

# ARNAV SOOD

2001-1600M Beach Ave, Vancouver V6G 1Y7 Canada

 arnavs |  <http://arnavsood.com> |  (+1) 604.339.1784 |  USA |  1996

## EMPLOYMENT HISTORY

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Predoctoral Researcher, **University of British Columbia** Jun. 2018 — Present  
Advisor: Prof. Jesse Perla

Lead Developer, **QuantEcon** Jan. 2019 — Present  
References: Prof. John Stachurski, Dr. Matt McKay, Dr. Chase Coleman

Research Assistant, **Prof. Laura Veldkamp** May. 2016 — Jan. 2018  
References: Prof. Laura Veldkamp

## EDUCATION

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**University of British Columbia** Jun. 2018 — Present  
Selected Courses (MS and BA.)  
References: Prof. Vitor Farinha Luz  
A/A+ Grades


**New York University** Sep. 2014 - May 2018  
Bachelor of Arts (Math.)  
Minors in Economics, Philosophy  
Relevant Courses:  
GPA: 3.2


- Information Economics (PhD., A)
- Topology I (MS, A)
- Macroeconomic Foundations of Asset Pricing (Stern UG, B+)


## PROJECTS


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**Expectations.jl**  QuantEcon/Expectations.jl  
Wrap `Distributions.jl` objects in lightweight, callable expectation operators that accept functional arguments (e.g., `E(x -> x^2.)`). Uses specialized Gaussian quadrature rules for performance and accuracy.

**PerlaTonettiWaugh.jl**  jlperla/PerlaTonettiWaugh.jl  
Solves a differential system in steady state; implementing the model as a Differential Algebraic Equation (DAE); and writing code to handle transition dynamics in response to shocks. Joint with Chiyong Ahn.

**QuantEcon Julia Lectures**  [julia.quantecon.org](http://julia.quantecon.org)  
Writing new lectures, updating all code to Julia 1.x, deploying cloud backends, and project management/code review. Joint work with many people.

**vse.syzygy.ca**  ubcecon/vse-jupyterhub  
Work with Dr. Ian Allison of PIMS to maintain a JupyterHub server for departmental use. Deployed from Docker for a reproducible configuration.

**Germes, Social Networks, and Growth**  arnavs/networks-paper  
Julia implementation of Prof. Veldkamp's paper of the same name.

## SKILLS

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Julia, Docker, Open-Source Development, Economic Programming, Differential Equations