

Arnav Sood

May 2024

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

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](#): Quadrature operators for distributions.

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

Grants and Awards

| | |
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| 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[†])

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| 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

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| 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

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| Volunteer Tech Support, Free Geek Vancouver |
| Volunteer Teacher, Splash! (Various Universities) |