

# Arnav Sood

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Ph.D. Student in Economics, Carnegie Mellon University

## Personal

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Citizenship: USA, Canada PR, India OCI

## Interests

Statistical Learning, Computational Methods, Information, Game Theory, Behavioral

## Employment

**PhD Data Science Intern, Revelio Labs** 2026

Projects TBD

Prior Experience (Pre-CMU) 2014–2020

**Lead Developer, QuantEcon**

Cowrote open-source Julia packages and managed lecture deployment/upgrades

**Predoc** ( $\approx$  Research Engineer), University of British Columbia

Worked on Julia solutions to stochastic DAE systems and neural methods for high-dimensional DP

**Research Assistant** to Laura Veldkamp

Theory and coding RA for various information economics/finance papers

**Research Intern**, Office of the Comptroller of the Currency

Dimension reduction for bank stress testing

**Intern**, Morgan Stanley

Wealth Management Intern for MSBNA

**Treespace Math/Bio REU** (NSF Grant #14-61094)

Testing conjectures about phylogenetic closure operations

## 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

## Selected Grants and Awards

Best Student Paper, AETW 2026	2026
\$500 NZD for <i>Frequentist Persuasion</i>	
PNC Research Support Fund, PNC Center for Financial Services Innovation	2025-2026
\$4000 for <i>Frequentist Persuasion</i>	
CMU GSA/Provost Funding (Travel and Research)	2025-2026
\$1250 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

## Software

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

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

## Working Papers

Ebrahimi Kahou, M., Fernández-Villaverde, J., Perla, J., **Sood, A.** & Bloem-Reddy, B. *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.

## Works in Progress

Sood, A. *Socialized Learning*

## Talks, Panels and Seminars

(“ES” stands for Econometric Society)

2026: Australasian Economic Theory Workshop (U. AUCKLAND), ES Interdisciplinary Frontiers Econ/AI+ML Meeting (CORNELL), ES North America Meeting (EMORY), Canadian Economics Association Annual Meeting (SIMON FRASER), ES Africa Meeting (HYBRID), ES China Meeting (HKU)

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

2023: Pennsylvania Economic Theory Conference (poster, PENN STATE)

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

2020: JuliaCon (poster and talk, VIRTUAL)

## Invited Activities

Summer Schools and Workshops: 2025 Asian School in Economic Theory (NYU ABU DHABI), 2023 DSE Deep Learning (U. LAUSANNE), DSE Empirical Market Design (MIT)

## Teaching

FractalU	Computational and Behavioral Economics	2026
CMU (TA)	Economics of Information	2026
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 Official, US National Science Bowl
- Volunteer Judge, US Presidential AI Challenge
- Volunteer Tech Support, Free Geek Vancouver
- Volunteer Teacher, Splash! (Various Universities)