Stanford



# Aaditya Ramdas

Associate Professor of Statistics

## Bio

### BIO

Aaditya Ramdas is an Associate Professor (with tenure) in the Department of Statistics. He was a postdoc at UC Berkeley (2015–2018) mentored by Michael Jordan and Martin Wainwright, and obtained his PhD at Carnegie Mellon University (2010–2015) under Aarti Singh and Larry Wasserman, receiving the Umesh K. Gavaskar Memorial Thesis Award. His undergraduate degree was in Computer Science from IIT Bombay (2005-09, All India Rank 47), from whom he recently received a Young Alumnus Achiever Award (2026).

His work has been recognized by the Presidential Early Career Award (PECASE), the highest distinction bestowed by the US government to young scientists. He has also received a Kavli fellowship from the National Academy of Sciences, a Sloan fellowship in Mathematics, the CAREER award from the National Science Foundation, the Emerging Leader Award from COPSS (Committee of Presidents of Statistical Societies), early career awards from the Bernoulli Society and the Institute of Mathematical Statistics, and faculty research awards from Adobe and Google. He was recently elected Fellow of the IMS, was awarded Statistician of the Year 2025 by the the American Statistical Associaton Pittsburgh Chapter. He was the program chair of AISTATS 2026, and the general chair of AISTATS 2027.

He has published over 150 peer-reviewed papers, about half at top journals like The Annals of Statistics, Biometrika, IEEE Transactions on Information Theory and PNAS, including prestigious discussion papers at the Journal of the Royal Statistical Society and Journal of the American Statistical Association, and about half at the top AI conferences like NeurIPS, ICML, ICLR, UAI and AISTATS, including over a dozen orals/spotlights. He has given several keynote talks invited tutorials.

Aaditya's research in mathematical statistics and learning has an eye towards designing algorithms that both have strong theoretical guarantees and also work well in practice. His main interests include post-selection inference (multiple testing, simultaneous inference), game-theoretic statistics (e-values, confidence sequences) and predictive uncertainty quantification (conformal prediction, calibration).

### ACADEMIC APPOINTMENTS

- Associate Professor, Statistics

## Teaching

### COURSES

**2026-27**

- Introduction to Nonparametric Statistics: STATS 205 (Win)

- Sequential Analysis: STATS 223, STATS 323 (Aut)

### STANFORD ADVISEES

**Postdoctoral Faculty Sponsor**

Hamish Flynn, Rohan Hore

## Publications

### PUBLICATIONS

- **Nonasymptotic heavy-tailed mean estimation in smooth Banach spaces** *STOCHASTIC PROCESSES AND THEIR APPLICATIONS*
  Whitehouse, J., Chugg, B., Martinez-Taboada, D., Ramdas, A.
  2026; 198
- **TIME-UNIFORM SELF-NORMALIZED CONCENTRATION FORVECTOR-VALUED PROCESSES** *ANNALS OF APPLIED PROBABILITY*
  House, J., Wu, Z., Ramdas, A.
  2026; 36 (3): 1972-2013
- **De Finetti's theorem and related results for infinite weighted exchangeable sequences** *BERNOULLI*
  Barber, R., Candes, E. J., Ramdas, A., Tibshirani, R. J.
  2024; 30 (4): 3004-3028
- **ON THE EXISTENCE OF POWERFUL P-VALUES AND E-VALUES FOR COMPOSITE HYPOTHESES** *ANNALS OF STATISTICS*
  Zhang, Z., Ramdas, A., Wang, R.
  2024; 52 (5): 2241-2267
- **Permutation Tests Using Arbitrary Permutation Distributions** *SANKHYA-SERIES A-MATHEMATICAL STATISTICS AND PROBABILITY*
  Ramdas, A., Barber, R., Candes, E. J., Tibshirani, R. J.
  2023
- **CONFORMAL PREDICTION BEYOND EXCHANGEABILITY** *ANNALS OF STATISTICS*
  Barber, R., Candes, E., Ramdas, A. A., Tibshirani, R.
  2023; 51 (2): 816-845
- **A general interactive framework for false discovery rate control under structural constraints** *BIOMETRIKA*
  Lei, L., Ramdas, A., Fithian, W.
  2021; 108 (2): 253-267
- **The limits of distribution-free conditional predictive inference** *INFORMATION AND INFERENCE-A JOURNAL OF THE IMA*
  Barber, R., Candes, E. J., Ramdas, A., Tibshirani, R. J.
  2021; 10 (2): 455-482
- **PREDICTIVE INFERENCE WITH THE JACKKNIFE** *ANNALS OF STATISTICS*
  Barber, R., Candes, E. J., Ramdas, A., Tibshirani, R. J.
  2021; 49 (1): 486–507
- **Uncertainty quantification using martingales for misspecified Gaussian processes**
  Neiswanger, W., Ramdas, A.
  edited by Feldman, Ligett, K., Sabato, S.
  JMLR-JOURNAL MACHINE LEARNING RESEARCH.2021
- **Conformal Prediction Under Covariate Shift**
  Tibshirani, R. J., Barber, R., Candes, E. J., Ramdas, A.
  edited by Wallach, H., Larochelle, H., Beygelzimer, A., d'Alche-Buc, F., Fox, E., Garnett, R.
  NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2019