Arnav Sood

September 2025

Ph.D. Student in Economics, Carnegie Mellon University

Personal

Email: arnavs@cmu.edu   Phone: 609.285.7001
GitHub: arnavs   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. *Socialized Learning*

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

Software

`Expectations.jl`: Quadrature operators for distributions.

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

Grants and Awards

PNC Research Support Fund, PNC Center for Financial Services Innovation for *Frequentist Persuasion*	2025
William Larimer Mellon Fellowship, Carnegie Mellon	2021
Presidential Honors Scholar, New York University	2014
National Merit Scholarship Finalist	2014

Talks, Panels and Seminars (Workshops[†])

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

2024: SAET (U. CHILE), Theory Brown Bag (U. PITT.), Summer School in Economic Theory[†] (poster, 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)