SHREYA MATHUR

265 College Street, New Haven, CT 06510

(+1) 475-243-4615 ⋄ shreya.mathur@outlook.com

EDUCATION

Yale University	*January - May 2020*
Real Analysis (Measure Theory)	A-
Harvard Extension School	*September - December 2019*
Linear Algebra and Real Analysis I	A-
London School of Economics and Politial Science (LSE)	*September 2017 - July 2019*
MSc Economics (2 Year Programme)	Merit
Erasmus+ Exchange Scholar at Sciences Po, Paris	*August 2016 - June 2017*
St. Xavier's College - Autonomous, Mumbai	*June 2013 - June 2016*
Bachelor of Arts in Economics	Overall GPA: 3.55/4

AWARDS AND HONOURS

· K.C. Mahindra Scholarship for Post-Graduate Studies Abroad (2017) of approx. 5000 GBP to support further studies at the LSE
· Erasmus+ Scholarship (2016) of approx. 7700 GBP to undertake a graduate-level academic exchange at Sciences Po, Paris
· Golden Jubilee Scholarship (2015) for excellence in academics and extracurricular activities given to 1/700 graduating class students at St. Xavier's College - Autonomous, Mumbai

TECHNICAL SKILLS

Stata	*(Advanced Proficiency)*: regression analysis, fuzzy string matching, high-frequency checks, randomisation and sampling, data cleaning and visualisation, crosswalks, ado-files for regression specifications and custom tables, heat maps
R	*(Advanced Proficiency)*: data cleaning and visualisation, regression analysis, web scraping, machine learning (KNN nearest neighbor, decision trees, black box methods, k-means clustering, evaluating model performance), shiny
Python	*(Advanced Proficiency)*: data analysis with Pandas, data visualisation with matplotlib, scraping with beautifulsoup, API integration, machine learning with sckikit-learn (classification, regression and regularisation, logistic regression, building data pipelines)
SQL	*(Fair Proficiency)*: joining data, nested and correlated queries, window functions, data cleaning and validation, string functions, full-text search, OLAP extensions, creating Entity Relationship Diagrams, calculating KPIs, generating reports
MATLAB	*(Fair Proficiency)*: data visualisation, optimisation, generating random numbers
Others	LaTeX, QGIS, Tableau, SurveyCTO, Qualtrics, Vensim, Microsoft Office, Checkbox, SurveyMonkey, Mendeley

RESEARCH ASSISTANT POSITIONS

Professor Kei-Mu Yi, University of Houston	November 2020 - Present

· Create Matlab programs for metrics on global value chains and neoclassical growth model, Eaton-Kortum model and Melitz model
· Carry out independent study project on trade and growth from a model and calibration perspective

Professor Rohini Pande, Yale University   June 2019 - November 2020

· Conducting preliminary analysis for a paper on knowledge and health-related gains from information campaigns; wrote ado files for running regressions, creating publication-quality custom tables and calculating specific outcome variables (e.g. indices) for analysis
· Prepared drafts of pre-analysis plans for two RCTs on women's phone use and its social, economic and health impacts (see here and here) and preliminary analysis reports for government partners
· Coding high-frequency checks and cleaning data for 6 surveys across 2 projects with samples of upto 23,875 and 40,000 respondents respectively and presenting weekly intervention monitoring and analysis reports to Prinicipal Investigators
· Scraping government datasets using Python and merging administrative and survey data for analysis

Professor Kaivan Munshi, University of Cambridge   June 2018 - June 2019

· Cleaned dataset of 140,000+ villages to group small habitations with the parent villages and impute missing GPS coordinates
· Boosted match rate from 30% to 60-70% of code intended to identify locations of 16,000+ historical villages in South India from 140,000+ current villages using GPS coordinates and fuzzy string matching
· Researched gender-disaggregated education indices to generate plots concerning female labour force participation, education and GDP per capita

Dr Swati Dhingra, Centre for Economic Performance, LSE   June 2018 - January 2019

· Ran various regression specifications studying the effect of price changes on gains from trade to small farmers in Kenya
· Prepared statistical summaries (tables and graphs) at the household, crop and field level for the same paper

INTERNSHIPS

Public Governance Directorate, OECD, Paris   May - August 2017

· Cleaned qualitative data from 35+ survey responses of OECD countries regarding gender equality in the Parliament and Judiciary

Permanent Delegation of India to UNESCO, Paris   September 2016 - February 2017

· Assisted drafting of India's interventions to the education, culture and climate change agenda at the 200th UNESCO Executive Board

Ashoka Innovators for the Public, Bengaluru, India   June - July 2016

· Expanded Ashoka's Changemaker Schools network across India, Nepal and Bangladesh by screening and assessing around 57 schools

mPower Social Enterprises, Dhaka, Bangladesh   May 2015 - June 2015

· Identified processes impairing the 2500+ sized patient flow for a rural telemedicine service, Jeeon, by restructuring the project design and analysing customer data on PostgreSQL

OTHER RELEVANT INFORMATION

Citizenship	Indian (currently in the US on a J-1 visa)
Coursework	Measure Theory (Yale MATH 305), Real Analysis, Multivariate Calculus, Linear Algebra, Probability & Statistics, Applied Econometrics
Languages	English, French, Hindi