Ryan Tibshirani

Department of Statistics
417 Evans Hall
Berkeley, CA 94720

`https://www.stat.berkeley.edu/~ryantibs/`
`https://www.github.com/ryantibs/`
ryantibs@berkeley.edu

Positions

Professor, Department of Statistics, University of California, Berkeley	July 2022 –
Principal Investigator, Delphi Group, Carnegie Mellon University	Nov 2012 –
Amazon Scholar, AWS AI Labs	March 2020 – Jan 2024
Professor, Department of Statistics and Machine Learning, Carnegie Mellon University	July 2021 – June 2022
Associate Professor (with Tenure), Departments of Statistics and Machine Learning, Carnegie Mellon University	July 2016 – June 2021
Assistant Professor, Department of Statistics, Carnegie Mellon University	Aug 2011 – June 2016

Education

Ph.D. in Statistics, Stanford University. Thesis: "The Solution Path of the Generalized Lasso". Advisor: Jonathan Taylor.	Sept 2007 – Aug 2011
B.S. in Mathematics, Stanford University. Minor in Computer Science.	Sept 2003 – June 2007

Awards, Fellowships, Honors

Committee of Presidents of Statistical Societies (COPSS) Presidents' Award	Aug 2023
Mortimer Spiegelman Award from the American Public Health Association (APHA)	Nov 2022
Institute of Mathematical Statistics (IMS) Fellowship	Apr 2022
Policy Impact Award* from the American Association of Public Opinion Research (AAPOR)	Apr 2022
Warren J. Mitofsky Innovators Award* from the American Association of Public Opinion Research (AAPOR)	Apr 2022
Allen Newell Award for Research Excellence* from the School of Computer Science, Carnegie Mellon University	Apr 2022
Statistical Partnerships Among Academe, Industry, and Government (SPAIG) Award*	Oct 2021
Teaching Innovation Award from Carnegie Mellon University	Apr 2017

Yahoo! Key Scientific Challenges Winner in Statistics and Machine Learning	Sept 2010
Teaching Assistant Award from Stanford Statistics Department	June 2010
National Science Foundation (NSF) VIGRE Fellowship	June 2007 – Aug 2010
Honors in Mathematics, Distinction from Stanford University	June 2007
Distinction from Stanford University	June 2007
Phi Beta Kappa	June 2007

* = Awarded to the Delphi Group.

Professional Service

Selected Committees, Councils, Boards, Etc.

Institute of Mathematical Statistics (IMS) Council	2022 –
Scientific Advisory Board for Institute for Pure and Applied Mathematics (IPAM)	2019 –
Steering Commitee for Association for Computing Machinery-Institute of Mathematical Statistics (ACM-IMS) Interdisciplinary Summit on Foundations of Data Science	2019
Associate Chair for Joint Statistical Meetings (JSM)	2018

Editorial Service

Founding Editor-in-Chief for Foundations and Trends in Statistics	2024 –
Editor-in-Chief for Foundations and Trends in Machine Learning	2022 –
Editor for Springer Series in the Data Sciences	2018 –
Associate Editor for Journal of Machine Learning Research (JMLR)	2018 – 2022
Associate Editor for Journal of the American Statistical Association (JASA)	2019 – 2020
Associate Editor for Annals of Statistics	2016 – 2020
Area Chair for ML Conferences: Artificial Intelligence and Statistics (AISTATS), International Conference on Machine Learning (ICML), and Neural Information Processing Systems (NIPS) (roughly one AC job per year)	2014 – 2020
Associate Editor for Biometrika	2013 – 2016
Associate Editor for Statistical Analysis and Data Mining	2013 – 2016

Referee Service

Referee for Annals of Statistics, Bernoulli, Journal of the Royal Statistical Society: Series B (JRSS-B), Journal of the American Statistical Society (JASA),	2010 –

Journal of Computational and Graphics Statistics (JCGS), Statistica Sinica, Biometrics, Statistics in Medicine, Journal of Machine Learning Research (JMLR), IEEE Transactions on Information Theory, IEEE Transactions on Pattern Analysis and Machine Intelligence, Operations Research, Proceedings of the National Academy of Sciences (PNAS), Nature, Science

