DAVID A. BERMAN

github.com/dberm312

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

High School Diploma
New Trier High School

📅 Aug 2011 – Jun 2015   📍 Winnetka, Illinois

WORK EXPERIENCE

Capacity Development and Innovation Branch Intern
United Nations Environment Programme (UNEP): Science Division

📅 Aug 2019 – Apr 2020   📍 Nairobi, Kenya

- Maintain database of and build macro-economic and operating financial models for wastewater recovery projects and technologies identified by UNEP from around the world using analytics to select projects
- Conduct research connecting environmental, social, and economic data to produce various UN presentations and publications including the Emissions Gap Report 2019
- Collaborate with UN Member States to assist them in drafting legislature and directives to promote Green and Blue private sector projects by developing an enabling tax and regulatory environment by reviewing academic literature and performing independent analysis
- Collaborate with other UN Agencies such as UNDP, UNHCR, and WFP to develop strategies to incorporate environmental dimensions 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 markets to enter in the future to optimize growth, diversification, and optimize potential risks
- Tracked customer engagement across various products to determine which of the company's offerings were winners and losers
- Optimized the use of the company's CRM by incorporating clustering techniques to funnel leads appropriately

Acquisitions Intern
Klaff Realty
Real estate private equity firm with assets across The Americas

📅 June 2017 – Aug 2017   📍 Chicago, Illinois

- Reviewed offering memoranda and determined their viability
- Compared property debt alternatives to find optimal duration, leverage, interest rate, capital structure, and covenants
- Performed in depth market research on global real estate markets, analyzing macro-economic and development trends to find opportunities both domestically and abroad (specifically in Latin America)

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 across global markets, and 9.32 million published articles
- Developed an algorithm to determine the relevance specific articles to securities/industries

Textual Analysis and Semantic Search of ESG Reporting

- Independently implemented a web-scraper with Beautiful Soup which pulled reports by companies through the SEC and equivalent systems in Western Europe and East Asia
- Applied Natural Language Processing (NLP) techniques, including Word2Vec and BERT, to find passages within the text relevant to specific Sustainable Development Goals (SDGs)
- Identified coverage of SDGs aggregated by industry, geography, and time, to spot granular trends to better understand which approaches work and which need improvement

Analysis of the placement and result of energy infrastructure

- Analysed 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 more advanced techniques such as spatial auto-correlation to measure how these structures affected the people surrounding them 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

Presentation: Adobe Creative Suite, Fusion 360, LaTeX, PowerPoint, Word