

Zhang Tianyi

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EDUCATIONAL BACKGROUND

Jilin University

Major: Communication Engineering

09/2021-06/2025

Degree: Bachelor's Degree

Average Score: 86.17/100 (Rank: 54/286)

Minor: Finance

09/2022-06/2024

Degree: Bachelor's Degree

SCIENTIFIC PROJECTS

National University of Singapore (Summer Program)

07/2023

Data Analytics and Mathematical Statistics

Research Content: Analysis of the relationship between PM2.5 and PM10 in different regions of Germany using mathematical modelling based on the WHO database

- Presentation Group 1st; Individual A Distinction and recommended by Prof. Dr. Edmund Low; Recognised in Jilin University's internal notification

The Chinese University of Hong Kong

01/2023

Digital Finance/ Big Data and Artificial Intelligence in Fintech Applications

Research Topic: *Unleashing NFT Liquidity with DeFi - Current State of NFTFi Translation*

Research Content: Analysis approaches to solving liquidity problems in the NFT market through DeFi technology, explore the four main paths of NFTFi (lending, derivatives, fragmentation, leasing) and their current status of development, with a focus on the success of the Blend protocol and its impact on the NFT market

- Earned an A+ and received a recommendation from Prof. Jing Wu for outstanding research performance

The 2nd International Conference on Digital Economy and Management Science (CDEMS 2024)

04/2024

Research Paper: *Unleashing NFT Liquidity with DeFi - Current State of NFTFi Translation*

- The paper was accepted and indexed by CPCI, CNKI, and Google Scholar

Central University of Finance and Economics

02/2023-04/2023

Blockchain and Metaverse Digital Economy Development Research

Research Topic: *A Supply Chain Management Framework Based on Blockchain and Federated Learning*

Research Content: Explore how to combine the decentralized nature of blockchain and the privacy protection mechanism of federated learning to build a secure and efficient supply chain management framework for data sharing and collaborative optimization to enhance supply chain transparency, data privacy and overall operational efficiency

- Received an A and a recommendation from Prof. Weiyu Gu

Jilin University

Undergraduate Innovation and Entrepreneurship Project

05/2023-06/2024

Research Topic: *Analysis of the interactions between the three markets of gold, crude oil and stock indices based on the NRI model*

Research Content: Using the NRI model to analyze the dynamic relationship between the three major markets of gold, crude oil and stock indices, to quantify their linkages in different economic cycles and events, to reveal the transmission mechanism of inter-market volatility and its implications for investment decision-making and risk management

Undergraduate Research Training Program

12/2023-06/2025

Research Topic: *Signal Type Recognition Algorithm Based on Deep Learning*

Research Content: Research on automatic classification and recognition of signal types using deep learning techniques, development and optimization of signal processing algorithms to improve the accuracy and recognition of different signals efficiency

Global Energy and Climate Governance Teaching and Research Platform Project

12/2023-06/2025

Research areas include energy policy, climate change adaptation and mitigation, and sustainable development impacts. Engaged in multidisciplinary research focusing on global energy transition and climate change governance. Provide policy recommendations to promote sustainable development and low-carbon economic transformation. Strengthen international cooperation with universities and research institutions to address climate challenges.

“Zhiyuan Plan” International Digital Education Course

Imperial College London: Prof. Björn Schuller03/2024-05/2024

Research Topic: *Artificial Intelligence Foundations* | Scored 95 (A+)

Research Content: How to train with ‘labelled’ examples so that machines can extract knowledge from data, find correlations, perform pattern recognition, and generate new data, helping to enable data analysis and intelligent applications

University of California, Los Angeles: Prof. Danijela Cabric10/2024-01/2025

Research Topic: *Wireless Communications System Design*

Research Content: Focuses on top-down wireless communication system design, covering digital communications, signal processing, modern radio design and applications and developments in 2G to 6G networks and IoT technologies

INTERNSHIP EXPERIENCE

China Everbright Bank | Intern (Elite Practice Centre)02/2023

- Awarded as Outstanding Intern and received a recommendation letter from the bank manager
- Involved in field visits and analyses of banking business processes to gain an in-depth understanding of the operational mechanisms and market dynamics of financial services
- Assisted in completing data collection and analysis to provide decision support to the department and enhance project execution efficiency
- Participated in team discussions and made optimisation suggestions to improve customer service quality and enhance customer experience
- Attended training courses to enhance financial knowledge and professional skills, teamwork and communication skills

China Merchants Bank | Intern of Information Technology Department01/2024-02/2024

- VBA Programme Development: Developed and maintained VBA-based automation programmes to improve the efficiency of daily workflow and reduce manual errors
- Branch Honor System Development: Participated in the design and implementation of the branch honor system, formulated evaluation criteria and incentives to enhance staff motivation and teamwork based on blockchain technology and NFT
- Code Optimization: Adopted best practices and design patterns to improve code readability and maintainability and provided support for team development; Implemented data backup and recovery strategies to reduce the risk of data loss and improve system stability
- Database Maintenance and Management: checked and updated the database regularly to ensure data integrity and accuracy

EXTRACURRICULAR ACTIVITY

Jilin University Quantitative Investment Association09/2023-06/2025

Position: *Head of Research Department*

Responsibility and Attainment Involved:

- Organized academic research on securities investment and quantitative trading, including model building, strategy research, and risk management

HONORS & REWARDS

University Third-Class Scholarship2023-2024

University Third-Class Scholarship2022-2023

University Third-Class Scholarship2021-2022

OTHER INFORMATION

IT Skills:
Proficient in programming languages including C, C++, R Language, Java, Python, SQL, and Matlab; Experienced with Hadoop, data analysis, and visualisation; Mastered PyTorch and had practical experience

Language Skills:
IELTS: 6.5 (W: 6, R: 7.5, L: 6, S: 5.5)30/07/2024