

Cameron Hogan

LinkedIn: <https://www.linkedin.com/in/cameronjhogan/>

+1 (801) 390-2850 | cjh337@cornell.edu

EXPERIENCE

Barclays Investment Bank

New York, NY

Quantitative Analytics Intern

Incoming Summer 2025

- Incoming quantitative analytics associate intern for summer 2025, NYC office
- Assigned to Prime Services desk, project undecided still

Cornell University — Department of Statistics

Ithaca, NY

Researcher

Aug 2020 – Present

- Health AI: Collaborating with NYP Hospital to predict heart failure using several data modalities. Current responsibilities include data wrangling/cleaning, predictive modeling (CART methods, CNNs, transformers), and presenting
- Collaborating with Qognitive AI*, researching quantum-based dimension reduction techniques
- Biostatistics: Co-wrote and published paper on the effects of COVID-19 on low-risk patients***. Modelled hospital outcomes using multiple logistic regression and Cox-proportional hazard models

Parsha Works — Freelance Software Consulting

Provo, UT

Co-Founder/Software Engineer

Mar 2022 – Aug 2023

- Co-built backend software for event ticketing system from scratch using Django and sold it for \$50,000
- Built backend software using Selenium to web scrape 10+ websites generating keyword-specific real estate leads daily
- Automated the process of finding, summarizing, and emailing multi-city real estate leads to our clients

Duality Group — Quantitative Hedge Fund

New York City, NY

Quant Research Intern

May 2022 – Jul 2022

- Found non-linear relationships between quantitative factors and stock returns resulting in a Sharpe Ratio of 3.0 in back tests
- Used novel quantitative factors to model enterprise value using penalized regressions (L1 and L2 penalties)
- Predicted market returns using ensemble methods including Random Forest, XGBoost, and deep neural nets

BYU Dragn Lab

Provo, UT

Deep Learning Researcher

Oct 2021 – May 2022

- Natural Language Processing: Co-wrote paper on machine translation for low-resource languages**
- Presented paper to 40+ computer scientists and mathematicians at school-wide research conference
- Implemented and fine-tuned transformer model in Python to add cultural embedding in machine translation

EDUCATION

Cornell University

Ithaca, NY

PhD in Statistics

Aug 2023 – May 2027

- Relevant Coursework: Linear Models, Statistical Computing, Optimization, Linear Algebra, Probability, Statistics

MS in Computer Science

Aug 2023 – May 2026

Brigham Young University

Provo, UT

BS in Mathematics

Apr 2023

SELECT PAPERS

- ***Christopher J. Gonzalez, **Cameron J. Hogan**, Mangala Rajan, Martin T. Wells, “Life-Threatening Complications in Relatively Lower-risk Patients Hospitalized with COVID-19: A Retrospective Cohort Study”, *PLOSE ONE*, 2022
- **Nathaniel Robinson, **Cameron Hogan**, David Mortenson, Nancy Fulda, “Data-adaptive Transfer Learning for Low-resource Translation: A Case Study in Haitian”, *LoResMT* 2022
- * Luca Candelori, Alexander G Abanov, Jeffrey Berger, **Cameron J Hogan**, et al., “Robust estimation of the intrinsic dimension of data sets with quantum cognition machine learning”, *Scientific Reports*, 2025

HONORS/AWARDS

- Cornell University Fellowship (First year full stipend awarded to top 2 incoming PhD students in Department of Statistics)
- Full-tuition academic scholarship awarded by Brigham Young University (merit based)
- Marcellus and Shirley Burton Mathematics Department Scholarship (half-tuition, merit based)
- Brigham Young University Dean’s List (top 5% of students)

TECHNICAL SKILLS AND VOLUNTEER SERVICE

- Programming Languages/Frameworks/Databases: Python, R, SQL/Django, Pytorch/MySQL
- Relevant Skills: Model selection, CART methods (boosting, bagging), data cleaning, big data, regression, neural networks
- Relevant Python Packages: Pandas, NumPy, Scikit-Learn, PyTorch, Matplotlib, Seaborn, XGBoost, Statsmodels, NLTK
- Director of Translation, Ayuda.World — *Non-profit providing education to children in Guatemala* Jan 2022 – Present
- Co-President, BYU Mathematical Finance Club May 2019 – Apr 2020
- Volunteer Tutor, 5th grade Spanish Immersion Program, Crestwood Elementary School Oct 2018 – Dec 2018