

# ERIC HU

Queens, NY, 11101 | (718) 208-6170 | xh2007@nyu.edu

## EDUCATION

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**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; Department Honors; Dean's List (2020-2023)

**Relevant Coursework:** Data Science & Data-Driven Modeling, Stochastic Calculus, Partial Differential Equations, Numerical Analysis, Machine Learning & Computational Statistics, Time Series Analysis

## ACADEMIC EXPERIENCE

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**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 and 1-D vector quantile regression, deducing their 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

## PROFESSIONAL EXPERIENCE

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**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 quantitative trading 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

## TECHNICAL SKILLS

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**Computer  
Languages**

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