

# Arnav Sood

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Ph.D. Student in Economics, Carnegie Mellon University

## Personal

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Citizenship: US Citizen, Canada PR

## Interests

Behavioral, Learning, Information, Game Theory, Econometrics

## Computational Skills

Julia, Python/Torch, Shell Scripting, Docker

## Employment

Predoc, University of British Columbia 2018–2020

– Member of [Centre for Artificial Intelligence Design and Action](#)

Lead Developer, QuantEcon 2019–2020

Prior Experience 2014–2018

- Research Assistant to Laura Veldkamp
- Research Intern, Office of the Comptroller of the Currency
- Intern, Morgan Stanley
- Treespace Math/Bio REU (NSF Grant #14-61094)

## Education

(In-Progress) Ph.D. Economics, Carnegie Mellon University 2021–2027

Committee: [Ali Shourideh](#), James A. Best, Maryam Saeedi, Aislinn Bohren (Penn)

M.S. Economics, Carnegie Mellon University 2021–2023

B.A. Mathematics, New York University 2014–2018

Dual-Enrolled Math Student, Princeton University 2013

## Working Papers

Ebrahimi Kahou, M., Fernández-Villaverde, J., Perla, J. & **Sood, A.** *Exploiting Symmetry in High-Dimensional Dynamic Programming* Working Paper 28981 (National Bureau of Economic Research, July 2021). <http://www.nber.org/papers/w28981>.

**Sood, A.** & Best, J. *Frequentist Persuasion* 2025. arXiv: [2510.25066](https://arxiv.org/abs/2510.25066) [econ.TH]. <https://arxiv.org/abs/2510.25066>.

## Works in Progress

Sood, A. *Socialized Learning*

## Software

[Expectations.jl](#): Quadrature operators for distributions.

[InstantiateFromURL.jl](#): Bind Jupyter notebooks to web-hosted dependency TOML.

## Grants and Awards

Scholarly Project Funding, CMU GSA/Office of the Provost	2025
\$500 for <i>Frequentist Persuasion</i>	
PNC Research Support Fund, PNC Center for Financial Services Innovation	2025
\$2500 for <i>Frequentist Persuasion</i>	
William Larimer Mellon Fellowship, Carnegie Mellon	2021-2026
Presidential Honors Scholar, New York University	2014-2018
National Merit Scholarship Finalist	2014

## Talks, Panels and Seminars

2024: SAET (U. CHILE), Theory Brown Bag (U. PITTSBURGH), Summer School in Economic Theory (poster, NORTHWESTERN — KELLOGG)

2023: PETCO (poster, PENN STATE)

2022: ASSA “What Can AI Do in Economics?” (VIRTUAL)

2020: JuliaCon (poster and talk, VIRTUAL)

## Invited Activities

2025: Asian School in Economic Theory (NYU ABU DHABI)

2023: DSE Deep Learning (U. LAUSANNE)

2022: DSE Empirical Market Design (MIT)

## Teaching

CMU	Principles of Micro	2024
CMU (TA)	MBA Statistics, Econ, Optimization Classes	2023-2024
CMU (TA)	PhD Metrics, Computation, Macro Courses	2022-2024

## Other Activities

Volunteer Tech Support, Free Geek Vancouver

Volunteer Teacher, Splash! (Various Universities)