

Advait Rajagopal

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RESEARCH INTERESTS

development economics; inequality; health economics, statistical methodology, Bayesian modeling, machine learning and network analysis

EDUCATION

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

Master of Science (MS) in Economics [GPA: 3.85/4.00]

Aug 2015 – May 2018

- graduate microeconomics; macroeconomics and econometrics; maximum entropy approaches to choice and behavior; economic development; labor economics; statistical mechanics and econophysics
- Bayesian statistics and computation; classical and Bayesian machine learning; network data analysis and graph theory; probability theory; hierarchical / multilevel models; Bayesian econometrics

St. Joseph's College of Arts and Sciences, Bangalore University, India

Jun 2011 – Jun 2014

Bachelor of Science (BSc.) in Economics, Mathematics, Statistics [GPA: 4.79/5.00]

- Linear algebra; real and complex analysis; numerical methods; discrete mathematics; abstract algebra; multivariate calculus and differential equations
- Probability theory; classical statistics; hypothesis testing and estimation; operations research; experimental design; optimization and statistical quality control
- Micro and macroeconomic theory; game theory; development economics; mechanism design; financial economics; mathematical economics; international trade; public finance; history of economic thought

AWARDS

The New School for Social Research, Dean's Fellowship Award

Apr 2017 – Present

The New School for Social Research, Dean's Merit Scholarship

Aug 2015 – Apr 2017

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

R, Stan, Python [scikit-learn], Mathematica, Octave, \LaTeX , Stata

APPLICATIONS

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

PUBLICATIONS

JOURNALS AND CONFERENCES

Bayesian Analysis of Randomized Controlled Trials (w. A. Pavlakis and J.K. Bautista), *International Journal of Eating Disorders*, DOI: 10.1002/eat.22928, 2018.

Multilevel modeling of Infant Mortality in India. (w. A. Pavlakis and J.K. Bautista) [*revise and resubmit at the Journal of Development Studies*]

The Systemic Nature of Corruption, *Social Science Research Network (SSRN)*, 2016.

The Relationship between Infant Mortality Rate and Health Expenditure in India: A Bayesian Approach, *Social Science Research Network (SSRN)*, 2016.

Substantiation of democracy as a responsibility of the media, *Proceedings of the National Conference on Media Ethics and Social Responsibility*, [ISBN 978-81-7086-697-8], 2013.

WORKING PAPERS

The Structure of Input-Output Linkages and Economic Growth (w. J. Yang, L.D Torres-Gonzalez, F. Lafond and D. Farmer).

Caste, access to credit and social engagement: A network theoretic approach.

Corruption in licensing and the canonical social interaction model.

Bayesian hierarchical models relating growth rates, debt to GDP ratios and financial stress (w. C. Schoder).

RESEARCH AND WORK EXPERIENCE	Abdul Latif Jameel Poverty Action Lab (J-PAL South Asia), Goa, India Jun 2018 - Present <i>Research Associate [The Economic Consequences of Depression]</i> <ul style="list-style-type: none"> Work with Profs. G. Rao (Harvard University), F. Schilbach (Massachusetts Institute of Technology), J. Haushofer (Princeton University), J. de Quidt (IIES, Stockholm University) to conduct research in the field of behavioral development economics Lead implementation of behavioral experiments and surveys in the field, to study how depression and psychotherapy affect economic behavior like risk taking, information processing, and beliefs
	Columbia University, New York, NY, USA Oct 2017 - Present <ul style="list-style-type: none"> Develop teaching material for Bayesian Statistics and Introduction to Stan with Prof. A. Gelman and Dr. B. Carpenter Working with Prof. A. Gelman, M. Morris and J. Gabry 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 <i>Research Assistant [Quantitative Reasoning Department]</i> <ul style="list-style-type: none"> Work with Prof. R. Flek Help develop teaching tools for statistics and probability and make reproducible Mathematica notebooks to aid the teaching of statistics
	Amundi Asset Management, Abu Dhabi, U.A.E Summer 2015 <i>Internship [Institutional Investment Sales Department]</i> <ul style="list-style-type: none"> Analysis for institutional investor strategies, researched the institutional market in the Middle East and helped sign new clients
TEACHING EXPERIENCE	The New School for Social Research, New York, NY, USA Fall 2017 - Spring 2018 <i>Instructor [Quantitative Reasoning II: Research Methods and Data Visualization]</i> <ul style="list-style-type: none"> Primary instructor for the course, teach statistics, probability, and applications using Mathematica
	<i>Graduate Teaching Assistant [Advanced Microeconomics I, GECO 6200]</i> Fall 2016 <ul style="list-style-type: none"> Instructor for the lab component of a core PhD course in microeconomics. (w.Prof. S. Reddy)
	<i>Specialist Math Tutor [New School University Learning Center]</i> Sep 2015 – Sep 2016 <ul style="list-style-type: none"> Taught mathematics, economics, statistics, data analysis and computing
LANGUAGES	English; Hindi; Tamil; Arabic; Bengali; Malayalam; Kannada
ACTIVITIES	Member of Toastmaster's International and a Competent Toastmaster, also a trained speech evaluator Won several debates, elocutions and extempore speaking competitions Played basketball for St. Joseph's College and Delhi Private School Sharjah for 9 years Chairperson and delegate at 10+ Model United Nations conferences, won Best Delegate many times Black belt in Budokan Karate and Blue belt in Taekwon-do
INTERESTS	Riding, collecting and building motorcycles, aquascaping and fish breeding, succulent and cactus growing, basketball, swimming, playing the guitar, Pink Floyd.
REFERENCES	<ul style="list-style-type: none"> Professor Gautam Rao Department of Economics Littauer Center M-30, Harvard University, Cambridge, MA, 02138 grao@fas.harvard.edu • +1-617-496-2614 Professor Andrew Gelman Department of Statistics, Department of Political Science 1016 Social Work Bldg (Amsterdam Ave. at 122 St.), Columbia University, New York, NY, 10027 gelman@stat.columbia.edu • +1-212-851-2142 / +1-212-229-5100 x3443

[CV compiled on 2019-12-12]