

Evelyn Du

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Master of Operational Research and Industry Engineering, **GPA: 4.0**

Jan. 2026

Renmin University of China, Beijing, China

Bachelor of Science in Accounting & Data Science, **GPA: 3.8**

June 2024

Universitidal Isabel, Master of Big Data and Intelligence, **GPA: 9.93/10**

June 2024

University of Maine at Presque Isle, Bachelor of Arts in Management Information Systems, **GPA: 3.93**

June 2024

Selected Coursework: Machine Learning for Big Messy Data, Reinforcement Data Mining, Computational Optimization, Risk Modeling, ETL Process, Blockchain Practice, Business Intelligence Simulation, Robot Automation Design

Selected Publication:

- Application of three social psychological models in post-epidemic, based on statistical science summary test. *Journal of Humanities and Social Sciences*, September 2024
- Tokyo Stock Exchange Prediction with Hybrid Models of Lightgbm and DNN, *the 2nd International Conference on Mathematical Statistics and Economic Analysis*, May 2023.
- Application of support vector regression in prediction model using a genetic algorithm optimized, *Journal of Physics: Conference Series*, July 2021
- Economic Forecast of the Southern China on BP Neural Network---Taking Chongqing as an Example, *In 6th International conference on financial innovation and economic development*, March, 2021
- A new image description generation algorithm based on improved attention mechanism, *In Basic & Clinical Pharmacology & Toxicology*, January 2021

Patent:

- Du, W., Chu, Q., Qin, Y., Li, X., Guan, Y., Chen, H., & Xia, J. (2022). A novel multifunctional smart bracelet [Patent No. ZL 2022 2 0604426.8]. Patent application date: March 18, 2022.
- Chu, Q., Du, W., Wei, T., Jiao, Y., & Li, M. (2021). A heating load forecasting system based on the LSTM algorithm model V1.0 [Software]. Development completed: July 15, 2021; First published: July 16, 2021.

Reserch Interests:

- Machine Learning for Decision Making in Finance, Computational Optimization for Supply Chain, Complicated Algorithm

Awards:

- Akuna Trading Competition Silver (2024), Association for Computing Machinery Member(2023), Mathematical Contest in Model F Prize(2022), Global Citizen Scholar(2021), Kaggle(Silver, 2021), Mathematical Competition(1st prize, 2018)

SKILLS & INTERESTS

- Programming Languages and Software:** Python (Pandas, NumPy, Matplotlib, TensorFlow, PyTorch; SVD, KNN), R (Regression Analysis, Decision Tree), SQL, Git, STATA, SPSS, MATLAB; Jupyter Notebook, Bloomberg, Wind, PointBI
- Data Visualization:** Tableau, Power BI, Web (Jekyll, Hugo, Hexo, WordPress, Vue), Figma, HTML, JavaScript
- Languages:** Mandarin (native), English (fluent), Korean (intermediate), French (basic)
- Financial Certification:** ACCA(AB/MA/TA/LW/PM/TX/FR); CIMA; CPA Candidate
- Interests:** Marathon Running; Scientific Novel Writing; Travelling

PROJECT EXPERIENCE

Teaching Assistant, *NBA6550 Business Data Analysis with SQL*

Aug. to Dec. 2024

- Assist students by providing guidance on SQL concepts, debugging code, and offering feedback on assignments and projects to enhance their understanding of retrieving, cleaning, and organizing business datasets.

Research Assistant; *Stanford Institute for Economic Policy Research*

Jan. to Jul. 2024

- Collaborated with Dr. Chenzi Xu and applied hypothesis testing and causal inference to transaction records from the World Bank in the 20th and 21st centuries that were processed through large-scale machine learning models.
- Investigated the buffering effect of alternative credit exporters to reshape trade patterns disruptions in financial sectors.

