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SAHIL R. ADANE

EDUCATION

M.A. in Public Policy with a Certificate in Research Methods, Sept 2022–Dec 2023
Harris School of Public Policy, University of Chicago G.P.A. 3.93/4.0

B.Tech. in Engineering Physics, July 2016–June 2020
Indian Institute of Technology (IIT) Bombay, India G.P.A. 8.49/10 \approx 3.52/4.0

RESEARCH EXPERIENCE

Profs. Elliott Ash, Suresh Naidu, and Lena Song, Feb 2024–ongoing
ETH Zurich, Columbia University, UIUC

- Improved and deployed scripts to comment on YouTube videos meeting a search criteria
- Analyzed the text-content in comments from a YouTube field experiment in an event-study
- Helped design, program, and analyze a survey experiment conducted on the platform Prolific
- Annotated freeform survey responses using OpenAI, and implemented other NLP measures
- Processed and filtered large Reddit data files using ETH's computing cluster

Prof. Christopher Blattman, April–Dec 2023
Harris School of Public Policy, University of Chicago

- Developed an incomplete information bargaining game that includes an ex-ante choice, which directly shapes the bargaining environment
- Implemented randomized-inference-based std. errors, and reproduced all the regression tables
- Helped prepare replication packages for previously completed projects

Prof. Eduardo Montero, June–Sept 2023
Harris School of Public Policy, University of Chicago

- Created a formal model to explain the evolution of private versus communal property rights in response to the fallowing requirement for soil regeneration after cultivation
- Iterated through various payoff functions to identify key mathematical properties for predictions, keeping the model tractable

RELEVANT COURSES

PhD level: Political Economy of Development, Topics in Information Economics, Formal Models of Domestic Politics, Price Theory II, Applied Econometrics I-III, Applied Microeconomics I-II

Undergraduate level: Analysis in Rn-I, Linear Algebra, Calculus, Differential Equations, Numerical Analysis, Programming with C++

SCHOLASTIC ACHIEVEMENTS IN INDIA

Secured an All India Rank of **755** out of **0.2 million** candidates in JEE Advanced May 2016
Awarded the National Talent Search (NTSE) Scholarship to the top 0.2% students May 2012

TECHNICAL SKILLS

Coding languages: Python, R, Stata

Utilities: Version control with Git

POSITIONS OF RESPONSIBILITY

Academic Mentor, Physics Dept

Mar 2019–Feb 2020

Selected among 14 mentors based on interviews, peer reviews, and performance

- Mentored 6 sophomores to aid their transition into the Physics department
- Conducted course reviews and AMAs with professors for better student-professor interaction

Teaching Assistant

• R Coding Camp, Harris School, University of Chicago

Sept 2023

• Economics for Social Welfare, Crown School, University of Chicago

Spring 2023

• Quantum Physics and Applications, IIT Bombay

May 2018

OTHER EXPERIENCE

Systems Engineer, Sedemac Mechatronics Pvt. Ltd., India,

Aug 2020–May 2022

Developed control technologies for electronic fuel injection for internal combustion engines

Optimal calibration process for a chosen air-estimation model

July–Oct 2021

- Collected data at diverse operating conditions to fit an air-estimation model for simulations
- Performed regression analysis for different models followed by diagnostics for OLS estimation
- Designed future experiments to reduce calibration costs while maintaining prediction accuracy

Proof-of-concept of stock electronic fuel injection strategies

Dec 2020–June 2021

- Studied the physical conditions in corner-cases and benchmarked a competitor's control unit
- Enhanced the model by incorporating insights to demonstrate a working prototype

Research Intern, University of Luxembourg,

May–July 2019

Supervisor: Prof. Ludger Wirtz, Dept. of Physics, University of Luxembourg

Understanding Raman spectra of Cu_2GeS_3 using ZnS for photovoltaic applications

- Developed a force model using first principles by testing different interatomic potentials
- Simulated changes in Raman spectrum of Cu_2GeS_3 by studying intermediate lattice structures

EXTRA-CURRICULARS

Attended GROWTH Winter School to learn astronomical data-analysis techniques

2018

Created a video that won 3rd place in Freshiezza Music Video Competition

2016

Completed a year of training in Volleyball by National Sports Organization

2016–2017

Played for School Cricket Team that won Under-14 Giles Shield, Mumbai

2014