# 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

2020

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
${\bf Outstanding\ Graduate\ Student},\ SUSTech$	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

#### **PROJECTS**

#### Advanced Network Science Project and Homework

Sep. 2022 - Jan. 2024

Individual Homework and Project, Prof. Yanqing Hu

Shenzhen

- Designed, analyzed, and proved the manipulation of PageRank by spam farms [HW 1 & 2].
- Simulated greedy routing on Kleinberg Model to evaluate clustering exponent impact [HW 3].
- Analyzed component sizes, giant component dynamics, and phase transitions [HW 4].
- Proposed a three-community detection method using recursive spectral bisection [HW 5].
- Proved and verified delivery time bounds in constrained Kleinberg Model [Final Project].

## INVITED TALKS

"High-Fidelity Calibration of Financial Market Simulation with Multivariate Time Series Data"  $-UltraQuant\ Investment\ (Private\ Equity\ Fund,\ RMB\ \cupeges 3B+\ AUM),\ Shenzhen$  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, LATEX.

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