COLE FRANK

60 Diamond St, #3L ◆ Brooklyn, NY 11222 ◆ cole.v.frank@gmail.com ◆ github.com/colevfrank

---

EDUCATION

University of Chicago, Chicago, IL   September 2020 - March 2023
- M.S. in Computational Analysis and Public Policy
- Coursework in programming, statistical inference, databases, algorithms, deep learning, NLP
- Relevant deep learning research projects:
    - [Neural Approaches for Detecting Metaphors in Natural Language](#)
    - [Analyzing Weight and Layer Correlations in Pre-Trained BERT](#)
    - [Evaluating Modifications to a Simple Framework for Contrastive Learning of Visual Representations (SimCLR)](#)

City University of New York - Hunter College, New York, NY   August 2018 - May 2020
- Post-baccalaureate coursework in programming, linear algebra, stochastic processes

Carleton College, Northfield, MN   August 2011 - June 2015
- B.A. in Political Science/International Relations, minor in Political Economy

TECHNICAL SKILLS
- Experienced with Python (Sci-kit learn, NumPy, PyTorch, JAX, SciPy, transformers, spaCy, NLTK), Linux, R (tidyverse), SQL, Tableau, Markdown, LaTeX
- Familiar with JavaScript (D3.js), CSS, HTML

EXPERIENCE

Harris School of Public Policy – University of Chicago, Chicago, IL   December 2021 - Present
Research Engineer for Dr. Jeffrey Grogger
- Data engineering and analysis in support of a research project that involves finetuning pre-trained LLMs on text embeddings of criminal appeals documents for classification

University of Chicago Chicago, IL   December 2021 - December 2022
Graduate Teaching Assistant, Department of Computer Science
- Courses:
    - Mathematics for Computer Science and Data Analysis (CAPP 30271)
    - Machine Learning for Public Policy (CAPP 30254)
- Responsibilities include leading sections, holding office hours, grading assignments
- Received annual award for best TA

Munich Re New York, NY   June 2021 - August 2021
Data Science and Ethics Intern
- Implemented a bias assessment of a consumer-facing, machine learning model being used for the review and approval of life insurance applicants
- Authored a survey of technical methods for machine learning bias monitoring and mitigation in the insurance and financial services industry

AllianceBernstein, New York, NY   September 2018 - December 2019
Macroeconomic Consultant, Sell-Side Research
- Analyzed economic and financial data for regular research publications on U.S. economic outlook
- Authored weekly reports on strategic implications of U.S. macroeconomic data for major institutional investor clients

Council on Foreign Relations, New York, NY   February 2016 - September 2018
Research Associate for Brad Setser
- Published macroeconomic analysis cited by *Bloomberg News*, the *Financial Times*, *Barron's*, *The New York Times*, and *The Wall Street Journal*
- Oversaw all aspects of internship program, including recruitment, supervision, and mentorship