

DAVID A. BERMAN

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EDUCATION

Bachelor of Arts: Economics

University of Chicago

Sept 2015 – Jun 2019

Chicago, Illinois

- NCAA Student Athlete: Swimming
- Booth School of Business courses: Financial Accounting, Corporate Finance, and Financial Statement Analysis

WORK EXPERIENCE

Co-Founder

AgriDelta

Apr 2020 – Present

Chicago, Illinois

- Despite the fact that there are 30,000 known edible plants on earth, just 9 make up 70% of human food, We are using Machine Learning and Economics to make Biodiversity a viable choice
- Developed and deployed a recommendation engine over AWS to suggest alternatives for consumers looking to compliment their recipes
- Using valuation methodologies designed for ABSs to create valuation models for spot and options prices for more diverse commodities

Capacity Development and Innovation Branch Intern

United Nations Environment Programme (UNEP)

Aug 2019 – Apr 2020

Nairobi, Kenya

- Maintained database of and built macro-economic and operating financial models for wastewater recovery projects
- Conducted environmental, social, and economic research to produce presentations and publications including the Emissions Gap Report 2019
- Collaborated with UN Member States in drafting evidence based legislature to promote private sector Green and Blue investment
- Coordinated with UN Agencies (UNDP, UNHCR, and WFP) to incorporate environmental indicators into existing models for development

Business Analyst Intern

BuiltWorlds

Market research firm working to understand and expand upon recent innovations in the built environment

June 2018 – Aug 2018

Chicago, Illinois

- Performed in depth market research on potential new market entrances to optimize growth, diversification, and potential risks
- Tracked customer engagement across various products through the development and review of key performance indicators
- Optimized the use of the company's CRM by incorporating clustering techniques to funnel leads appropriately

PROJECTS

Two Sigma Market Prediction

Competition: Top 10% Finisher

- Organized and analyzed two Pandas Data Frames: 10 years of daily return for 3,780 unique equities and 9.32 million published articles
- Used clustering within scikit-learn to structure the data then applied a Probabilistic Neural Network within TensorFlow Probability to predict movements while incorporating concepts of risk and uncertainty

Textual Analysis and Semantic Search of ESG Reporting

- Applied Natural Language Processing (NLP) techniques, including Word2Vec and BERT, to find passages within text relevant to specific Sustainable Development Goals (SDGs)
- Identified coverage of SDGs aggregated by industry, geography, and time, to better understand which approaches work and which need improvement

Analysis of the placement and result of energy infrastructure

- Analyzed U.S. and international data sets to find what factors determined locations of different forms of energy infrastructure (Coal, Natural Gas, Nuclear, and Renewable)
- Once placed, used techniques such as spatial auto-correlation to measure how these structures impacted surrounding communities and how the cost/benefit was dissipated over time and location

SKILLS

Fluent Russian, Basic Spanish

Basic French (Spring 2018 study abroad at Paris Diderot University)

Analysis: Excel (W/VBA), Linux, Matlab, Python, R, Stata, SQL, TensorFlow

Presentation: Adobe Creative Suite, Fusion 360, \LaTeX , Microsoft Office Suite