

# Arnav Sood

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Ph.D. Student in Economics, Carnegie Mellon University

## Personal

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## Interests

Learning, Game Theory, Macro, Computational

## Education

(*In-Progress*) Ph.D. Economics, Carnegie Mellon University  
M.S. Economics, Carnegie Mellon University 2021-2023  
B.A. Mathematics, New York University 2014-2018  
Dual-Enrolled Math Student, Princeton University 2013

## Employment

Predoctoral Fellow, Univeristy 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  
– Economics Research Intern, Office of the Comptroller of the Currency  
– Intern, Morgan Stanley Bank, N.A.

## 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.

## Other Writing

[Optimal Stopping and Linear Complementarity](#). (With Jesse Perla.) QuantEcon Notes.

– [Computational Appendix](#).

[Customer Feedback \(Secondhand Alchemical Goods\)](#). Daily Science Fiction.

## Grants and Awards

William Larimer Mellon Fellowship, Carnegie Mellon	2021
Presidential Honors Scholar, New York University	2014
National Merit Scholarship Finalist	2014
NJ Governor’s School of Engineering & Technology	2013

## Talks, Panels, and Presentations (Invited Meetings\*)

2020: JuliaCon (poster and talk)

2022: ASSA “What Can AI Do in Economics?”, Econometric Society Summer School in Dynamic Structural Econometrics\*

2023: PETCO (poster)

## Teaching

TA (CMU)	PhD Computational Methods	2023
TA (CMU)	MBA Statistics Classes	2023
TA (CMU)	PhD Metrics, Macro Sequences	2022, 2023

## Other Activities

Volunteer Tech Support, Free Geek Vancouver

Volunteer Teacher, Splash! (Various Universities)