

MINGXI LIU

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TECHNICAL SKILLS

- Hardware/Software Skills: Python, Solidity, R (R-Studio), Excel (VBA), SQL, Tableau, SAS, SPSS, MATLAB, QuickBooks, Adobe Premiere Pro, MS Applications, ImageJ, STATA, and Latex.

EDUCATION

BOSTON UNIVERSITY, QUESTROM SCHOOL OF BUSINESS
PhD, Information Systems

Boston, MA
2022-2027(Expected)

FORDHAM UNIVERSITY, GABELLI SCHOOL OF BUSINESS
MS, Business Analytics, GPA 3.96

New York, NY
2020-2021

UNIVERSITY OF WISCONSIN-MADISON
BS, Major in Mathematics, Minor in German

Madison, WI
2013-2018

PROFESSIONAL EXPERIENCE

VORTEX TRADING, LLC

Cromwell, CT

Data Analyst

Oct 2021–Present

- Utilizing Machine Learning techniques such as logistic regression and classification tree to screen stock indicators and generate the optimal models for stock price prediction in different sectors accordingly
- Developing an automated pipeline that directly extracts data from online sources such as Yahoo Finance, preprocessing and analyzing retrieved datasets including categorizing patterns, and suggesting recommendations for financial derivatives

FORDHAM UNIVERSITY

New York, NY

Graduate Assistant/ Research Assistant

Feb 2021–12 2021

- Developing a pricing model using Python and Reinforcement Learning to simulate the P2P mode in the renewable energy market including deriving a Nash equilibrium strategy (Prof. Xu Han)
- Crawled over 12000 comments on articles discussing AI and implemented sentiment analysis to investigate public attitudes towards AI (W. "R.P." Raghupathi)
- Grading assignments for intro & advanced Python and Database Management courses at a fast pace. (Prof. Daniel Groner)
- Holding weekly meeting with professor to report work progress and develop future course (Prof. Daniel Groner)
- Revamped organization process for students' grade and dissertation information and reduced updating/organizing time by 60% utilizing database knowledge on Excel (Pamela Hwang, DPS program)

INVIVOSCIENCES, INC

Madison, WI

Internal Control/ Data Analyst

Oct 2018–Sep 2019

- Ensured monthly bank reconciliation for 2 company accounts, spotted and corrected financial discrepancy by examining and interpreting cash flow data on QuickBooks
- Established and improved an automated budget model that prepares and maintains multiple programs budgets of over one million dollars from both national and commercial funds using Excel
- Optimized MATLAB program to analyze tissue force data after studying tissue engineering background
- Cut at least 70% of daily time cost by designing macro in ImageJ to automatically capture photos of individual tissues from videos and count colonies of cell culture

MATHLAB, DDEEA, & VARSITY TUTOR, UW-MADISON Madison, WI

Academic Coach

Oct 2014–Jun 2020

- Mentored over 100 college students enrolled in 13 Mathematics courses in large groups and coached over 30 students enrolled in intermediate Mathematics courses and elementary German courses from diverse backgrounds individually

PROJECTS

IVSURFER SOFTWARE & KINASE PROJECT, INVIVOSCIENCES, INC

Jan 2019–Sep 2019

- Proposed and led to convert a software designed in MATLAB to a more precise and faster Python version in 6 months that saved costs by around \$2,000 per year and shortened time of a full analysis by at least 80%
- Contributed Python skills and introduced methodologies such as Fast Fourier Transform and Butterworth Filter
- Collaborated with FDA comparing cancer drugs' side effects on patients' heart based on lab and historical data
- Applied unsupervised machine learning techniques such as cluster analysis on large gene databases with Python and R

ADDITIONAL

- Languages: English (Fluent), Chinese (Native), German (Intermediate), Cantonese (Conversational)