Co-Founder, *BigDog(a Decentralized Gamefi Simulation Platform)* New York

Mar. 2023 to Present

- Innovated auto-designed fintech market-making strategy by implementing smart contract programming through blockchain(Solidity) for 20k players to exchange crypto and won 30K USD Capital Support

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Co-Founder, Howdream(Educational Art Therapy Workshop), Canada **Jul.2022 to Dec. 2023**

- Applied RPA (robotic process automation) with UiPath for a 300% site update speed increase and monitored the daily unique visitor conversion through the Vmware cloud and local infrastructure warehouse with git-push operation
- Increased workshop ticket sales by 40% for over 1,000 students: Collaborated with medium hospitals to conduct ANOVA(Analysis of variance) model in SPSS, removed variables with high correlation with high VIF(Variance Inflation Factor), and achieved 96% accuracy for LSTM(long-short-term memory model)

Research Assistant; Cornell University **Feb. 2022 to May. 2023**

- Collaborated with Dr. Yan mi to establish a Sino-American cultural exchange platform and conducted quasi-experiments to compare the impact of different educational approaches on educational outcomes
- Compiled historical data on local government education funding and optimized educational policy using clustering, Mega comparison tests, and sigmoid function increasing the efficiency of threshold sensitivity analysis by 20

Algorithm Project Leader, Aquumon (the Top AI Trading Asian Company), China **June to Dec. 2020**

- Recognized 10+ abnormal risk points and employed SQL to monitor and shadow the company's systematic trading records and audit system implementation's cybersecurity through breakpoint debugging
- Assisted in Decision tree models training on the historical data in designing the high-frequency turnover strategy and supported the sales for presentation to 20+ banks and individual customers with a final 50%+ yield

PROFESSIONAL EXPERIENCE

Data Analytics Intern, Google, New York, the United States **Aug.2024 to Present**

- Achieving 90% accuracy in internal supply chain management and external quarterly rolling forecasts for online-to-offline(O2O) cash flow: set constraining parameters, including lead times and capacity, and built deep learning models on feature engineering, including K-means and Recency-Frequency-Monetary (RFM) classification from member spending habits and demographic characteristics
- Won 23% business traffic increase after applying HTML and JavaScript for product promotion design and using sentiment analysis under the Multimodal Perception to provide music healing recommendations for participants

Investment Engineering Intern, KKR(Kohlberg Kravis Roberts), Shanghai, China **Jan. to May 2022**

- Proposed 8 key purchasing personas for expansion strategy from over 10 million records by Data Governance Causal Inference Model and crafted linked dashboard visualization using PowerBI, Thinkcell, Matplotlib, and Seaborn(Python) to translate the database's raw input into actionable insights for the built asset demand of PE team
- Boosted efficiency by 30% through designing pre-contract cost and data survey to collect information and applied data integration, and optimized ETL workflows on BigQuery stack and achieved R-square score 0.8+ by using the User-Collaborative Filtering (CF) algorithm to cluster similar variables before presenting using the formal documentation

Business Analysis Intern, ByteDance, Shanghai, China **June. to Sep. 2021**

- Received 90%+ external positive feedback from customers for procurement & sourcing and facilitated internal cross-departmental collaboration by translating cash from product, legal, and execution teams into data quality rules
- Conducted SPSS's AB tests and Matlab's moving window processing models on the K12 Education Series
- Led the start-up tech team to increase potential customers to 3w by designing the Entity Relationship Diagram(ERD) framework and held weekly calls and meetings on technical challenges and discussions with sponsors and stakeholders

Quantitative Research Intern, E Fund (the Largest Chinese Mutual Fund), Guangdong, China **Feb. to June 2021**

- Automate the cleaning pipelines to decrease the time waste to 0.001 seconds: developing one C++ scrapping package to download public liquidity asset data automatically through authorized API and scrubbed unstructured data from over 1000 listed companies and 3000 survey questions by Excel VBA (Office Visual Basic Application) iteration model
- Cut the commission fee by 10% by building a Weighted Least Squares Regression Model from scratch on the Profit and Loss and writing testing scripts on cost control for natural assets and pattern prediction for allocation operation

Data Science Intern, Boston Consulting Company, Beijing, China **Jan. to May. 2020**

- Improved the decision-making efficiency for clients by conducting industry/financial/comparable/market analysis for submitting the final 52 pages of PowerPoint slides as a market entry feasibility report and analyzing multi-dimensional and multivariate tagged data including 20 user indicators(e.g. administrative expense, beta ratio, and click rate)
- Refined the detailed analysis by data mining(Pandas of Numpy) on rural adolescents and rewrote the procedure automation file with Markdown(LaTeX) by defining the solution scope with the company's 5 benchmarking products