

SKAND GOEL

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PROFESSIONAL SUMMARY

- Economic researcher with demonstrated experience in econometrics & quantitative models.
- R, Python, STATA, SQL, GIS libraries, and HPC cluster (Unix) for scientific computation & data analysis.
- Proficient in time-series/panel regressions, causal inference & nonlinear model calibration/estimation.
- Familiarity with machine learning methods 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

Demand for tropical deforestation in Brazil: Role of cattle ranching dynamics (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 beef prices for calibrating this model.

Farmers' responses to groundwater depletion in India (2019)

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

- Propose a dynamic equilibrium model of irrigation investment and groundwater levels.
- Calibrate this model using a 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 between civic action and private action.
- Co-authored paper with principal investigator during year-long stint at *Indian Statistical Institute, New Delhi*.

PROFESSIONAL TEACHING EXPERIENCE

Instructor, Intermediate Microeconomics (NYU)

2020

- Designed and taught a semester 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*, and Undergraduate *Econometrics*, *Statistics* and *Microeconomics*.
- Taught macroeconomics and advised student research for the MBA course *Challenges in the Global Economy* (NYU Stern)

RESEARCH ASSISTANT EXPERIENCE

NYU Stern, Prof. Paul Scott

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.

NYU, Prof. Hunt Allcott

2016-2017

- Analyzed data from experiments designed to study car buyers' attention to fuel economy.
- Liaised with the research team at NYU/MIT and data processing team in Bangalore, India.