# Arnav Sood

May 2024

Ph.D. Student in Economics, Carnegie Mellon University

## Personal

Email: arnavs@cmu.edu
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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*

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.

## Works in Progress

Sood, A. & Best, J. *Frequentist Persuasion*

## Software

Expectations.jl: Expectation operators for distribution objects using Gaussian quadrature.

InstantiateFromURL.jl: Bind Jupyter notebooks to web-hosted dependency TOML.

## Grants and Awards

| | |
|---|---|
| William Larimer Mellon Fellowship, Carnegie Mellon | 2021 |
| Presidential Honors Scholar, New York University | 2014 |
| National Merit Scholarship Finalist | 2014 |
| Top 16, US National Science Bowl | 2013 |
| NJ Governor's School of Engineering & Technology | 2013 |

## Talks, Panels and Seminars (Workshops†)

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

2023: PETCO (poster, PENN STATE), DSE Deep Learning† (U. LAUSANNE)

2022: ASSA "What Can AI Do in Economics?" (VIRTUAL), DSE Empirical Market Design† (MIT)

2020: JuliaCon (poster and talk, VIRTUAL)

## 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)