

Arjun Gupta

Curriculum Vitae

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Education

2019–2020 **M.S., Economics**, Indian Institute of Technology Kanpur, City, GPA – **10.0/10.0**.

2015–2019 **B.S., Economics**, Indian Institute of Technology Kanpur, India,
GPA – **9.5/10.0**, Department Rank **1**.

2015 **MVM Senior Secondary School, Jammu**,
Central Board of Secondary Examination, Class 12,
Percentage - 96.60%.

2013 **Army Public School Kaluchak, Jammu**,
Central Board of Secondary Examination, Class 12,
CGPA - 10.0/10.0.

Master thesis

Title *Heterogeneity in Food Expenditure amongst US Families: Evidence from Longitudinal Quantile Regression*

Supervisors Prof. Mohammad Arshad Rahman

Description

- Analyzing the impact of recession, socio-economic and demographic factors on the total food expenditure, food expenditure at home & away from home among the U.S. households
- Capturing heterogeneity in the covariate effect using mean regression and quantile regression mixed models for longitudinal data for longitudinal PSID data
- Quantile analysis show a considerable heterogeneity in the covariate effects for all types of food expenditure, especially for economic recession and homeowners having mortgages

Experience

May 2019 – **Monetary Policy Intern**, Reserve Bank of India, Mumbai, India.

July 2019 *Drivers of Inflation Expectations in India - A City Level Analysis*.

- Analyzed the impact of inflation levels of commodities on current perceptions of inflation & inflation expectations over 1-year horizon among the households using IESH survey
- Deployed dynamic panel data models with panel error corrected estimation technique and cointegration analysis on IESH data of 18 cities across India between 2008-2017
- Results indicate overall headline inflation to be a major factor indicating expectations are not yet well anchored in India & cointegration estimates showed that fluctuations in price indices take about 5-6 quarters to get completely reflected in expectations.

May 2018 – **Undergraduate Research Fellow**, University of Victoria, British Columbia, Canada.

July 2018 *Collective Bargaining Rights and Influence on Police Killings* | Advisor - Prof. Rob Gillezeau

- Analyzed the effect of collective bargaining rights to police on the number of non-white deaths between 1959 to 1984 using *Public Sector Collective Bargaining Law (1988)* dataset
- Modelling heterogeneity in killings at the state and county level using *event history analysis*
- Impact of collective bargaining rights in contiguous border counties

May 2017 – **Research Intern, SURGE'17**, IIT Kanpur, India.

- July 2017 *Online Markets and Crimes: An Economic Perspective* | Advisor - Prof. Praveen Kulshreshtha
- Calculated cyber-security costs incurred by firms and impact on the prices and demand of goods in monopoly & oligopoly online markets using probability function
 - Using Stackelberg model in oligopoly online market to explain the effects of sharing information on cyber attacks among firms on market factors and frequency of attacks
 - Correlation between the socio-economic factors like GDP, internet users, corruption, etc & the rate of cyber crimes using cross section data on developed and developing countries

Awards & Achievements

2019 – 2020 **National RBI Policy Challenge 2019**, Reserve Bank of India, Mumbai, India.

- Won a 3-tier national competition amongst 300+ reputed B-schools in India
- Adjudged the best group by eminent panel of economists including *Dr. Viral Acharya, Former Deputy Governor, RBI*
- Received a cash prize of INR 12500 and awarded 3-month long internship at RBI

2018 - 2019 **Academic Excellence Award**, IIT Kanpur.

Awarded for the best annual performance for the academic session 2018-19

2018 **MITACS Canada Scholarship'18**.

Received an international Summer Research Fellowship of 6000 USD to work as undergraduate researcher in Department of Economics at University of Victoria, Canada

2017 **SURGE**, IIT Kanpur.

Received Summer Undergraduate Research Grant for Excellence 2017, offered to top 2% students out of more than 2000 applicants nationwide

2011 - 2020 **Scholastic Achievements**.

