# Sumit Goel

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## Education

*PhD in Social Sciences*, California Institute of Technology, 2017-2023.

Advisor: Federico Echenique

Thesis title: Essays in Mechanism Design and Contest Theory

*MS in Quantitative Economics*, Indian Statistical Institute (Delhi), 2015-2017.

Supervisor: Arunava Sen

*BTech in Computer Science*, Delhi Technological University, 2011-2015.

## Research

### Publications

1. Optimal tie-breaking rules (with Amit Goyal),
   *Journal of Mathematical Economics*, Forthcoming.

2. Optimality of the coordinate-wise median mechanism for strategyproof facility location in two dimensions (with Wade Hann-Caruthers),
   Ext. Abs. in *Proceedings of SAGT 2022*,
   *Social Choice and Welfare*, Volume 61, 2023.

### Working papers

1. Prizes and effort in contests with private information,
   Ext. Abs. in *Proceedings of EC 2023*.

2. Stable allocations in discrete economies (with Federico Echenique and SangMok Lee),
   R&R at *Journal of Economic Theory*.

3. Project selection with partially verifiable information (with Wade Hann-Caruthers),
   Ext. Abs. in *Proceedings of WINE 2022*.

## Honors and Awards

Best paper award in Winter School at Delhi School of Economics, 2022.

PIMCO graduate fellowship in Data Science, 2020.

Graduate student fellowship at Caltech, 2017,2020.

Class rank 1 in Master's programme at ISI Delhi, 2017.

Masters student fellowship at ISI Delhi, 2015-2017.

## Conference Presentations

2023 ACM Conference on Economics and Computation (King's College London), Durham Economic Theory Conference (Durham University Business School), Annual conference on Contests: Theory and Evidence (University of Reading).

2022 Annual Conference on Economic Growth and Development (Indian Statistical Institute Delhi), Delhi Winter School (Delhi School of Economics), International Symposium on Algorithmic Game Theory (University of Essex), Asian School in Economic Theory (National University of Singapore), Annual conference on Contests: Theory and Evidence (University of Reading)*, Meeting of the Society for Social Choice and Welfare (El Colegio de México)*, Annual conference of Society for the Advancement of Economic Theory (Australian National University)*.

2019 Delhi Winter School (Delhi School of Economics)

  * Participated virtually

## Teaching

*Teaching Assistant at Caltech*: Econometrics (Ec 122), Introduction to Economics (Ec 11), Introduction to Finance (BEM 103), Game Theory (PS/Ec 172), Theory of Value (Ec 121a), Algorithmic Economics (CS/Ec 149).

*Instructor at Econschool*: Taught Mathematics to undergraduate students in India interested in pursuing higher studies in Economics.

## Other Experience

*Caltech COVID-19 Machine Learning project* (Summer 2020): Under supervision of Prof. Yaser Abu-Mostafa, developed a machine learning-based model to predict the spread of COVID-19 in the US. The predictions are part of The US COVID-19 Forecast Hub dataset published in Scientific Data, Nature.

*Research assistant for Prof. Federico Echenique* (Spring 2019): Surveyed experimental papers that use the convex time budget methodology for estimating time and risk preferences.

*Intern at Royal Bank of Scotland* (Summer 2014): Wrote XSLT code to enhance Excel reports by introducing charts with data tables while ensuring easy integration with existing report generation process.

## Referee

Theoretical Economics, Mathematical Social Sciences