

# Radhika Goyal

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## PROFESSIONAL SUMMARY

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- Ph.D Economist specializing in applied econometrics and environmental topics
- Track record of managing delivery of a variety of high-quality outputs
- Experience in policy formulation and public sector consulting
- Proficient in causal inference techniques and designing experiments for A/B testing
- Programming experience in Python, R, STATA, GIS, SQL

## EDUCATION

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### 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

Relevant Coursework: Quantitative Economics, Risk, Financial Flows

Fellowships and Honors: Jesus College Open Scholarship, Webb-Medley Prize for Best Overall Performance

*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

## TECHNICAL STRENGTHS

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**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**

**Programming Skills:** MATLAB, Python, R, Stata, Arc-GIS, QGIS, SQL, Octave, Bloomberg, Haver Analytics

## WORK EXPERIENCE

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### 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 carbon pricing discussions.

### 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 estimate 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:**

- Center for Effective Global Action, University of California Berkeley, CA 2019-2021
- Harvard Kennedy School, Harvard University, MA 2020-2021
- Oxford Policy Management, Oxford, UK 2013
- PricewaterhouseCoopers LLP, India 2011
- J. P. Morgan Chase, London, UK 2010

## **ACADEMIC RESEARCH**

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### **Does Distance Matter: Building State Capacity by Reducing Remoteness**

*Estimated the impact of reducing distance to local government administration 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: Environmental Impacts of Roads vs Railways in Sub-Saharan Africa**

*Investigated the impact of roads vs the railways on industrial development and 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**

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