

# Brantly Callaway

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## ACADEMIC APPOINTMENTS

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

P. George Benson Associate Professor, 2025–

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

## HONORS AND FELLOWSHIPS

1. Kamerschen-Hampton award for outstanding achievement in economics research at the University of Georgia, 2024
2. Aigner Award for best applied paper at the *Journal of Econometrics* for “Difference in differences with multiple time periods”, 2023
3. Fellow of the International Association for Applied Econometrics, 2023–

## EDITORIAL POSITIONS

Associate Editor, *Journal of Econometrics*, 2026–

Associate Editor, *Econometric Reviews*, 2024–

## RESEARCH INTERESTS

Econometrics, Microeconomics, Panel Data Econometrics, and Causal Inference

## PUBLICATIONS

1. Difference-in-Differences Designs: A Practitioner's Guide, with Andrew Baker, Scott Cunningham, Andrew Goodman-Bacon, and Pedro H.C. Sant'Anna, forthcoming at *Journal of Economic Literature*
2. Evaluating Policies Early in a Pandemic: Bounding Policy Effects with Nonrandomly Missing Data, with Tong Li, *Review of Economics and Statistics*, Vol. 107, No. 3, pp. 803–819, 2025.
3. 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.
4. Policy Evaluation during a Pandemic, with Tong Li, *Journal of Econometrics*, Vol. 236, No. 1, 2023.
5. Difference-in-Differences for Policy Evaluation, In: Zimmermann, K.F. (eds) *Handbook of Labor, Human Resources and Population Economics*, pp. 1–61, 2023.
6. 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.
7. Heterogeneous Effects of Job Displacement on Earnings, with Afrouz Azadikhah Jahromi, *Empirical Economics*, Vol. 62, No. 1, pp. 213–245, 2022.
8. Difference in Differences with Multiple Time Periods, with Pedro Sant'Anna, *Journal of Econometrics*, Vol. 225, No. 2, pp. 200–230, 2021.
9. 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.
10. 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.
11. Quantile Treatment Effects in Difference in Differences Models with Panel Data, with Tong Li, *Quantitative Economics*, Vol. 10, No. 4, pp. 1579–1618, 2019.
12. Local Intergenerational Elasticities, with Weige Huang, *Economics Bulletin*, Vol. 39, No. 2, pp. 919–928, 2019.
13. 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.
14. 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. Beyond Parallel Trends: An Identification-Strategy-Robust Approach to Causal Inference with Panel Data, with Derek Dyal, Pedro H.C. Sant'Anna, and Emmanuel Tsyawo
2. Causal Inference for Aggregated Treatment, with Carolina Caetano, Gregorio Caetano, and Derek Dyal
3. Testing the Effects of an Unobservable Factor: Do Marriage Prospects Affect College-Major Choice?, with Hayri Alper Arslan and Tong Li
4. Treatment Effects in Staggered Adoption Designs with Non-Parallel Trends, with Emmanuel Tsyawo
5. Regulation, Emissions and Productivity: Evidence from China's Eleventh Five-Year Plan, with Tong Li, Joel Rodrigue, Yuya Sasaki, and Yong Tan
6. Difference-in-Differences when Parallel Trends Holds Conditional on Covariates, with Carolina Caetano, revise and resubmit at *Review of Economics and Statistics*
7. Distributional Effects with Two-Sided Measurement Error: An Application to Intergenerational Income Mobility, with Tong Li and Irina Murtazashvili, revise and resubmit at *Journal of Econometrics*
8. Difference-in-Differences with a Continuous Treatment, with Andrew Goodman-Bacon and Pedro H.C. Sant'Anna, revise and resubmit at *American Economic Review*

## WORKS IN PROGRESS

1. Inference on Counterfactual Transition Matrices, with Chengye Jia and Karen Yan
2. Difference-in-Differences with Bad Controls, with Carolina Caetano, Stroud Payne, and Hugo Sant'Anna

## RESTING PAPERS

1. 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".
2. Adoption and Diffusion of Health Information Technology: The Case of Primary Care Clinics, with Vivek Ghosal (2012)

## SOFTWARE

### Main Packages:

These are the main packages that I have developed and actively maintain.

