David Bradley Ph.D.

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

I am an associate consultant on healthcare and data science projects. My strengths lie in leveraging my extensive Python, R and SQL skills, as well as knowledge of machine learning techniques to answer business questions. In this role I have also gained experience collaborating with and managing teams.

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.

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, Git

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

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