

Advait R. Aiyer

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RESEARCH INTERESTS	development economics; industrial organization; higher education markets; Bayesian statistics	
EDUCATION	The Wharton School of The University of Pennsylvania , Philadelphia, PA, USA <i>Ph.D. in Applied Economics</i>	2020 –
	The New School for Social Research , New York, NY, USA <i>MS in Economics</i>	2018
	St. Joseph's College of Arts and Sciences , Bangalore University, India <i>BSc. in Economics, Mathematics, Statistics</i>	2014
FELLOWSHIPS & AWARDS	Penn Development Research Initiative Graduate Student Research Grant	2022
	Penn Development Research Initiative Fellow	2021
	The Wharton School, Doctoral Education Fellowship	2020
	The New School for Social Research, Dean's Fellowship Award	2017
	The New School for Social Research, Dean's Merit Scholarship	2015
ARTICLES	PEER REVIEWED	
	Bayesian Analysis of Randomized Controlled Trials (w. A. Pavlakis and J.K. Bautista), <i>International Journal of Eating Disorders</i> , DOI: 10.1002/eat.22928, 2018.	
	WORKING PAPERS	
	Multilevel Modeling of Infant Mortality in India. (w. A. Pavlakis and J.K. Bautista) [<i>R&R at the Journal of Development Studies</i>]	
	The Structure of Input-Output Linkages and Economic Growth (w. J. Yang, L.D Torres-Gonzalez, and D. Farmer) [<i>submitted</i>]	
	Caste, access to credit and social engagement: A network theoretic approach.	
RESEARCH EXPERIENCE	University of Pennsylvania, Philadelphia, PA, USA	
	<i>Research Assistant for Prof. H. Schofield</i> <ul style="list-style-type: none"> Working on research studying loneliness in migrant factory workers in India 	Mar 2022 - Present
	<i>Research Assistant for Prof. S. Anagol</i> <ul style="list-style-type: none"> Worked with the Indian Consumer Pyramids Household panel dataset Analyzed measures of household finance like household consumption, expenditure, and borrowing Estimated household marginal propensity to consume in responses to permanent and transitory income shocks 	Jun 2021 - Aug 2021
	<i>Research Assistant for Prof. C. Low</i> <ul style="list-style-type: none"> Worked with Ambika Sharma and Dr. Gareth Roberts at the World Bank Africa Gender Innovation Lab's Supporting Women's Livelihoods project Drafted grant proposals, revised Prof. Low's job market paper for submission 	Mar 2021 - Oct 2021
	Abdul Latif Jameel Poverty Action Lab (J-PAL South Asia), Goa, India <i>Research Associate at the Behavioral Development Lab</i> <ul style="list-style-type: none"> Worked with Profs. G. Rao (Harvard University), F. Schilbach (Massachusetts Institute of Technology), J. Haushofer and J. de Quidt (IIES, Stockholm University) to investigate the economic consequences of depression and psychotherapy 	Jun 2018 - Jun 2020

- Led a lab-in-the-field, designed and implemented behavioral experiments, surveys, and tasks to measure belief updating, information processing, and preferences (risk, social, and time)

Columbia University, New York, NY, USA

Oct 2017 - Present

- Develop teaching material for Bayesian Statistics and Introduction to Stan with Prof. A. Gelman and Dr. B. Carpenter
- Working with M. Morris to write a book on Bayesian Statistics with Stan
- Working on contributing to RStanArm package - facilitating ARIMA models

The New School for Social Research, New York, NY, USA

Aug 2017 - Apr 2018

Research Assistant for Prof. R Flek in the Quantitative Reasoning Department

- Helped develop teaching tools for statistics and probability and made reproducible Mathematica notebooks to aid the teaching of statistics

TEACHING EXPERIENCE

University of Pennsylvania, Philadelphia, PA, USA

Teaching Assistant [Applied Econometrics, HCMG901]

Spring 2022

- Work with Prof. A. Gupta on a PhD course
- Responsible for grading the students' problem sets and providing individual feedback

The New School for Social Research, New York, NY, USA

Instructor [Quantitative Reasoning II: Research Methods and Data Viz.]

Fall 2017 - Spring 2018

- Primary instructor for an undergraduate course
- Taught statistics, probability, and applications using Mathematica

Teaching Assistant [Advanced Microeconomics I, GECO 6200]

Fall 2016

- Work with Prof. S. Reddy on a PhD course
- Instructor for the lab component of the first year PhD course in microeconomic theory

Specialist Math Tutor [University Learning Center]

Sep 2015 – Sep 2016

- Taught mathematics, economics, statistics, data analysis and computing

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

R, Stan, Python [scikit-learn], Mathematica, Octave, L^AT_EX, Stata

APPLICATIONS

causal inference methods; panel data analysis; time series analysis; data visualization; Bayesian hierarchical models; MCMC sampling including Hamiltonian Monte Carlo algorithms; machine learning; variational inference; expectation maximization; network analysis; R package development

LANGUAGES

English (native) • Hindi (fluent) • Tamil (fluent) • Arabic (basic reading and writing) • Bengali (basic speaking) • Malayalam (basic speaking) • Kannada (basic speaking)

INTERESTS

motorcycles, aquascaping, succulents, basketball, swimming, Pink Floyd, darkpsy

REFERENCES

Prof. Heather Schofield

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Prof. Santosh Anagol

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