

# COLE FRANK

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## EDUCATION

**University of Chicago**, Chicago, IL

September 2020 - January 2023

- Pursuing an 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

- Proficient with Python (NumPy, Sci-kit learn, PyTorch, JAX), R (tidyverse), SQL, Bash, Tableau, Markdown, LaTeX
- Familiar with JavaScript (D3.js), CSS, HTML

## EXPERIENCE

**University of Chicago** Chicago, IL

December 2021 - Present

*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

*Research Assistant for Professor Jeffrey Grogger*

- Data engineering and analysis in support of a research project on using machine learning to predict domestic violence recidivism

**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 with specific focus on inflation data and capital flows
- 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, Maurice R. Greenberg Center for Geoeconomic Studies*

- 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