

ARUSHI KAUSHIK

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PROFESSIONAL SUMMARY

- Ph.D Economist specializing in applied econometrics
- Proficient in causal inference techniques and designing experiments for A/B testing
- Programming experience in Python, R, STATA, GIS, SQL
- Ability to apply technical knowledge to multifarious projects and contexts to conduct cost-benefit analysis
- Available to start work immediately

EDUCATION

University of California, San Diego 2016- March, 2022 (Expected)

Ph.D., Economics

Relevant Coursework: Applied Econometrics with focus on Public Economics, Labor Economics and Development Economics and Designing Field Experiments

Delhi School of Economics, University of Delhi, India 2011-2013

Masters, Economics

Relevant Coursework: Econometrics, Impact Evaluation, Game Theory, Law and Economics

Shri Ram College of Commerce (SRCC), University of Delhi, India 2008-2011

B.A. (Hons), Economics

Relevant Coursework: Econometrics, Statistical methods, Linear Algebra, Real Analysis

TECHNICAL STRENGTHS

Programming Skills: Python, R, Stata, Arc-GIS, QGIS, MATLAB, and LaTeX

Econometric Methods: Causal inference and Observational Data techniques like Regression Discontinuity Design, Instrumental variables, Difference-in-difference and Propensity Score matching

Surveys and Experiments

ACADEMIC RESEARCH

Effects of provision of secured Intellectual Property Rights in developing countries: Evidence from TRIPS (Trade-Related Aspects of Intellectual Property Rights) agreement

Estimated the elasticity of Research and Development expenditures by firms with respect to patent law changes

- Curated an original dataset by scrapping > 1 million patents from India's Intellectual Property office website and geocoded the inventor addresses using Google maps API
- Examined the contents of these patents using Natural Language Processing tools, like NLTK
- Worked across a spectrum of software like QGIS, Python, R and Stata for data analysis
- Used concordance between patent classes and industrial classifications to arrive at the point estimate of the elasticity in a fixed-effects model

In Utero Exposure to Industrial Disasters: A Case Study of the Bhopal Gas Tragedy, with Gordon Carlos McCord, Prashant Bharadwaj, Lotus McDougal and Anita Raj

Estimate the long-term damages from an industrial disaster

- Combined Arc-GIS and spatial difference-in-difference methodology to answer a question for which data is not available otherwise

Class-Size Effects in Developing Countries: A Longitudinal Evidence from India, with
Karthik Muralidharan

Assess the cost-effectiveness of reducing class size, using tenured teachers, on student learning

- Applied Instrumental Variable technique on data collected as part of field experiment to perform cost-benefit analysis of an important expenditure item in public accounts, i.e., salary of tenured teachers

INTERNSHIP EXPERIENCE

Summer Intern, Reserve Bank of India 2012

New Delhi, India

- Digitized Central Bank data on Frauds; created and presented visualizations to analyze major patterns concerning the perpetrators of such frauds and their modus operandi to the senior bank officials of the Department of Banking Supervision

INSTRUCTOR EXPERIENCE

Associate Instructor for Data Analysis for Social Sciences 2018-2020

UC San Diego

- Taught coding skills in R, STATA and MS Excel to a lower divisional class of Data Science and advised student projects

Teaching Assistant for GIS & Spatial Data Analysis; Public Policy Capstone 2019-2021

UC San Diego

- Supervised student projects that used spatial and other quantitative data analysis techniques, including assistance with coding in R, STATA and QGIS/ArcGIS

POLICY RESEARCH

A unique, informal banking system of rickshaw drivers in cities 2012

Researcher, Krishna Raj Fellowship, Center for Development Economics, New Delhi, India

- Conducted a field survey to study the remittance behavior among migrant rickshaw pullers in New Delhi and published a policy blog based on the findings in Ideas for India