KARUN ADUSUMILLI
Department of Economics
University of Pennsylvania
Philadelphia, USA

Academic Position

2019-PRESENT UNIVERSITY OF PENNSYLVANIA
　　　　　Assistant Professor of Economics

2018-2019 UNIVERSITY OF PENNSYLVANIA
　　　　　Lecturer

Education

2018　　　London School of Economics
　　　　　Doctor of Philosophy in Economics

2013　　　London School of Economics
　　　　　MSc Econometrics and Mathematical Economics

2011　　　Indian Institute of Technology, Delhi
　　　　　B.Tech in Engineering Physics

Working Papers

2022　　　Neyman allocation is minimax optimal for best arm identification with two arms, *https://arxiv.org/abs/2204:05527 (2022), Updated: October 2022.*

2022　　　How to sample and when to stop sampling: The generalized Wald problem and minimax policies, *Updated: October 2022.*

2021　　　Risk and optimal policies in bandit experiments, *https://arxiv.org/abs/2112.06363 (2021), Submitted, Updated: August 2022.*

2021　　　Temporal-difference estimation of dynamic discrete choice models, (joint with Dita Eckardt), *arXiv preprint arXiv:1912.09509 (2021), Submitted, Updated: August 2022.*

2021　　　Dynamically optimal treatment allocation using reinforcement learning, (joint with Friedrich Geiecke and Claudio Schilter), *Reject and Resubmit, American Economic Review.*

2021　　　Reweighted non-parametric likelihood inference for linear functionals, (joint with Taisuke Otsu and Chen Qiu), *Revise and Resubmit, Electronic Journal of Statistics.*

2021　　　Unobserved heterogeneity, grouped random effects, and the EAMP algorithm, *Updated: March 2022.*

2018　　　Bootstrap inference for propensity score matching, *Updated: August 2022.*

Peer Reviewed Publications

2019   Inference on distribution functions under measurement error, (joint with Daisuke Kurisu, Taisuke Otsu, and Yoon-Jae Whang), *Journal of Econometrics,* 2020, 215(1), pp. 131-164.

2018   "Nonparametric instrumental regression with errors in variables", (joint with Taisuke Otsu), *Econometric Theory,* 2018, 34(6), pp. 1256-1280.

2017   "Empirical Likelihood for random sets", (joint with Taisuke Otsu), *Journal of the American Statistical Association,* 2017, 112(519), pp. 1064-1075.

Work in Progress

2022   A reappraisal of the effects of class size on children's learning (joint with Francesco Agostinelli and Emilio Borghesan)

Honors and Awards

2021   Kravis Award for Undergraduate Teaching in Economics

2019   John Hicks prize for outstanding PhD Dissertation

2014   John Hicks prize for outstanding performance in MRes Economics

2013   Ely Devons prize for exceptional performance in MSc

2011   JN Tata endowment scholarship

2010   MITACS Globalink fellowship

2005   National Talent Search Scholarship (Govt. of India)

Service

Reviewer for *Review of Economic Studies, Econometric Theory, Journal of Business and Economic Statistics, Econometric Reviews, Journal of Econometrics, Quantitative Economics, IEEE Transactions on Signal Processing, Metrika, Journal of the American Statistical Association*

Teaching Experience

2021/22   Econ 103 - Statistics for Economists; Econ 705 - Econometrics I: Fund; Econ 224 - Statistical learning and causal inference

2020/21   Econ 103 - Statistics for Economists; Econ 705 - Econometrics I: Fund; Econ 224 - Statistical learning and causal inference

2019/20   Econ 103 - Statistics for Economists; Econ 705 - Econometrics I: Fund

2018/19   Econ 103 - Statistics for economists

2013/18   Teaching fellow - London School of Economics

Presentations

2022/23   Michigan State University, Bravo center workshop on the Economics of Algorithms (forthcoming), University of Pittsburgh (forthcoming), AEA-ASSA annual meetings (forthcoming)

2021/22   Boston University, LSE, AEA-ASSA annual meetings, Chamberlain seminar, Cowles conference in Econometrics

2020/21   UCLA, University of Chicago, University of Southern California, UCL, UC San Diego, NYU, INFORMS, AEA-ASSA annual meetings

2019/20   Vanderbilt, Yale, Brown, North Carolina State University, Bristol Econometrics study group, AEA-ASSA annual meetings

2018/19   Columbia, Penn State, University of Virginia, Princeton, Harvard-MIT, Greater New York Area econometrics conference, CEMMAP/UCL conference on Personalized treatment