Ryan Tibshirani

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Sept 2003 – June 2007

Positions

Professor, Depts. of Statistics and Machine Learning, Carnegie Mellon University	July 2021 –
Amazon Scholar, AWS AI Labs	March 2020 –
Principal Investigator, Delphi Group, Carnegie Mellon University	Nov 2012 –
Associate Professor, Depts. of Statistics and Machine Learning, Carnegie Mellon University	July 2016 – June 2021
Assistant Professor, Dept. 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.

Grants, Gift Funding

"New Perspectives on Deep Learning: Bridging Approximation, Statistical, and Algorithmic Theories", National Science Foundation (NSF) Stimulating Collaborative Advances Leveraging Expertise in the Mathematical and Sci- entific 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 COVID cast project, $1,000,000~(\mathrm{PI})$	Sept 2020
Unrestricted Gift from Facebook supporting Delphi's COVID cast project, $600,000~(\mathrm{PI})$	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 Biosurveil- lance 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

Awards, Fellowships, Honors

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
National Science Foundation (NSF) VIGRE Fellowship	June 2007 – Aug 2010
Honors in Mathematics, Distinction from Stanford University	June 2007
Phi Beta Kappa	June 2007

 * = Awarded to the Delphi Group.

Professional Service

Selected Committees

Institute of Mathematical Statistics (IMS) Council	July 2022 – July 2025
Scientific Advisory Board for Institute for Pure and Applied Mathematics (IPAM)	2019 -

Steering Committee for Association for Computing Machinery-Institute of Mathematical Statistics (ACM-IMS) Conference on Foundations of Data Science	2020
Steering Commitee for Association for Computing Machinery-Institute of Mathematical Statistics (ACM-IMS) Interdisciplinary Summit on Founda- tions of Data Science	2019
Associate Chair for Joint Statistical Meetings (JSM)	2018
Editorial Service	
Editor for Springer Series in the Data Sciences	2018 -
Associate Editor for Journal of Machine Learning Research (JMLR)	2018 -
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 (AIS- TATS), International Conference on Machine Learning (ICML), and Neural Information Processing Systems (NIPS) (usually 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 So- ciety: Series B (JRSS-B), Journal of the American Statistical Society (JASA), 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)	2010 –
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) CAREER Grant Program	2021
Panelist for National Science Foundation (NSF) Division of Mathematical Sciences (DMS) Grant Program	2015
Referee for National Security Agency and American Mathematical Society (NSA-AMS) Grant Program	2013

Research Articles

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

Software

See: https://www.github.com/ryantibs/.

Teaching

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

Talks

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