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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

Econometrics, Microeconometrics, 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. Causal Inference for Aggregated Treatment, with Carolina Caetano, Gregorio Caetano, and Derek Dyal
2. Testing the Effects of an Unobservable Factor: Do Marriage Prospects Affect College-Major Choice?, with Hayri Alper Arslan and Tong Li
3. Treatment Effects in Staggered Adoption Designs with Non-Parallel Trends, with Emmanuel Tsyawo
4. Regulation, Emissions and Productivity: Evidence from China's Eleventh Five-Year Plan, with Tong Li, Joel Rodrigue, Yuya Sasaki, and Yong Tan

5. Difference-in-Differences when Parallel Trends Holds Conditional on Covariates, with Carolina Caetano, revise and resubmit at *Review of Economics and Statistics*
6. 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*
7. 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)

TEACHING

University of Georgia

Introduction to Econometrics (Undergraduate): 2020–2024

Introduction to Econometrics (Ph.D.): 2021–2025

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

Camp Resources XXXI: 2025 (scheduled)

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

SOFTWARE

1. R `qte` package: Code for estimating quantile treatment effects particularly when panel data is available
 - Available at 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
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
4. R `ptetools` package: Generic functions for treatment effects with panel data
 - Available at bcallaway11.github.io/ptetools
5. R `ppe` package: Code for policy evaluation during a pandemic
 - Available at 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
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
8. R `ccfa` package: Tools for constructing counterfactual distributions with a continuous treatment
 - Available at weigehuangcon.github.io/ccfa
9. R `distreg` package: Functions related to distribution regression
 - Available at github.com/bcallaway11/distreg
10. R `lige` package: Code to compute local versions of intergenerational elasticities
 - Available at 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

12. R `revealEquations` package: Code for revealing math line-by-line in Quarto or Xaringan presentations.
 - Available at 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
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

HONORS AND FELLOWSHIPS

1. Provost's affordable course materials grant, 2024
2. Kamerschen-Hampton award for outstanding achievement in economics research at the University of Georgia, 2024
3. Aigner Award for best applied paper at the *Journal of Econometrics* for "Difference in differences with multiple time periods", 2023

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 (2025 academic year): 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, Wenzhou 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. Rice University, 2025 (scheduled)
2. Duke University, 2024
3. Goethe University Frankfurt, 2024
4. University of Arkansas, 2024
5. University of Notre Dame, 2024
6. Brandeis University, 2024
7. Georgetown University, 2024
8. Toronto Metropolitan University, 2024
9. Tanzania's Economic and Social Research Foundation, 2024
10. Central European University, 2023
11. George Washington University, 2023
12. Miami University, 2023
13. NEXT-D Workshop at Tulane University, 2023
14. Northeastern University, 2023
15. Queen's University, 2023
16. University of Connecticut, 2023
17. Urban Institute, 2023
18. Virginia Tech, 2023
19. Washington University in St. Louis, 2023
20. Auburn University, 2022,
21. Bureau of Economic Analysis, 2022
22. Columbia University, 2022
23. Emory Quantitative Theory and Methods, 2022
24. Florida State University, 2022
25. McMaster University, 2022
26. Northwestern University, 2022
27. University of Duisburg-Essen, 2022
28. University of Illinois Urbana-Champaign, 2022

29. University of Virginia, 2022
30. University of Wisconsin Agricultural and Applied Economics, 2022
31. University of Zurich, 2022
32. Zhongnan University of Economics and Law, 2022
33. Workshop on current issues in difference-in-differences and two-way fixed effect research designs at the University of Michigan, 2022
34. Amazon, 2021
35. Brown University, 2021
36. Icesi University, 2021
37. Michigan State University, 2021
38. Monash University, 2021
39. University of São Paulo, 2021
40. Difference in Differences Reading Group, 2021
41. One World YoungStats Webinar, 2021
42. Texas A&M, 2020
43. UC Merced, 2020
44. University of Georgia, 2020
45. Vanderbilt University, 2020
46. Southern Methodist University, 2019
47. University of Central Florida, 2018
48. University of Mississippi, 2018
49. University of Pennsylvania, 2018
50. Baylor University, 2016
51. Bureau of Economic Analysis, 2016
52. Concordia University, 2016
53. Consumer Financial Protection Bureau, 2016
54. Indiana University, 2016
55. Lancaster University, 2016
56. Mathematica Policy Research, 2016
57. Temple University, 2016
58. UC Davis, 2016
59. UC Merced, 2016

Conference Presentations:

1. Econometrics at Emory: Causal Inference with Panel Data
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 of 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 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 (2)
9. Canadian Journal of Economics
10. Econometrica (4)
11. Econometrics Journal
12. Econometric Reviews (7)
13. Econometrics and Statistics
14. Economics Letters (2)
15. Empirical Economics (5)
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. iScience
23. International Economic Review
24. Journal of the American Statistical Association
25. Journal of Applied Econometrics (12)
26. Journal of the Association of Environmental and Resource Economists
27. Journal of Business and Economic Statistics (15)
28. Journal of Causal Inference
29. Journal of Econometric Methods (3)
30. Journal of Econometrics (14)
31. Journal of Economic Behavior and Organization
32. Journal of Policy Analysis and Management
33. Journal of Political Economy
34. Journal of Political Economy Microeconomics
35. Labour Economics
36. Nature Human Behavior
37. Oxford Bulletin of Economics and Statistics (2)
38. Proceedings of the National Academy of Sciences
39. Research in Labor Economics
40. Quarterly Journal of Economics (2)
41. Quantitative Economics
42. Review of Economics and Statistics (5)
43. Review of Economic Studies (3)
44. Socio-Economic Review
45. Southern Economic Journal
46. 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. Society of Labor Economists World Congress of Labor Economics Program Committee (submission reviewer), 2025
2. International Association of 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