

# Advait R. Aiyer

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<b>RESEARCH INTERESTS</b>	development economics; industrial organization; higher education markets; Bayesian statistics	
<b>EDUCATION</b>	<b>The Wharton School of The University of Pennsylvania</b> , Philadelphia, PA, USA <i>Ph.D. in Applied Economics</i>	<b>2020 –</b>
	<b>The New School for Social Research</b> , New York, NY, USA <i>MS in Economics</i>	<b>2018</b>
	<b>St. Joseph's College of Arts and Sciences</b> , Bangalore University, India <i>BSc. in Economics, Mathematics, Statistics</i>	<b>2014</b>
<b>FELLOWSHIPS &amp; AWARDS</b>	Penn Center for the Advanced Study of India Summer Research Funds	<b>2022</b>
	Penn Development Research Initiative Graduate Student Research Grant	<b>2022</b>
	Penn Development Research Initiative Fellow	<b>2021</b>
	The Wharton School, Doctoral Education Fellowship	<b>2020</b>
	The New School for Social Research, Dean's Fellowship Award	<b>2017</b>
	The New School for Social Research, Dean's Merit Scholarship	<b>2015</b>
<b>ARTICLES</b>	<b>PEER REVIEWED</b>	
	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.	
	<b>WORKING PAPERS</b>	
	Multilevel Modeling of Infant Mortality in India. (w. A. Pavlakis and J.K. Bautista) [ <i>R&amp;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.	
<b>RESEARCH EXPERIENCE</b>	<b>University of Pennsylvania, Philadelphia, PA, USA</b>	
	<i>Research Assistant for Prof. H. Schofield</i>	<b>Mar 2022 - Present</b>
	▪ Working on research studying loneliness in migrant factory workers in India	
	<i>Research Assistant for Prof. S. Anagol</i>	<b>Jun 2021 - Aug 2021</b>
	▪ 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	
	<i>Research Assistant for Prof. C. Low</i>	<b>Mar 2021 - Oct 2021</b>
	▪ Worked with Ambika Sharma and Dr. Gareth Roberts at the World Bank Africa Gender Innovation Lab's Supporting Women's Livelihoods project	
	<b>Abdul Latif Jameel Poverty Action Lab (J-PAL South Asia), Goa, India</b>	<b>Jun 2018 - Jun 2020</b>
	<i>Research Associate at the Behavioral Development Lab</i>	
	▪ 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	

- 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<sup>A</sup>T<sub>E</sub>X, 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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The University of Pennsylvania  
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**Prof. Santosh Anagol**

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