Referee for Neural Information Processing Systems (NIPS) and International Conference on Machine Learning (ICML) — 2013 – 2017

Panelist for National Science Foundation (NSF) Division of Mathematical Sciences (DMS) Grant Program, National Security Agency and American Mathematical Society (NSA-AMS) Grant Program — 2013 –

Grants and Gift Funding

"The Delphi Center for Outbreak Analytics and Disease Modeling in Public Health Response", Centers for Disease Control and Prevention (CDC) and the Council of State and Territorial Epidemiologists (CSTE) grant no. NU38FT00005, total award amount (for UC Berkeley subcontract) $2,069,525 (PI) — Sept 2023 – Sept 2028

"Development of Forecast, Analytic, and Visualization Tools to Improve Outbreak Response and Support Public Health Decision-Making", Centers for Disease Control and Prevention (CDC) and the Council of State and Territorial Epidemiologists (CSTE) grant no. NU38OT000297, total award amount $250,000 (PI) — Feb 2023 – July 2024

"Digital Public Health Surveillance for the 21st Century", Centers for Disease Control and Prevention (CDC) grant no. 75D30123C15907, total award amount (for UC Berkeley subcontract) $478,795 (PI) — Feb 2023 – Feb 2024

"New Perspectives on Deep Learning: Bridging Approximation, Statistical, and Algorithmic Theories", National Science Foundation (NSF) Stimulating Collaborative Advances Leveraging Expertise in the Mathematical and Scientific Foundations of Deep Learning (SCALE MoDL) grant no. 2134133, total award amount (for CMU subcontract) $450,000 (PI) — Nov 2021 – Oct 2024

Unrestricted Gift from Google.org supporting Delphi's COVIDcast project, $1,000,000 (PI) — Sept 2020

Unrestricted Gift from Facebook supporting Delphi's COVIDcast project, $600,000 (PI) — May 2020

"Theoretical Foundations of Deep Learning", Office of Naval Research (ONR) Multidisciplinary University Research Initiative (MURI) grant no. N00014-20-1-2787, total award amount (for CMU subcontract) $903,104 (PI) — July 2020 – July 2025

"Delphi Influenza Forecasting Center of Excellence", Centers for Disease Control and Prevention (CDC) grant no. U01IP001121, total award amount $3,000,000 (co-PI, Roni Rosenfeld is PI) — Sept 2019 — Aug 2024

"Improved Nowcasting via Adaptive Boosting of Highly Variable Biosurveillance Data Sources", Defense Threat Reduction Agency (DTRA) grant no. HDTRA1-18-C-0008, total award amount $1,016,057 (co-PI, Roni Rosenfeld is PI) — Nov 2017 – May 2020

"Locally Adaptive Nonparametric Estimation for the Modern Age — New Insights, Extensions, and Inference Tools", National Science Foundation (NSF) Division of Mathematical Sciences (DMS) CAREER grant no. 1554123, total award amount $400,000 (PI)	July 2016 – June 2021
"Graph Trend Filtering for Recommender Systems", Adobe Digital Marketing Research Awards, total award amount $50,000, (co-PI, Alex Smola is PI)	Sept 2014 – Sept 2015
"Advancing Theory and Computation in Statistical Learning Problems", National Science Foundation (NSF) Division of Mathematical Sciences (DMS) grant no. 1309174, total award amount $150,000 (PI)	July 2013 – June 2016

Papers

See: `https://www.stat.berkeley.edu/~ryantibs/research.html`
Also: `https://scholar.google.com/citations?user=cQ1P1qoAAAAJ&hl=en`

Software

See: `https://www.stat.berkeley.edu/~ryantibs/software.html`

Teaching

See: `https://www.stat.berkeley.edu/~ryantibs/teaching.html`

Talks

See: `https://www.stat.berkeley.edu/~ryantibs/talks.html`