

SKAND GOEL

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PROFESSIONAL SUMMARY

- Skilled economic researcher with demonstrated experience in econometrics & quantitative models.
- R, Python, STATA, SQL, GIS libraries, and HPC cluster (Unix) for scientific computation & data analysis.
- Proficiency in time-series/panel regressions, causal inference & nonlinear model calibration/estimation.
- Working knowledge of machine learning algorithms and DSGE models.

EDUCATION

New York University, New York, NY.

May 2021 (expected)

Ph.D., Econometrics and Quantitative Economics

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

Delhi School of Economics, Delhi University, New Delhi.

2011 – 2013

Masters, Economics.

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

2008 - 2011

B.A. (Hons.), Economics.

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.

- Postulate a stochastic dynamic-optimization economic model of cattle ranching and deforestation and use it to simulate long-run deforestation rates under alternative demand scenarios.
- Curate novel data on satellite-based deforestation rates and GIS-based returns to beef for model calibration.

Farmers' responses to groundwater depletion in India (2019)

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

- Propose a dynamic equilibrium model of irrigation investment and groundwater levels.
- Calibrate model using novel village-level panel dataset on small-scale irrigation and measures of agricultural returns and groundwater table.

Public versus Private Provisioning: Role of Education and Political Participation (2013), 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.

- Theoretically model equilibrium trade-offs faced by the middle-class between civic and private action.

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) 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)

OTHER RESEARCH EXPERIENCE

Research Assistant, Prof. Paul Scott (NYU Stern)

Summer 2018

- Examined 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

- Analyzed data from experiments designed to study car buyers' attention to fuel economy.
- 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