1. R `did` package: Code for difference-in-differences with multiple time periods and variation in treatment timing
  - Available at [bcallaway11.github.io/did](https://github.com/bcallaway11/did)
2. 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)
3. R `ptetools` package: Generic functions for treatment effects with panel data
  - Available at [bcallaway11.github.io/ptetools](https://github.com/bcallaway11/github.io/ptetools)
4. R `qte` package: Code for estimating quantile treatment effects particularly when panel data is available
  - Available at [bcallaway11.github.io/qte](https://github.com/bcallaway11/github.io/qte)
5. R `contdid` package: Code for difference-in-differences with a continuous treatment
  - Available at [bcallaway11.github.io/contdid](https://github.com/bcallaway11/github.io/contdid)
6. 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)
7. R `BMisc` package: Miscellaneous functions for working with panel data, distribution functions, and dealing with formulas
  - Available at [bcallaway11.github.io/BMisc](https://github.com/bcallaway11/github.io/BMisc)

### Utility Packages:

Smaller packages that serve a specific purpose.

1. 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)
2. 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)
3. R `ugametrics` package: Teaching code for my class at UGA, mainly code for regression adjustment estimation of treatment effects
  - Available at [github.com/bcallaway11/ugametrics](https://github.com/bcallaway11/ugametrics)

### Additional Packages:

These are packages developed for specific projects. They are functional, but not as general purpose as the packages above, and I am not actively maintaining them.

1. R `ppe` package: Code for policy evaluation during a pandemic
  - Available at [github.com/bcallaway11/ppe](https://github.com/bcallaway11/ppe).
  - The functionality of this package has been merged into the R `ptetools` package, but the examples from the original package are still here.
2. 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://github.com/bcallaway11/github.io/csabounds)

3. R `ccfa` package: Tools for constructing counterfactual distributions with a continuous treatment
  - Available at [weigehuangecon.github.io/ccfa](https://weigehuangecon.github.io/ccfa)
4. R `distreg` package: Functions related to distribution regression
  - Available at [github.com/bcallaway11/distreg](https://github.com/bcallaway11/distreg)
5. 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)

## TEACHING

### Grants and Awards

Provost's affordable course materials grant, 2024

### University of Georgia

Introduction to Econometrics (Undergraduate): 2020–2025

Introduction to Econometrics (Ph.D.): 2021–2026

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: 2017–2019

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

Economic Statistics (Undergraduate), Vanderbilt University: 2013

### Short Courses on Difference-in-Differences

University of Iowa: 2026

University of Virginia Quantitative Collaborative: 2026

Camp Resources XXXI: 2025

Clemson University: 2025

Agricultural & Applied Economics Association Annual Meeting: 2024

Bank of Portugal: 2024

Centers for Disease Control and Prevention: 2024

Louisiana State University: 2024

University of Notre Dame: 2024

University of Georgia: 2024 (2x)

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

## ADVISING

### Dissertation Committee Chair

1. Derek Dyal: 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
4. Emmanuel Tsyawo: Ph.D., Temple University, 2020. First Placement: Assistant Professor, Mohammed VI Polytechnic University, Current Position: Assistant Professor, University of Alabama
5. Qin Wei: Ph.D., Temple University, 2020, First Placement: Depository Trust & Clearing Corporation
6. Afrouz Azadikhah-Jahromi: Ph.D., Temple University, 2019. First Placement: Assistant Professor, Widener University.
7. Weige Huang: Ph.D., Temple University, 2019. First Placement: Assistant Professor, Wenlan School of Business, Zhongnan University of Economics and Law, Current Position: Associate Professor, Shenzhen MSU-BIT University

### Dissertation Committee Member

1. Dixit Poudel: Ph.D., University of Georgia (Agricultural and Applied Economics), in progress
2. Hugo Sant'Anna: Ph.D., University of Georgia, 2025. First Placement: Assistant Professor, University of Alabama at Birmingham.
3. Pablo Troncoso: Ph.D., University of Georgia, 2023. First Placement: Instructional Assistant Professor, University of Houston.
4. 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. Iowa State University, 2026 (scheduled)
2. University of Alabama, 2026 (scheduled)
3. University of Iowa, 2026 (scheduled)
4. University of Virginia, 2026 (scheduled)
5. Emory University, 2025

