

Advait R. Aiyer

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| RESEARCH INTERESTS | development economics; higher education markets; health economics; Bayesian modeling; machine learning; network analysis | |
| 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 |
| AWARDS | The Wharton School, Doctoral Education Fellowship | 2020-2025 |
| | The New School for Social Research, Dean's Fellowship Award | 2017 |
| | The New School for Social Research, Dean's Merit Scholarship | 2015 |
| TECHNICAL SKILLS | PROGRAMMING LANGUAGES R, Stan, Python [scikit-learn], Mathematica, Octave, L ^A T _E X, Stata | |
| | APPLICATIONS Bayesian hierarchical models; partial pooling; MCMC sampling methods including Hamiltonian Monte Carlo algorithms; machine learning; variational inference; expectation maximization; panel data analysis; time series analysis; network analysis; data visualization; R package development | |
| PUBLICATIONS | JOURNALS AND CONFERENCES | |
| | 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. | |
| | Multilevel modeling of Infant Mortality in India. (w. A. Pavlakis and J.K. Bautista) [<i>revise and resubmit at the Journal of Development Studies</i>] | |
| | The Relationship between Infant Mortality Rate and Health Expenditure in India: A Bayesian Approach, <i>Social Science Research Network (SSRN)</i> , 2016. | |
| | Substantiation of democracy as a responsibility of the media, <i>Proceedings of the National Conference on Media Ethics and Social Responsibility</i> , [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). | |
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| RESEARCH AND WORK EXPERIENCE | Abdul Latif Jameel Poverty Action Lab (J-PAL South Asia), Goa, India <i>Research Associate [The Economic Consequences of Depression]</i> | Jun 2018 - Present |
| | <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 economicsLead 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**
 ■ 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**
Research Assistant [Quantitative Reasoning Department]
 ■ 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**
Internship [Institutional Investment Sales Department]
 ■ 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**
Instructor [Quantitative Reasoning II: Research Methods and Data Viz.]
 ■ Primary instructor for the course, teach statistics, probability, and applications using Mathematica
Graduate Teaching Assistant [Advanced Microeconomics I, GECO 6200] **Fall 2016**
 ■ Instructor for the lab component of a core PhD course in microeconomics. (w.Prof. S. Reddy)
Specialist Math Tutor [New School University Learning Center] **Sep 2015 – Sep 2016**
 ■ Taught mathematics, economics, statistics, data analysis and computing

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

REFERENCES

- **Prof. Gautam Rao**
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- **Prof. Andrew Gelman**
 Department of Statistics, Department of Political Science
 1016 Social Work Bldg (Amsterdam Ave. at 122 St.), Columbia University, New York, NY, 10027
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- **Prof. Johannes Haushofer**
 Department of Economics
 Stockholm University 106 91 Stockholm, Sweden
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