DAVID A. BERMAN

@ bermanadavid@gmail.com   📞 +1-312-890-3639   ⌂ github.com/dberm312   ✉ 145 Ravine Glade St, Glencoe, Illinois 60022

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
- Model United Nations of the University of Chicago (MUNUC)

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 – May 2020   📍 Nairobi, Kenya

- Utilizing methods such as remote sensing, IoT, and Citizen Science, we looked at how we could create faster, more reliable, and accurate data for recording environmental analytics as mandated by the SDGs and MEAs
- Studying environmental and economic data to compile and present reports to policy makers on how environment impacts their economies
- Collaborating with other UN Agencies such as UNDP and UNHCR to develop methodologies and strategies to measure the impacts of the changing environment on their work and vice versa
- Assisting in the publication of flagship reports such the Emissions Gap Report 2019

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 our offerings were winners and losers
- Optimized the use of our CRM by incorporating Machine Learning techniques to more effectively organize and funnel leads

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 investment attractiveness and 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, aggregated, merged, and analyzed two Data Frames: 10 years of daily return for 3,780 unique equities across global markets, and 9.32 million published articles
- Applied Natural Language Processing and Machine Learning techniques to determine the sentiment and relevance of specific news

Textual Analysis and Semantic Search of ESG Reporting

- Independently implemented a web-scraper (Beautiful Soup) which pulled reports realised 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), Matlab, Python, R, Stata, SQL

Presentation: Adobe Creative Suite, LaTeX, PowerPoint, Word