

SKAND GOEL

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EDUCATION

New York University, New York, NY.

Ph.D., Econometrics and Quantitative Economics

April 2021 (expected)

Research Areas: Econometrics, Applied Microeconomics, Environmental and Development Economics.

Delhi School of Economics, Delhi University, New Delhi.

Masters, Economics.

2011 – 2013

Delhi University, St. Stephen's College, New Delhi.

B.A. (Hons.), Economics.

2008 - 2011

ACADEMIC PAPERS

Cattle Ranching and Deforestation in the Brazilian Amazon (2020)

Estimate and predict the response of future deforestation in the Brazilian Amazon to changes in global commodity prices.

- Assemble county-level panel dataset of deforestation rates (based on satellite GIS) and returns to cattle.
- Structurally estimate a dynamic-optimization based economic model of land-use and cattle ranching, and simulate it to quantify short-run and long-run price elasticities of land-cover change.

Farmers' responses to groundwater depletion in India (2019, in progress)

Estimate and simulate the impact of falling groundwater table on smallholder investment in groundwater extraction.

- Assemble village-level panel dataset on small-scale irrigation and measures of agricultural returns and groundwater levels.
- Structurally estimate a dynamic equilibrium model of irrigation investment and groundwater levels.

Public versus Private Provisioning: Role of Education and Political Participation (2014), with Mausumi Das, Adway De and Tridip Ray.

Theoretical model analyzing the links between mass education and government provisioning of private goods and services in democracies.

- Model trade-offs faced by educated classes in political participation and derive implications for equilibrium government action.

PROFESSIONAL RESEARCH EXPERIENCE

Research Assistant, Prof. Paul Scott (NYU Stern)

Summer 2018

- Studied potential land-use impacts of energy policies encouraging burning wood-residue for fuel.
- Assembled data and estimated panel data/time series models to quantify reduced-form land use elasticities.

Research Assistant, Prof. Hunt Allcott (NYU)

2016-2017

- Studied car buyers' attention to fuel economy to evaluate EPA's rationale for new fuel-economy standards.
- Cleaned and analyzed data from two information provision experiments.
- Liaison between research team at NYU/MIT and data processing team in Bangalore, India.

Research Assistant, Prof. Tridip Ray (Indian Statistical Institute, New Delhi)

2013-2014

PROFESSIONAL TEACHING EXPERIENCE

Instructor, Intermediate Microeconomics (NYU)

Summer 2020

- Designed and taught a semester-equivalent course to a class of 45 undergraduate students.

Teaching Assistant, several courses at Ph.D., MBA and undergraduate levels

2015-2019

- Conducted R programming workshops, recitation lectures, and consultation sessions for *Ph.D. Econometrics* (NYU Stern, Fall 2018) and *Undergraduate Econometrics* and *Undergraduate Statistics* (for three terms each from 2015-2019).
- Taught macroeconomics and supervised student papers for the MBA course *Challenges in the Global Economy* (NYU Stern, Fall 2016) taught by eminent economists Prof. Michael Spence, Prof. Peter Henry, and Prof. David Brady.

OTHER SKILLS

- Working knowledge of machine learning methods and their applications to Causal Inference/Econometrics.
- Extensive experience with numerical methods, including dynamic optimization and DSGE macroeconomic models.
- **Programming languages:** Extensive experience with Python, R, STATA, and GIS tools. Limited experience with Matlab and Julia.