

# David Bradley Ph.D.

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Citizenship: U.S. Permanent Resident & U.K. Citizen

## Education

### University of Minnesota

Minneapolis, MN

#### PhD Economics

2013–2019

- Performed research to create and test quantitative models to predict the effects of changing immigration policy on labor markets and U.S. fiscal policy.
- Utilized econometric methods to analyze and estimate workers' substitutability by educational attainment and country of education using large scale observational data.
- Developed custom optimization methods to reduce the run time of the model central to my thesis from 22 hours to under 2 minutes allowing for more in depth policy analysis.

### University of Minnesota

Minneapolis, MN

#### MA Economics, 3.4 GPA

2013–2016

- Identified and forecasted the main drivers of the U.S business cycle using time series data.
- Analyzed cross-country data and performed statistical analysis to understand the linkages between international trade flows and fiscal policy.
- Completed extensive coursework in both cross section and time series econometrics, computational methods in addition to graduate level mathematics classes.

### University of Manchester

Manchester, England

#### BS Economics with Econometrics and Finance, 1st Class Honors Degree

2010–2013

- Ranked in top 1% of class and received the Dean's Achievement Award.
- Completed extensive coursework in econometrics and mathematics with applications to finance.

## Experience

### Analysis Group

Boston, MA

#### Associate Consultant - Health Care and Data Science

2019–Present

- Managing teams of one to three analysts in building statistical models using large scale patient claims data to help clients and senior staff understand pharmaceutical markets and create demand forecasts.
- Conducting experiments using market and individual patient data to understand the dynamics of pharmaceutical markets as part of healthcare litigation.
- Building econometric models to analyze the effects of illegal physician advertising on prescribing resulting in a reduction in damages to our client of 96%.
- Collaborating on data science projects using NLP to analyze the similarity of patents by rival pharmaceutical companies.
- Incorporating data from APIs into interactive dashboards to successfully help clients understand opioid prescribing across states and time.
- Developing machine learning training materials, including Tensorflow, in Python and R.

### University of Minnesota

Minneapolis, MN

#### Lead Instructor for Principles of Macroeconomics

2014–2019

- Collaborated and leading a team of 15 teaching assistants and instructors to create learning resources.
- Communicated these learning resources to over 700 students through seminars, lectures and online learning.
- Received the Distinguished Instructor Award 10 times, for obtaining a rating above 90% in student feedback evaluations.

### Analysis Group

Washington, D.C.

#### Summer Associate Consultant

2017

- Provided theoretical analysis of monopolies in the technology industry as well as the interaction of firm structure and tax liability.
- Communicated the findings of these projects to upper level management and clients.

### Economic Development Fellows Program at the University of Minnesota

Minneapolis, MN

#### Consultant

2017

- Provided statistical analysis and forecasts of future sales as part of pro-bono consulting services to a Minneapolis based medical device company to help complete the commercial section of a grant application.

## Skills

**Coding:** Python, R, Matlab, STATA, SQL, SAS, RShiny, RMarkdown, Dash, AWS, Google Cloud Platform

**Certification:** Coursera: Google Cloud Platform Big Data and Machine Learning Fundamentals

**Languages:** English - Native, French - Advanced, Spanish - Basic