaluation Review
19. Health Economics
20. Health Services and Outcomes Research Methodology
21. Industrial Relations
22. Journal of the American Statistical Association
23. Journal of Applied Econometrics (10)
24. Journal of the Association of Environmental and Resource Economists
25. Journal of Business and Economic Statistics (14)
26. Journal of Causal Inference
27. Journal of Econometric Methods (3)
28. Journal of Econometrics (11)
29. Journal of Economic Behavior and Organization
30. Journal of Policy Analysis and Management



31. Labour Economics
32. Nature Human Behavior
33. Oxford Bulletin of Economics and Statistics
34. Proceedings of the National Academy of Sciences
35. Research in Labor Economics
36. Quarterly Journal of Economics (2)
37. Quantitative Economics
38. Review of Economics and Statistics (5)
39. Review of Economic Studies
40. Socio-Economic Review
41. Southern Economic Journal
42. Statistics and Probability Letters

#### University Service:

1. UGA Seminar Co-organizer, 2024-
2. UGA Ad Hoc Godfrey Committee, 2023-
3. Terry College Promotion and Tenure for Lecturers Committee, 2023 & 2024
4. UGA Economics Department Graduate Program Committee, 2022-
5. Co-founder UGA Econometrics Reading Group, 2021-
6. UGA Economics Hiring Committee Chair, 2022-2023
7. UGA Economics Hiring Committee, 2020-2021
8. Founder Temple Econometrics Reading Group, 2016-2019
9. Temple Economics Department Undergraduate Affairs Committee, 2016-2019
10. Temple Economics Department Seminar Committee, 2016-2019
11. Temple Economics Department Hiring Committee, 2018
12. Temple Faculty Supervisor for Center for Regional Economics, 2017
13. Temple College of Liberal Arts Technology Committee, 2016-2017

#### External Service:

1. International Association of Applied Econometrics Scientific Committee (submission reviewer), 2024
2. National Science Foundation Grant Proposal Reviewer, 2023
3. Association for Public Policy Analysis and Management (APPAM) submission reviewer for the Methods and Tools of Analysis program, 2023
4. Co-organizer Georgia Econometrics Workshop, 2022 & 2023
5. Research proposal reviewer for the Israel Science Foundation, 2022

## **OTHER EMPLOYMENT**

1. Home Depot, Atlanta, GA  
Computer Programmer, 2007-2008