

ANOM ASHOK DULE

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EDUCATION

University of Maryland, College Park
Master of Science in Applied Economics (STEM)

College Park, MD, USA
Aug 2021 – May 2023

Dr. Babasaheb Ambedkar Technological University
Bachelor of Technology in Chemical Engineering

Lonere, MH, India
Jul 2014 – May 2018

SKILLS & COURSES

Computer: STATA, R, Python, QGIS, EViews, SQL, Tableau, Microsoft Excel, Github, L^AT_EX/Overleaf, C++

Econometric skills: Logit/Probit, Propensity score matching, Instrumental variable, Panel data methods, Diff-in-Diff, Synthetic control, Regression discontinuity, Time series

Machine learning/ algorithms: k nearest neighbor, k-means clustering, Lasso, Ridge, Random forest

Additional skills: Geo-spatial data analysis, Extraction NetCDF format, Methane inventories knowledge, Docker, Bash scripting, API routing services, High performance computing (HPC) cluster

Courses: Microeconomics, Macroeconomics, Econometrics, Financial Economics, Game Theory, Development Economics, Environmental Economics, Program Analysis and Evaluation, Engineering Mathematics

MITx Online Courses: Real Analysis (OpenCourseWare), Micromasters in Statistics and Data Science (Probability, Statistics, Data Analysis), Micromasters in Data Economics Development Policy (Microeconomics)

RESEARCH WORK

• Independent Research (Working Paper)

- **A. Dule**, "The Effect of Power Outages on Crime"

(Abstract: *This study investigates the impact of power outages on crime in Maharashtra, India. Using novel daily data at the feeder and substation levels, matched with police station-level crime records, the analysis leverages exogenous variation from unplanned outages to identify causal effects. The study focuses on police jurisdictions level analysis corresponding to the substations under their coverage. The findings contribute to the literature on electricity reliability and public safety by uncovering a new mechanism linking power disruptions to criminal activity.* [Link to paper](#))

• Under Review

- J. Lou, **A. Dule**, X. Shen, N. Hultman, "Advancing Equity in EV Infrastructure: Assessing Charging Accessibility Under the National Electric Vehicle Infrastructure (NEVI) Program" (***Revise and Resubmit, Journal- Energy Research and Social Sciences***)

• Publications (Journal Article/ Policy Brief)

- J. Behrendt, S. Smith, S. Yu, S. Chen, H. Zhang¹, M. Zhu, J. Williams, X. Cheng, **A. Dule**, W. Li, R. Cui, N. Hultman, "United States and China Anthropogenic Methane Emissions: A Review of Uncertainties and Collaborative Opportunities". ***Earth's Future***, 13, e2024EF005298.

- J. Behrendt, X. Cheng, S. Chen, **A. Dule**, H. Zhang, S.J. Smith, M. Zhu, R. Cui, C. Mei, L. Chen, M. Li, S. Fu, N. Hultman “Understanding Coal Mine Methane Sources and Mitigation Opportunities in Shanxi Province.” *Center for Global Sustainability, University of Maryland*. 15pp.

- **Conference Paper Presentation**

- **A.Dule**, “What is the effect of refugee population on the asylum country’s GDP per capita?”, *Western Economic Association International, Melbourne, 2023*

- **Database Creation**

- Zhu, M., Hu, G., Cheng, X., Sahu, S., Li, Y., Vaddeboina, S., Sharma, A., Kalra, I., Thakkar, **Dule, A.**, Lu, Z., Singh, H. & Cui, R. (2025). *Global Methane Abatement Solutions Tracker (G-MAST)*. *Center for Global Sustainability, University of Maryland*.

EXPERIENCE

Center for Global Sustainability (CGS), University of Maryland

College Park, MD

Research Assistant- Prof. J. Lou, Prof. M. Zhu, J. Behrendt

Feb 2023 – Present

- Spearheaded independently research study on "Electric Vehicles (EVs) Adoption in USA" and "Impact Evaluation of EVs Infrastructure Policy in US", also collaborated with diverse teams on multiple projects related to - "Methane Emissions Mitigation in China and their inventories".
- Investigated EVs adoption based on demographics in the US at the household level by designing a linear probability and logit model. Performed impact evaluation of EVs policy using econometrics- pre-post analysis and difference-in-differences (DID).
- Utilized ML algorithms and established local API server to compute travel metrics for 0.5 billion of source-destinations pairs to identify EV stations accessibility at household level.
- Identified, reported and visualised high methane emissions sites at global and local level by performing raster data analysis for grid-level data inventories (eg. EDGAR/ PKUCH4-v2) in R/QGIS.

World Bank (Office of the Chief Economist, Africa)

Washington D.C.

Research Analyst (Consultant) to Dr. Aparajita Goyal (Lead Economist)

Jun 2023 – Jun 2024

- Assisted in research study evaluating groundwater potential in Sub-Saharan Africa, contributed in data collection and literature part. Independently reviewed over 300 studies and selected 40 key pieces of literature.
- Prepared policy briefs on the various topics- bread basket in Sub-Saharan Africa, pre-post era of green revolution in India and Brazil, potential to ground water irrigation technologies in Africa.
- Built and maintained database, converted raw data extracted from disparate online sources into easily accessible 200+ variables user-friendly database by leveraging STATA and R to clean the data.
- Demonstrated expertise in critically reviewing unpublished research papers, suggested improvements in the descriptive and analysis part, revised econometric methodologies.

NDP Analytics (Economic Consultancy)

Washington D.C.

Analyst Intern to the Managing Director and Principal

Jun 2022 – Aug 2022

- Assisted the Principal and Managing Director on building a report, “The Economic and Social Benefits of Physician-Led Hospitals” by forming large databases of information on hospitals’ locations, patients’ demography, and other related attributes that explained the benefits derived out of different hospitals.
- Collected data from Bureau of Labor Statistics, and Census Bureau to produce infographics, using Flourish,

that captured the essence of various economic parameters. Utilised BEA multipliers (RIMS II) to compute the economic impact.

- Investigated specific claims about finances from an article on ‘USPS and inflation’, and compared them with the USPS’ official financial information to execute a validation check.

San Diego County Taxpayers Association

San Diego, CA

Policy Analyst Intern to the CEO

Jun 2022 – Aug 2022

- Executed a wide-ranging literature review on the factors affecting education outcomes in the county of San Diego- curated a database of journal articles ranging from past two decades to understand the patterns and different research methods.
- Participated in discussions with other interns to collaborate on different tasks including summarizing newspaper articles to identify county’s watchdog/fleece, supporting the sales work by collecting chartered accountants’ information for the county.

RESEARCH SEMINARS ATTENDED

- Poverty & Applied Micro Seminar at World Bank| Blackouts: The Role of India’s Wholesale Electricity Market, Akshaya Jha (Carnegie Melon and NBER) (2025)
- Center for Global Sustainability Research Seminar| Perceived Adaptation Potential and Willingness to Pay for Adaptation: Evidence from Six European Countries, Anna Alberini (Professor, AREC, University of Maryland)

AWARDS

- Roberta Ma Scholarship awardee, Roberta Ma Fund at the University of Maryland (2022)
- National Association for Business Economics (NABE) Scholarship, Washington DC (2022)