- Outstanding (A*) grade in 8 courses, awarded to top 2% students in the coursework
- Among top 5% of 1.5 million candidates appearing for Joint Entrance Examination 2015
- Secured rank 1 in National Talent Search Examination Level -1 in Jammu & Kashmir, 2012
- Winner of Limca Book of Records Quiz, Jammu Edition, 2012
- Secured State Rank 2 in National Science Talent Search Examination (NSTSE), 2012
- Secured Rank 1 in National Science Olympiad conducted by SOF in Jammu & Kashmir, 2011

Skills

Languages Python, C, \LaTeX

Statistical Tools R, MATLAB, STATA, E-Views

Relevant Courses

Statistics Probability & Statistics, Econometrics I & II, Financial Econometrics, Statistical Simulation & Data Simulation, Introduction to Machine Learning, Bayesian Econometrics, Markov Chain Monte Carlo

Economics Microeconomics I & II, Macroeconomics I & II, International Economics & Finance, Development Economics, Economic Growth Theory, Industrial Organization, Contract Theory, Monetary Economics, Economic Analysis of Law, Foundations of Finance

Mathematics Linear Algebra, Analysis I, Differential Calculus, Ordinary/Partial Differential Equations, Complex Variable (Calculus), Mathematics for Economists, Topics in Topology

Miscellaneous Neurobiology, Principles of Biotechnology, Psychology of Adjustment, Introduction to Sociology, Society & Social Problems of India

Conferences Attended

- July 2018 **Joint Statistical Meeting (JSM)**, *Vancouver*, British Columbia, Canada.
- June 2018 **Unsettling Economics Workshop on Indigenous Histories and Cultures**, *University of Victoria*, British Columbia, Canada.

Extra Curriculars

- Apr 2018 - **Institute Counselling Service, IIT Kanpur**, Student Coordinator.
- Apr 2019
- Led a team of 200 students & ensured smooth conduction of 8-day Orientation Program
 - Worked in tandem with 5 counsellors and 2 psychiatrists to organise sessions providing academic and emotional support to the campus community
 - Launched a new initiative *SAMVAD*, year-long event comprising of panel discussions, talks, Hakuna Matata and competitions aimed at promoting awareness on sound mental health
- Apr 2017 - **Institute Counselling Service, IIT Kanpur**, Member, Core Team Academics.
- Apr 2018
- Conceptualised and successfully organised Computer Literacy Classes, English Conversation Classes and Technical Terminology Classes to aid students facing difficulty in academics
 - Personally supported eight indigent students and helped them come out of Academic Probation
 - Organized remedial classes, academic sessions & one-to-one mentoring for freshmen & sophomores
- Apr 2017 - **Economics Student Society, IIT Kanpur**, Member, Core Team.
- Apr 2018
- Voiced the student community views in the formation of the Economics Department with the MHRD panel of experts and faculty members
 - Ideated Economics Alumni Network program to facilitate internship & job opportunities for students
 - Organized group discussion, quizzes, seminars and debates related on prominent economic issues
- Aug 2016 - **Students' Academic Reforms Committee, IIT Kanpur**, Senior Executive.
- Apr 2017
- Suggested reforms in the academic curriculum of IIT Kanpur and enhanced interaction between professors & student community for better academic outcomes
- Aug 2016 - **Institute Counselling Service, IIT Kanpur**, Student Guide & Academic Mentor.
- Apr 2017
- Guided a group of 8 students throughout their stay at the campus
 - Mentored freshmen by conducting classes at Institute and Hostel level in a basic Biology course

References

Dr. Rob Gillezeau

Assistant Professor,
Department of Economics,
University of Victoria, BC, Canada
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Webpage: Rob Gillezeau

Muneesh Kapur

Director,
Monetary Policy Department,
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Dr. Mohammad Arshad Rahman

Assistant Professor,
Department of Economic Sciences,
Indian Institute of Technology Kanpur, India
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Webpage: Mohammad Arshad Rahman

Dr. Praveen Kulshreshtha

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Department of Economic Sciences
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