

# Parth Chawla

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## RESEARCH AREAS

Development Economics, Firm Productivity, Trade, Migration

## ACADEMIC EXPERIENCE

2021 – 2026     Ph.D. in Agricultural and 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

## DISSERTATION COMMITTEE

Prof. Travis Lybbert (Chair)	Prof. J. Edward Taylor	Prof. Arman Rezaee
Department of Agricultural and Resource Economics	Department of Agricultural and Resource Economics	Department of Economics
University of California, Davis	University of California, Davis	University of California, Davis
tlybbert@ucdavis.edu	jetaylor@ucdavis.edu	abrezaee@ucdavis.edu

## WORKING PAPERS

**Chawla, P.** 2025. “Can Human Capital Improve Firm Resilience in Financial Crises? Evidence from the 1997 Indonesian Crisis.” Working paper. Available at SSRN. (Job Market Paper)

Summary: Do returns to human capital rise during crises? This paper examines whether Indonesia’s INPRES school construction program in the 1970s improved firm resilience during the 1997 Asian Financial Crisis. I combine a difference-in-differences strategy with a shift-share instrument, exploiting variation in district INPRES intensity and the national share of treated working-age cohorts. I find that each additional school per 1,000 children raised post-crisis real labor productivity and output by 2.8 and 3.5 percent, respectively. These effects are not explained by pre-crisis differences in basic educational attainment. Instead, INPRES contributed to a pre-crisis shift of workers toward skill-intensive production work. Using reduced-form evidence and a simple model, I show that the resulting local abundance of skilled production workers helped keep their wages lower in high-INPRES districts, enabling plants to retain more skilled workers during the crisis.

**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. (Accepted at *Journal of Development Studies*)

Summary: This paper uses a machine learning-based survey-to-survey imputation method (SWIFT-plus) to estimate poverty in Afghanistan following the Taliban’s return to power in August 2021. A model trained on the 2019/20 Expenditure and Labor Force Survey is used to predict household consumption in the 2023 Afghanistan Welfare Monitoring Survey, a phone survey drawn from the same sampling frame. The results show that 48.3 percent of the population was poor as of April-June 2023, a 4 percentage point decline since the same months in 2020. This decline was driven by falling rural poverty, while urban poverty remained unchanged.

“Predicting Mexico-to-US Migration with Machine Learning for Counterfactual Analysis,” with J. Edward Taylor

“Firm Networks, Risk Sharing and Resilience to Shocks Among Small Firms in Tanzania,” with Daniel Putman and Jess Rudder

“Is Technology Inappropriate for Developing East Asia?,” with Francesca de Nicola, Aaditya Mattoo and Jonathan Timmis (World Bank East Asia Pacific)

“Local Economic Impacts of Cash Transfers to Refugees and Asylum Seekers in Mexico, Mauritania, and Moldova,” with Justin Kagin and J. Edward Taylor

## 2023 – Present Consultant, The World Bank, Washington, D.C.

2023 – 2024 Graduate Student Researcher for Prof. J. Edward Taylor, UC Davis

2022 Research Intern, United Nations Development Programme, New York, NY

2022 RA to Prof. Yusuf Neggers, Ford School of Public Policy, Univ. of Michigan

2019 – 2021     Research Associate, Evidence for Policy Design, Harvard Kennedy School  
(based in Delhi, India)

## 2025 UC Davis ARE Grad Travel Award

2024	Giannini Dissertation Fellowship (\$21,500 stipend)
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2024 Giannini Foundation Mini-Grant, \$20,000 (with J. Edward Taylor)

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

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)
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2017                Royal Holloway Passport Award  
2014                Royal Holloway International Excellence Scholarship (tuition waiver)

## **TEACHING EXPERIENCE**

Main Instructor: Economic Development (UC Davis, 2024)

Teaching Assistant: Operations Research & Management Science, Economic Development, Econometric Methods, Agricultural Labor, Intermediate Microeconomics, Math & Statistics for Economics (Average evaluation score of 4/5 from 119 responses)

Teaching Fellow: Math Foundations Course (Ashoka University, 2018)

## **PRESENTATIONS**

AAEA & WAEA Joint Annual Meeting 2025 (Best Poster Award Recipient), Japan Economic Policy Association 2025, World Bank-LSMS Conference “Better Data for Better Jobs and Lives” (2025), UC Davis Development Workshop, Giannini Student Research Conference

## **SKILLS AND METHODS**

**Programming:** Python (pandas, scikit-learn), R, Stata, SQL/MySQL

**Tools and Platforms:** Git, Unix, Markdown, R Shiny, AWS (EC2, RDS), SurveyCTO

**Statistical Methods:** Machine Learning (Linear/Logistic Regression, Random Forests, Gradient Boosting, LightGBM), Causal Inference (DiD, RDD, IV, PSM, SC), Panel Data Econometrics

## **BLOG ARTICLES**

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

## **SERVICE**

Referee: Journal of Agriculture and Food Research

Other: Grad School Application Mentor

## **LANGUAGES**

English (Native/Bilingual), Hindi (Native/Bilingual), Korean (Beginner)