ERIC HU

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EDUCATION

New York University, College of Arts and Science **May 2024**
Bachelor of Arts in Honors Mathematics & Computer Science, minors in Business Studies & French
GPA: *3.97/4.00*
Honors/Awards: Presidential Honors Scholar; Math Honors Program; Dean's List (2020-2023)
Relevant Coursework: Data Science & Data-Driven Modeling, Partial Differential Equations, Numerical Analysis, Object Oriented Programming, Machine Learning & Computational Statistics, Time Series Analysis

PROFESSIONAL EXPERIENCE

Shanghai ZTCapital Management Co.,Ltd **Shanghai, China**
Quantitative Analyst Intern (Remote) Oct. 2023 – Present
- Developed multiprocessing algorithms for fast processing of high-frequency stock data (API downloading /cleaning/saving/reading), boosting average data processing speed by 500%
- Replicated and adapted 'Deep Learning in Building High-Frequency Factor Feature Engineering' study from Haitong Securities to develop and implement a tailored portfolio optimization strategy

Applied Computational Social Sciences Data-Intensive Governance - PSL Institute **Paris, France**
Data Analyst Intern, Equipe de Data Scientists Mar. 2023 – May. 2023
- Employed NLP models (KeyBert/TF-IDF) for 3-year French Ads' data cleaning and keyword extraction
- Designed algorithms to predict gender and identified trends of sexism in French Ads
- Visualized numerical data with Pyplot to compare thematic influences of economic journals and produced publish-level images

ACADEMIC EXPERIENCE

Transport of Heat/Acoustic Wave in Random Media with Green's Function Formalism **New York, NY**
Advised by Prof. Stefano Martiniani | *DURF Grant Recipient ($950)* Oct. 2023 – Present
- Established the equivalent of the scattering (Lippman- Schwinger) equation for transport problems in terms of Green's function
- Designing a numerical solver to compute the full response of the medium to external excitations, characterizing the effect of structure on the medium's response

Classical Quantile Regression and 1D Vector Quantile Regression **Paris/New York**
Advised by Prof. Alfred Galichon | *SURE Grant Recipient ($3500)* Mar. 2023 – Oct. 2023
- Constructed classical quantile regression and one-dimensional vector quantile regression, deducing equivalence in computational results and linear programming formulation
- Presented findings at undergraduate symposium and compiled results into a 15-page report

Spotify Music Classification **New York, NY**
Machine Learning Capstone Project Mar. 2022 – May. 2022
- Built machine learning models based upon 45,000 songs from Spotify API
- Classified 5,000 songs into 10 genres via 4 models (SVM/Neural Network/Random Forest/Adaboost)
- Evaluated model performances using ROC curve and achieving highest AUC score of 0.92/1.00

TECHNICAL SKILLS

Computer	Python, Java, C++, SQL, MongoDB, Julia, Matlab
Languages	Fluent in English and Chinese, Conversant in French