

# CHENKAI WANG

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## WORK EXPERIENCE

**Southern University of Science and Technology, China** Sep. 2024 - Now  
Research Assistant, Supervisor: Prof. Peng Yang Department of Computer Science and Engineering

## EDUCATION

**Southern University of Science and Technology, China** Sep. 2022 - Jul. 2024  
M.S. in Mathematics (**with distinction**) GPA: 88.6/100  
Supervisor: Prof. Peng Yang Department of Statistics and Data Science

**Southern University of Science and Technology, China** Sep. 2017 - Jul. 2022  
B.S. in Statistics GPA 3.03/4.00 (Last Year: 3.82/4.00, Last Semester: 3.92/4.00)  
Supervisor: Prof. Yifang Ma Department of Statistics and Data Science

## PUBLICATIONS

### Article (as the first author)

**Wang, C.**, Ren, J., & Yang, P. (2025). Alleviating Non-identifiability: a High-fidelity Calibration Objective for Financial Market Simulation with Multivariate Time Series Data. *IEEE Transactions on Computational Social Systems*. <https://doi.org/10.1109/TCSS.2025.3574236>

### Articles (as a middle author)

Yuan, X., Shang, Z., Wang, Z., **Wang, C.**, Shan, Z., Qi, Z., Zhu, M., Bai, C., & Li, X. (2025). Preference Aligned Diffusion Planner for Quadrupedal Locomotion Control. *IROS 2025*.

Zhao, J., Zhang, C., **Wang, C.**, & Yang, P. (2025+). Learning from Expert Factors: Trajectory-level Reward Shaping for Formulaic Alpha Factors Mining. *Submitted to IEEE Transactions on Signal Processing, Under Review*.

Yang, P., Yang, Z., Jiang, B., **Wang, C.**, Tang, K., & Yao, X. (2025+). Evolutionary Dynamic Optimization as an Online Calibrator for Complex Simulations. *In Preparation*.

## HONORS AND AWARDS

**Outstanding Graduates honor, SUSTech** 2024

**Outstanding Graduate Student, SUSTech** 2024

**Excellent Student Cadre, SUSTech** 2023

**National Encouragement Scholarship, SUSTech** 2020, 2021

**Provincial Second Prize in Chinese Mathematics Competitions, Chinese Mathematical Society** 2021

**Provincial Third Prize in Chinese Mathematics Competitions, Chinese Mathematical Society** 2020

## PROJECTS

### Advanced Network Science Project and Homework

Sep. 2022 - Jan. 2024

*Individual Homework and Project, Prof. Yanqing Hu*

Shenzhen

- Page Rank and Spam Farm in Graphs [HW 1 & 2].
- Small World Phenomena and the Greedy Algorithm [HW 3].
- ER Network and Giant Component [HW 4].
- Community Structure, Spectral Analysis, and its Generalization [HW 5].
- Added constraints to Jon Kleinberg's network model, proved the corresponding expected delivery time, and implemented a greedy algorithm in Python to validate results [Final Project].

## INVITED TALKS

“High-Fidelity Calibration of Financial Market Simulation with Multivariate Time Series Data”

–*UltraQuant Investment (Private Equity Fund, RMB ¥3B+ AUM), Shenzhen*

June 25, 2025

## TEACHING ASSISTANTS

### Southern University of Science and Technology:

MA212: Probability and Statistics, 2023 Spring, rated excellent by the lecturer: Prof. Guoliang Tian

MA204: Mathematical Statistics, 2023 Spring, rated excellent by the lecturer: Prof. GABRIELLE JING

STA217: Introduction to Data Science, 2024 Fall, rated excellent by the lecturer: Yifang Ma

## MISCELLANEOUS

**Languages:** *English:* Fluent, TOEFL (83)    *Chinese (Mandarin):* Native

**Computational Skills:** Python, MATLAB, L<sup>A</sup>T<sub>E</sub>X.

**Interests:** Movies, Reading, Basketball, Running, Voluntary Activity (more than 80 hours).