6. Rice University, 2025
7. Duke University, 2024
8. Goethe University Frankfurt, 2024
9. University of Arkansas, 2024
10. University of Notre Dame, 2024
11. Brandeis University, 2024
12. Georgetown University, 2024
13. Toronto Metropolitan University, 2024
14. Tanzania's Economic and Social Research Foundation, 2024
15. Central European University, 2023
16. George Washington University, 2023
17. Miami University, 2023
18. NEXT-D Workshop at Tulane University, 2023
19. Northeastern University, 2023
20. Queen's University, 2023
21. University of Connecticut, 2023
22. Urban Institute, 2023
23. Virginia Tech, 2023
24. Washington University in St. Louis, 2023
25. Auburn University, 2022,
26. Bureau of Economic Analysis, 2022
27. Columbia University, 2022
28. Emory Quantitative Theory and Methods, 2022
29. Florida State University, 2022
30. McMaster University, 2022
31. Northwestern University, 2022
32. University of Duisburg-Essen, 2022
33. University of Illinois Urbana-Champaign, 2022
34. University of Virginia, 2022
35. University of Wisconsin Agricultural and Applied Economics, 2022
36. University of Zurich, 2022
37. Zhongnan University of Economics and Law, 2022
38. Workshop on current issues in difference-in-differences and two-way fixed effect research designs at the University of Michigan, 2022
39. Amazon, 2021
40. Brown University, 2021
41. Icesi University, 2021
42. Michigan State University, 2021
43. Monash University, 2021
44. University of São Paulo, 2021
45. Difference-in-Differences Reading Group, 2021
46. One World YoungStats Webinar, 2021

47. Texas A&M, 2020
48. UC Merced, 2020
49. University of Georgia, 2020
50. Vanderbilt University, 2020
51. Southern Methodist University, 2019
52. University of Central Florida, 2018
53. University of Mississippi, 2018
54. University of Pennsylvania, 2018
55. Baylor University, 2016
56. Bureau of Economic Analysis, 2016
57. Concordia University, 2016
58. Consumer Financial Protection Bureau, 2016
59. Indiana University, 2016
60. Lancaster University, 2016
61. Mathematica Policy Research, 2016
62. Temple University, 2016
63. UC Davis, 2016
64. UC Merced, 2016

Conference Presentations:

1. Econometrics at Emory: Causal Inference with Panel Data, 2025
2. Econometric Society Summer Meetings, 2024
3. Canadian Econometrics Study Group, 2023
4. Georgia Econometrics Workshop, 2023
5. Kansas University Econometrics Workshop, 2023
6. Midwest Econometrics Group, 2023
7. Southern Economics Association Conference, 2023
8. Econometric Society Summer Meetings, 2022
9. International Association for Applied Econometrics, 2022
10. Midwest Econometrics Group Conference, 2022
11. Society of Labor Economists, 2022
12. Southern Economics Association Conference, 2022
13. 17th IZA & 4th IZA/CREST Conference: Labor Market Policy Evaluation, 2022
14. Annual Health Econometrics Workshop, 2021
15. 26th International Panel Data Conference, 2021
16. Southern Economics Association Conference, 2021
17. Labor Breakfast Roundtable at ASSA, 2020
18. Southeastern Micro Labor Workshop, 2020
19. Southern Economics Association Conference, 2020
20. Economic Applications of Quantile Regression 2.0 Conference, 2019
21. Econometric Society Summer Meetings, 2019
22. Southern Economics Association Conference, 2019

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

Referee:

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

31. Journal of Econometric Methods (5)
32. Journal of Econometrics (19)
33. Journal of Economic Behavior and Organization
34. Journal of Policy Analysis and Management
35. Journal of Political Economy
36. Journal of Political Economy Microeconomics
37. Journal of the Royal Statistical Society Series B
38. Labour Economics
39. Nature Human Behavior
40. Oxford Bulletin of Economics and Statistics (2)
41. Proceedings of the National Academy of Sciences
42. Quarterly Journal of Economics (2)
43. Quantitative Economics
44. Research in Labor Economics
45. Review of Economics and Statistics (7)
46. Review of Economic Studies (3)
47. Socio-Economic Review
48. Southern Economic Journal
49. Statistics and Probability Letters
50. Studies in Nonlinear Dynamics & Econometrics

University Service:

1. UGA Seminar Co-organizer, 2024–
2. UGA Ad Hoc Godfrey Committee, 2023–
3. Terry College Promotion and Tenure for Lecturers Committee, 2023–2025
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. Society of Labor Economists World Congress of Labor Economics Program Committee (submission reviewer), 2025
2. International Association for Applied Econometrics Scientific Committee (submission reviewer), 2024 & 2025
3. National Science Foundation Grant Proposal Reviewer, 2023

4. Association for Public Policy Analysis and Management (APPAM) submission reviewer for the Methods and Tools of Analysis program, 2023
5. Co-organizer Georgia Econometrics Workshop, 2022 & 2023
6. Research proposal reviewer for the Israel Science Foundation, 2022

## **OTHER EMPLOYMENT**

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