

# Parth Chawla

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Department of Agricultural and Resource Economics  
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## ACADEMIC EXPERIENCE

- 2021 – Present Ph.D. in Agricultural & Resource Economics, University of California, Davis  
2018 – 2019 M.Sc. in Economics, Trinity College Dublin  
2014 – 2017 B.Sc. in Physics, Royal Holloway, University of London

## PROFESSIONAL EXPERIENCE

- 2023 – Present Consultant, The World Bank, Washington, D.C.  
- East Asia and Pacific Practice; Poverty and Equity Global Practice.  
- Working on a report on firm productivity in Southeast Asia, analyzing the impact of skills, tradability, and non-tariff measures (NTMs) on total factor productivity (TFP). This analysis utilizes labor force surveys, input-output tables, trade data, and firm-level production function estimation (Akerberg, Caves, and Frazer, 2015).  
- Past projects: Poverty projections in Afghanistan using machine learning models (paper below); Economic activity analysis in Afghanistan using nightlights data.
- 2023 – Present Graduate Student Researcher for Prof. J. Edward Taylor, UC Davis  
- Projects: Local economy-wide impacts of protected areas in Africa (World Bank project); Local economy-wide impacts of cash transfers to refugees (UNHCR project)
- 2022 Research Intern, United Nations Development Programme, New York, NY  
- Contributed to the 2021/22 Human Development Report.  
- Assisted in the data analysis and presentation of key human development statistics.
- 2022 RA to Prof. Yusuf Neggers, Ford School of Public Policy, Univ. of Michigan  
- Conducted empirical analysis for a paper using Stata.  
- Scraped millions of rows of publicly available Indian administrative data using Python, utilizing AWS for automation and a MySQL database for storage.
- 2019 – 2021 Research Associate, Evidence for Policy Design, Harvard Kennedy School  
- Executed 2 large-scale randomized control trials (RCTs) in 3 Indian states with US-based economists, leading a field team of 15 people.  
- Collaborated with government officials at the state and local levels to align objectives.  
- Developed Python data pipelines to scrape and process over 50 million rows of public data from government websites and APIs.  
- Produced data visualizations and summary reports, and performed econometric analyses.  
- Designed survey questionnaires for over 1000 government officials.
- 2018 Economics Intern, Koan Advisory, Delhi, India
- 2018 Teaching Fellow, Ashoka University, Sonapat, India

## WORKING PAPERS

Barriga-Cabanillas, O., **Chawla, P.**, Redaelli, S. and Yoshida, N. 2023. “Updating Poverty in Afghanistan Using the SWIFT-Plus Methodology”. Policy Research Working Papers, 10616. World Bank, Washington, D.C.

Summary: This paper uses survey-to-survey imputation and a SWIFT-plus methodology to estimate poverty in Afghanistan following the Taliban’s return to power in August 2021. A machine learning model is trained on the 2019/20 Expenditure and Labor Force Survey and applied to the latest Afghanistan Welfare Monitoring Survey. Results show that 48.3 percent of the population was poor as of April–June 2023, a relative decline of 4 percentage points compared to the same period in 2020, with rural poverty declining while urban poverty remained stagnant.

## SELECTED RESEARCH IN PROGRESS

“A Machine Learning Approach to Predicting Mexico-to-US Migration Using Panel Data”, with J. Edward Taylor

“Supply Chain Networks, Risk Sharing, and Resilience to Shocks Among Small Firms in Tanzania”, with Jess Rudder and Daniel Putnam

## RESEARCH GRANTS

2024                    Giannini Foundation Mini-Grant, \$20,000 (with J. Edward Taylor)

2024                    Henry A. Jastro Graduate Research Award, \$3,000

## FELLOWSHIPS AND AWARDS

2024                    Giannini Dissertation Fellowship (\$21,500)

2024                    UC Davis ARE Summer Research Fellowship

2021 – 2024          UC Davis Nonresident Supplemental Tuition Fellowship

2021 – 2022          UC Davis Provost’s Fellowship (\$25,000 stipend)

2017                    Royal Holloway Passport Award

2014                    Royal Holloway International Excellence Scholarship (tuition waiver)

## TEACHING EXPERIENCE

2024                    Main Instructor, Economic Development, UC Davis

2023                    TA, Econometric Methods, UC Davis

2023                    TA, Agricultural Labor, UC Davis

2022, 2024          TA, Intermediate Microeconomics, UC Davis

2018, 2019          TA, Math & Statistics for Economics, Trinity College Dublin

## SERVICE

Referee: Journal of Agriculture and Food Research

Other: UC Davis ARE DEI Committee, Grad School Application Mentor

## **BLOG ARTICLES**

“Government Intervention in India and Taiwan Affects Global Rice Markets” (with Tzu-Hui Chen), Ag Data News (2022)

## **SKILLS AND LANGUAGES**

**Programming:** Python, R, Stata, SQL/MySQL

**Tools:** AWS EC2/RDS, Git, Unix, Markdown, Shiny, SurveyCTO

**Languages:** English (Native/Bilingual), Hindi (Native/Bilingual), Korean (Beginner)

**Statistical Methods:** Machine Learning, Econometrics, Regression Analysis, Causal Inference