

# HAIJIAN WU

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## EDUCATION

**Columbia University, Fu Foundation School of Engineering and Applied Science**

New York, NY

**Master of Science in Business Analytics**

Aug 2022 - Dec 2023

GPA: 4.110/4.0

Course: Risk Management, Introduction to Financial Engineering, Data Analytics, Statistics & Simulation, Deep Learning for OR & FE

**University of Michigan at Ann Arbor, College of Literature, Science, and the Arts**

Ann Arbor, MI

**Bachelor of Science in Mathematics and Data Science**

Aug 2019 - May 2022

Minor in Physics and Creative Writing

GPA: 3.986/4.0, Graduation with Highest Distinction, Phi Kappa Phi, University Honors, James B. Angell Scholar

Course: Linear Algebra; Data Mining and Machine Learning; Regression Analysis; Financial Math; Theoretical Statistics

## WORK EXPERIENCE

**China International Capital Corporation, Wealth Management**

Shenzhen, China

**Data Analyst, Internet Finance Department**

May 2021 - Aug 2021

- Gathered and analyzed CICC wealth management mobile app data from 2020 to 2021 and its user feedback on product usage, features, and functions to investigate impact of a third-party online distribution channel on app
- Engaged in the CICC wealth management mobile app new event tracking and BI dashboard project, took in charge of filing new event tracking documents and implementing UAT (User Acceptance Testing) and A/B testing
- Communicated with six operation teams to gather requirements for business analytics report updates, and identified business analytics solutions based on the analysis of internal user needs
- Enhanced data authority management system based on organizational structure changes and data governance system and formulated a specific data authority application process based on different types of data applications

**China Minsheng Bank (CMBC)**

Shenzhen, China

**Credit Analyst (full-time internship), Credit Department**

Dec 2020 - Jan 2021

- Engaged in a credit analysis project for iDreamSky, a domestic leading gaming company in licensing and operating of single-player mobile games and mobile online games, and assisted project team in creating final credit report
- Studied China's gaming industry and assessed credit history and financial statements of iDreamSky (valued 10 million dollars) to identify potential credit risk, providing industry and company insight to credit officers
- Managed closely with Business Bankers and Commercial Loan Operations in credit evaluation and approval project for EEKA Fashion Group's M&A case (valued 30 million dollars), and mainly took in charge of the financial analysis of EEKA

**Tencent, Technology & Engineering Group**

Shenzhen, China

**Engineer Assistant**

Jul 2019 - Aug 2019

- Designed and implemented a Single Sign-on (SSO) system based on Gin frame, applied MySQL, Redis, and Docker to design user databases and placed system on cloud servers
- Developed basic frames and distributions with CSS, HTML, and JSON, including MVC design modes
- Designed and employed prevalent security tools for internet, such as Cookie, Session, and methods to avoid DDOS attack

## RESEARCH EXPERIENCE

**University of Michigan, School of Education and Mathematics Department**

Ann Arbor, MI

**Research Assistant for Professor Vilma Mesa**

Jun 2022 - Jul 2022

- Annotated data of student responses to specific linear algebra questions and categorized responses to about 10 groups for coding system to evaluate student performance about studying linear space and spanning set
- Cooperated in developing coding category system based on student responses to improve accuracy of categorizing system

## PROJECT EXPERIENCE

**IEOR 4742 at Columbia University and European Investment Bank**

New York, NY

**Researcher, Crop Yield Prediction Group**

Sep 2022 - Jan 2023

- Improved and optimized RNN-CNN models with LSTM architecture for soybean data collected from 1088 counties through about 30 years to make predictions of crop yield by tuning hyper-parameters, such as activation functions, kernel size, and stride.
- Summarized contributions from all previous groups through one-year, visualized prediction results and errors, and wrote final report

**EECS 486 at University of Michigan Ann Arbor**

Ann Arbor, MI

**Project Developer, University of Michigan Event Search Engine**

Mar 2022 - May 2022

- Applied Vector Space Model and Standard Rocchio Method to build a model and design the search engine includes 1000+ events
- Utilized word2vec to create summary for events, optimize ranking of retrieved pages and evaluate user relevance feedback

**Stats 415 at University of Michigan Ann Arbor**

Ann Arbor, MI

**Analyst, Financial Asset Return Prediction**

Nov 2021 - Dec 2021

- Cleaned one-year long real financial data of three assets (daily price) from a Chicago Financial Technology company and made statistical analysis and visualization; built and selected reasonable attributes and variables
- Utilized regressions to build models to predict return rate of the portfolio combined by these three assets
- Achieved 0.58 accuracy (top three among groups) finally given the real testing financial data (the next year asset price and return rate)

## LANGUAGE AND IT SKILLS

- Programming: Python, C++, R, SQL, MATLAB
- Quantitative Skill: Data Mining, Machine Learning, Basic Deep Learning, Elementary NLP and Information Retrieval