Radhika Goyal

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PROFESSIONAL SUMMARY

- Ph.D Economist specializing in applied econometrics and environmental topics
- Proficient in causal inference techniques and designing experiments for A/B testing
- Programming experience in Python, R, STATA, GIS, SQL
- Available to start work in spring 2023

EDUCATION

University of California, San Diego   *2018 - March 2023 (Expected)*
Ph.D. in Economics
Relevant Coursework: Applied Econometrics with focus on Public Finance, Environment, and Macroeconomics
Fellowships and Honors: Regents Fellowship (2018-2023), Harvard Weiss Grant for Development Economics 2020

University of Oxford, UK
MSc in Economics for Development, Distinction   *2013*
BA (Hons) in Economics and Management, First Class   *2012*
Relevant Coursework: Econometrics, Public Economics, Finance, Strategy, Mathematical Methods
Fellowships and Honors: Jesus College Open Scholarship, Webb-Medley Prize for Best Overall Performance

TECHNICAL STRENGTHS

Programming Skills: MATLAB, Python, R, Stata, Arc-GIS, QGIS, SQL, Octave, Bloomberg, Haver Analytics
Econometric Methods: Causal inference and Observational Data techniques like Linear Regression, Regression Discontinuity Design, Synthetic Controls, Fixed Effects, Instrumental variables, Difference-in-difference, and Propensity Score matching
Machine Learning Methods: Ridge Regression, Lasso Regression, Support Vector Machines, Neural Networks, Random Forests, Boosting
Surveys and Experiments

WORK EXPERIENCE

The World Bank, Washington DC   *2017 - 2022*
Disaster Risk Management Consultant, Climate Change Research and Advisory Unit
· Prepared models disciplined by household and agriculture datasets to inform climate policies.
· Awarded World Bank Certificate of Achievement for contribution to the carbon pricing discussions.

Center for Effective Global Action, University of California Berkeley, CA   *2019 - 2021*
Data Analyst
· Collated and harmonized datasets to advance opportunities for meta-analysis, and help encourage data publication and visualization.

Harvard Kennedy School, Harvard University, MA   *2020 - 2021*
Research Fellow/Research Assistant
· Curated a cross-country dataset on cost of tax collection and built empirically founded macroeconomic models.

The Foreign Policy Group, Washington DC   *2017*
Head of Data and Analytics, Foreign Policy Analytics
· Managed a range of projects for clients from the private, public, and non-profit sectors to guide investment decisions, inform policy analysis, and enhance market trends forecasts.

Department of Economics, University of Chicago   *2016*
Research Scientist, Energy Policy Institute of Chicago
· Assisted on a project to empirically derive climate damages to social and economic outcomes.

The Brookings Institution, Washington DC *2015 - 2016*
Research Analyst, Global Economy and Development
· Led project development, planning, grant application, and research design for projects for the Africa division.
· Responsible for regular policy briefings and press releases.

International Growth Centre (IGC), UK and Rwanda *2013 - 2015*
Economist, Department of International Development, University of Oxford
· Coordinated the IGC research portfolio and supported Tanzania and Ethiopia country teams.
· Collaborated with multiple stakeholders and reported to donors on research strategy and impact.

Country Economist, Rwanda
· Managed data collection and analysis of multiple research projects on public finance and sustainable urbanisation.
· Formulated and implemented the country strategy by engaging with policymakers on key policy issues.

Other relevant internships/part-time work experience:
· Oxford Policy Management, Oxford, UK *2013*
· PricewaterhouseCoopers LLP, India *2011*
· J. P. Morgan Chase, London, UK *2010*

ACADEMIC RESEARCH

Does Distance Matter: Building State Capacity by Reducing Remoteness
Examined the impact of reducing distance to local government headquarters on provision of basic public amenities

– Compiled an original high-resolution data for 10000 villages spanning over 55 years
– Examined the contents of village records using Natural Language Processing tools, like NLTK
– Worked across a spectrum of software like QGIS, Python, R and Stata for data analysis

Green Mobility: Roads vs Railways in Sub-Saharan Africa
Investigated the impact of roads vs the railways on the environment

Evidence for Surplus Labor in the Traditional Sector
Exploited trade liberalization policies to examine labor market effects in the traditional agriculture sector

Role of Public Policies in Mitigating Environmental Damages (with Sam Asher, Paul Novosad, and Teevrat Garg)

Quantifying the Importance of Tax Collection Capacity for Development (with Anders Jensen and David Lagakos)

Accountability, State Capacity, and Public Goods (with Samuel Bazzi, Filipe Campante, Quoc-Anh Do, Matthew Gudgeon, and Karthik Muralidharan)

Quantifying the Effects of Relaxing Credit Constraints on Urban-Rural Gaps (with Justin Abraham and Minki Kim)

Selected Published Work
– The Road to Recovery: The Role of Poverty in the Exposure, Vulnerability and Resilience to Floods in Accra, *Economics of Disasters and Climate Change*, Springer, vol. 4(1), pages 171-193, April 2020 (with Erman et al)
– State and Trends of Carbon Pricing 2018, *World Bank; Ecofys*, Washington, DC: World Bank.
– Agricultural Transformation in Tanzania: Linking Rural to Urban through Domestic Value Chains, in *Tanzania: The Path to Prosperity*, ed. Christopher S. Adam, Paul Collier, and Benno Ndulu (Oxford University Press, 2017). (with Douglas Gollin)
– Social protection for all ages? Impacts of Ethiopia's Productive Safety Net Program on child nutrition, *Social Science Medicine*. 2016 Jun. (with Catherine Porter)

OTHER INFORMATION

Citizenship: Indian
Languages: English (fluent), Hindi and Punjabi (native), French (research proficiency)