DYLAN BLACK

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EDUCATION

Northeastern University *May 2025*

B.S. History and Economics

Minors: Data Science, Mathematics, Computational Social Science

GPA: 3.98/4.0

Related courses: Advanced Microeconomic Theory (PhD), Macroeconomic Theory, Applied Econometrics, Information Economics and Game Theory, Senior Economics Thesis, Calculus I-III, Linear Algebra, Probability and Statistics, Real Analysis, Machine Learning and Data Mining.

London School of Economics Summer School *July–August 2023*

GPA: 4.0/4.0

Related courses: Introduction to Data Science and Machine Learning, History of Global Economic Development.

RESEARCH INTERESTS

I am interested in labor economics and the economics of education with a secondary interest in economic history.

PROFESSIONAL + RESEARCH EXPERIENCE

Data Science Co-Op, TJX Digital Jan 2024 - June 2024

TJX Companies Inc. Framingham, MA

· Led analysis on the impact of weather on Sierra store sales using an applied regression analysis, including data collection, cleaning, and modeling

· Built & deployed a Random Forest time series model for Sierra sales, decreasing error from 4.3% to 2.7% ; Managed model selection, optimization, feature engineering, and deploymen

· Applied difference-in-differences methodology to evaluate the causal impact of a store remodel on sales

Undergraduate Research Assistant Dec 2023 - Feb 2024

Supervisors: Prof. Bilge Erten, Dr. David Hummel, Dr. Yunus Yilmaz Northeastern University

· Analyzed data to determine heterogeneous treatment effects of various lending schemes in India on time usage based on education, caste, and landholding

· Conducted robustness checks for a regression discontinuity design study to determine the effect of having an Islamic mayor on infant mortality using education and age variables

· Automated web scraping to collect demographic data on mayoral candidates in Turkey

· Maintained research organization, creating organized file systems for data and literature and writing ReadMe files

Research and Data Analyst Co-Op, Howe Innovation Center   Jan 2023 - July 2023
Perkins School for the Blind   Watertown, MA
· Designed a database of 1200+ companies and 900+ investors in the DisabilityTech market, automated data collection using the Crunchbase API and Python scripting
· Analyzed and reported patterns within market data using Python and statistical methods to make insights on market size, location, funding, and sectors
· Collaborated with McKinsey on a cornerstone whitepaper as the Innovation Center's first full- time researcher
· Developed interactive and accessible web-based visualizations of geographic data, companies founded over time, and categorizations of DisabilityTech products

Experience Data Analyst   Dec 2021 - June 2022
Fiveable   Remote
· Reported experience data using Amplitude and Google Analytics for over 20,000 users to drive product-focused decisions, such as a global analysis of student retention at certain times
· Implemented Amplitude data tracking in codebase for tracking user interaction and log in statistics
· Communicated data driven product recommendations to executive leadership on a weekly basis

Learning Project Coordinator   June 2021 - Dec 2021
Fiveable   Remote
· Led market research on CMS platforms for a company-wide content migration
· Performed SEO keyword research and developed content taxonomies for the eventual creation of over 1000 pieces of new content

PUBLICATIONS

Black, D. (2024b). *The Effect of Labor Market Conditions on High School Completion in the United States* [In Progress, Senior Thesis].

Black, D. (2023). Marxist Dehumanization and Alienation in Duncan Jones' *Moon. EconPress*, 24–32.

Howe Innovation Center. (2023). *Defining DisabilityTech: The Rise of Inclusive Innovation* (White Paper).

Black, D. (2022a). *"Heil Myself": The Functions of Holocaust Humor as a Tool for Holocaust Remembrance* (Working Paper).

Black, D. (2022b). TV On a Tray: Prepared Meals and Food Culture in the United States, 1950 - Present. *Northeastern University Historical Review, 2*, 73–99.

PRESENTATIONS

Black, D. (2024a). *H.A.G.S.: Yearbooks, Newspapers, and Student Protests in the Second Half of the Twentieth Century.* Talk presented at Creative Acts of Protest: A History Slam.

Black, D. (2024c). *TV On a Tray: Prepared Meals and Food Culture in the United States, 1950 - Present.* Poster presented at NCHC Annual Conference, Kansas City, MO.

Erten, B., Hummel, D., Keskin, P., Zhang, S., & **Black, D.** (2024). *Prescription Oversight: Mandatory Drug Monitoring and Intimate Partner Violence.* Poster presented at Northeastern University Research, Innovation, and Scholarship Expo (RISE).

ACHIEVEMENTS

Undergraduate Research Initiative Grant	*Spring 2024*
PEAK Experience Ascent Award	*Fall 2023*
Northeastern University Honors Scholarship	*Fall 2021–Spring 2025*

SKILLS/HOBBIES

Programming Languages	R (Tidyverse), Stata, Python (Pandas, MatPlotLib, Sklearn), SQL
Research Tools	Jupyter Notebooks, RStudio, Microsoft Excel, LaTeX