

# DAVID A. BERMAN

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## EDUCATION

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### 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

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### 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

### 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
- Analyzed macro-economic and development trends to find international investment opportunities (particularly in Latin America)

## PROJECTS

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### 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

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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, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office Suite