

ARYAN ARORA

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EDUCATION

Carleton College

B.A. in Mathematics & Economics

2020 – 2024

Northfield, MN

Magna Cum Laude, Phi Beta Kappa

Honors in Economics

GPA: **3.89/4.00**, Major GPA: **3.90/4.00**

RELEVANT COURSES

Carleton College:

Real Analysis, Complex Analysis, Abstract Algebra, Ordinary Differential Equations, Linear Algebra, Probability, Statistical Inference, Applied Regression Analysis, Intermediate Price Theory, Intermediate Macroeconomics, Econometrics, Mathematical Topics in Graduate Level Economics, Numerical Methods in Economics, Optimization Methods

Yale University (Audited):

Topics in Empirical Economics and Public Policy (Yusuke Narita, Max Cytrynbaum, and Charles Hodgson)

WORK EXPERIENCE

Predoctoral Research Fellow

Supervised by Profs. Winnie van Dijk and Scott Nelson

July 2024 – present

New Haven, CT

Tobin Center for Economic Policy, Yale University

Teaching Assistant

Assisted Prof. Jenny Bourne with Intermediate Price Theory

September 2023 - March 2024

Northfield, MN

Economics Department, Carleton College

- Top 2 out of 50 students in previous year's Price Theory course selected as TAs
- Leading students through course material, designing practice questions, and consulting on pedagogy

Summer Research Assistant

Supervised by Dr. David Wiczer

June 2023 – August 2023

Atlanta, GA

Federal Reserve Bank of Atlanta

- Studied the effects of unemployment insurance and sources of inflation alongside Dr. David Wiczer
- Evaluated What is the effect of unemployment insurance on future earnings of recipients?
 - Constructed a regression discontinuity graph to demonstrate the impact of unemployment insurance
 - Reduced processing time for a parameter search by parallelizing code in MATLAB
 - Proved that as workers bargaining power falls to 0, changes in wages come from changes to the outside option. First solved for general equilibrium, then applied Real Analysis knowledge
- Examined What are the sources of inflation in the labor and goods markets?

- Read What caused the US pandemic-era inflation by Blanchard and Bernanke (2023)
- Independently wrote a four-page research summary and identified research extensions
- Followed-up with a five-page independent report explaining the underlying Macroeconomic first-principles
- Generated 10 correlograms to find the optimal lag between model parameters in Python

Research Intern

November 2022 - December 2022

Externship with Eli Inkela, RA for Dr. Bo Zhao

Boston, MA

Federal Reserve Bank of Boston

- Used BLS, CPS, FRED, and IPUMS datasets while assisting with data cleaning in Stata

Research Assistant

November 2022 - December 2022

Supervised by Dr. Nathan Grawe

Remote

Carleton College

- Studied the effects of implicit financial aid taxes on secondary wage earners' labor decisions under Dr. Nathan Grawe
- Ran least squares and logistic regressions in Stata on 10,000+ longitudinal data point from NLS

Research Assistant

November 2021 - December 2021; June 2022 - August 2022

Supervised by Prof. Don Moore

Berkeley, CA

Haas School of Business, University of California, Berkeley

- Investigated the predictability of job performance, overconfidence in LLM's, and more under Dr. Don Moore
- Assessed How predictable is the job performance of academics?
 - Programmed infrastructure to manage over a billion observations from the OpenAlex database using SQL
 - Cleaned a subsample of 100,000 data points using Python (Pandas) and R
 - Worked with engineering faculty to understand server design and translated code from Python to R (and back)
- Examined Are large language learning models like GPT-3 overconfident?
 - Collected data from the GPT-3 model and authored a report on my findings
- Studied Is there a correlation between overconfidence belief in conspiracy theories?
 - Ran t-tests and co-authored a replication report that successfully refuted the original authors' results
 - Designed a Qualtrics survey and manually constructed a mean absolute deviation test in R
- Programmed a web scraper in Python (Beautiful Soup) to collect 1000 journalist emails for survey administration

Research Assistant

June 2019 - July 2019

Supervised by Prof. Emma Seppälä

New Haven, CT

Center for Emotional Intelligence, Yale University

- Coded over 2000 data points for a study examining the effectiveness of wellbeing interventions

PAPERS

(Undergraduate Economics Thesis) **Arora, A.** ‘A Date With Destiny: Relative Age Effects in High School and Beyond,’ 2024.

(Undergraduate Math Thesis) **Arora, A.** ‘Beyond Arrow: Revealing True Preferences,’ 2024.

AWARDS

2024 Robert E Will Prize in Economics Northfield, MN
Awarded to the senior economics majors who demonstrate excellent academic achievement and breadth of intellectual interests in the best tradition of the liberal arts education.

2021 Mortar Board Prize Northfield, MN
Awarded to a member of the previous first-year class who has achieved a distinguished grade point average

TECHNICAL STRENGTHS

Programming	Julia, Python, R, Stata
Software	L ^A T _E X
Languages	English - Native