

# SKAND GOEL

31 River Ct, Apt 416,  
Jersey City, NJ 07310

sg3992@nyu.edu

(347)-922-4835

[skandgoel.com](https://www.linkedin.com/in/skand-goel)

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## PROFESSIONAL SUMMARY

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- Research economist with demonstrated experience in econometrics & computational models.
- Programming experience in R, Python, STATA, GIS, SQL, and cluster computing (unix environment).
- Proficient in time-series/panel data analysis, causal inference & nonlinear model calibration/estimation.
- Domain knowledge of climate change, development economics and macroeconomic DSGE models.
- Familiarity with machine learning methods and reinforcement learning.

## EDUCATION

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**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 RESEARCH

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### Impact of changes in long-run beef demand on Brazilian deforestation

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

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

### Farmers' responses to groundwater depletion in India

*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 with novel village-level panel data on irrigation, agricultural returns and water table.

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

*Theoretical model analyzing the links between mass education and government provisioning of private goods 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

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**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

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**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.