

DAVID A. BERMAN

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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

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

- Studying environmental and economic data to compile and present reports to policy makers on how environment impacts their economies
- Integrating different datasets to improve UNEP's knowledge base while implementing anomaly detection algorithms and consulting with expert partners to ensure the validity and relevance of the data
- Collaborating with other UN Agencies such as UNDP, UNHCR, and WFP 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 as the Emissions Gap Report 2019 and presenting to Public, Private and, Social Sector Leaders

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 BeautifulSoup 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 autocorrelation 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