

Nicholas Dahl

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EDUCATION

Duke University, *M.S. in Statistical Science*

August 2021 – May 2023

- Relevant Coursework: Predictive Modelling, Statistical Programming, Algorithmic Trading, Bayesian Statistical Modelling, Financial Derivatives, Statistical Computation, Theory of Inference

Yale University, *B.S. in Statistics and Data Science*

August 2017 – May 2021

- Cumulative GPA: 3.89, *Magna Cum Laude*
- Relevant Coursework: Artificial Intelligence and Machine Learning, Economic Modelling, Environmental Data, Optimization Techniques, Venture Capital, Financial Economics

EXPERIENCE IN DATA ANALYSIS AND STATISTICS

The D. E. Shaw Group, *Financial Operations Summer Analyst*, New York City, NY

May 2022 – August 2022

- Executed short-side modeling and negotiation for 8 funds under management through Python-based quantitative models
- Coded and ran Markov Chain Monte Carlo simulations for asset pricing and predictive analysis
- Developed and deployed algorithmic asset allocation strategy to identify cost-saving opportunities from counterparties

Analysis Group, *Summer Analyst*, Denver, CO

May 2021 – August 2021

- Generated 2 in-depth economic analyses in Excel and R to facilitate expert testimony for ongoing litigation
- Explored and extracted insight from relevant databases, identifying potential data narratives and theses
- Created supportive exhibits, data visualizations, and reports for use in expert depositions in key witness testimonials

Halogen Ventures, *VC Fellow*, Los Angeles, CA

May 2021 – August 2021

- Researched and pitched several investment theses for development of investment portfolio
- Received 50+ pitches from founders and consulted on decisions regarding funding opportunities
- Developed Excel-based economic models for select portfolio companies in support of business decisions and operations

Environmental Justice Performance Index, *Founder*, New Haven, CT

October 2020 – Present

- Founded and developed statistical metrics to quantitatively measure companies in terms of environmental justice
- Wrote code and designed framework to standardize input and produce scored value for nearest-neighbor comparisons
- Garnered \$12,500 through grant opportunities and awards to further expand data efforts

Yale Carbon Containment Lab, *Data Consultant*, New Haven, CT

May 2020 – June 2022

- Created rehabilitative model for carbon sequestration to guide the Biden Transition Team's 4-year plan
- Researched economic feasibility of carbon-offset projects across continental United States in Python and R
- Developed and implemented adaptive algorithm to predict 2.0 gigaton carbon offset project

ADDITIONAL EXPERIENCE

Duke University, *Graduate Teaching Assistant*, Durham, NC

Aug 2021 – Present

- Provide instruction alongside Professor Simon Mak in Machine Learning and Data Mining and Professor Rundel in Statistical Computation, facilitate direct student engagement on relevant coursework

Yale Athletics, *Captain of Men's Cross Country*, New Haven, CT

Sep 2020 – May 2021

- Academic All-Ivy 2018-2021, NCAA Academic All-American 2019-2021, NSCA Athlete of the Year (Track and Field)
- Elected captain for Yale Men's Cross Country and Track and Field

COMPUTER SKILLS AND LANGUAGES

- Job and education experience with R, Python, SPSS/SAS, SQL, Vertica, JavaScript, STATA, and Microsoft Office
- Specific work in PyTorch, TensorFlow, GGPlot, Seaborn, Apache Spark, Theano, Tidyverse
- Experience in HTML & CSS, jQuery, PHP, Racket, MiniTab, and Unix
- Fluent in Greek, proficient in American Sign Language