

# BOWEN ZHANG

Guangzhou, China

☎ 133-8790-6909 ✉ [zhangbw0102@gmail.com](mailto:zhangbw0102@gmail.com) 🌐 <https://01Zhangbw.github.io/>

## Education

**South China University of Technology**

**Sep 2021 – Jun 2025**

*Bachelor of Software Engineering, GPA:3.85/4.0 (90.42/100.0, Top 8%, Excellent Engineer Class)*

*Guangzhou*

## Relevant Coursework

- Mathematical Analysis
- Machine Learning
- Discrete Mathematics
- Data Mining
- Linear Algebra
- Deep Learning
- Data Structures
- Database System

## Honors and Awards

- **National Scholarship** (0.2% nation-wide) 2022
- **Top Ten Excellent Student Models of SCUT (Only 10 students per year, Top 0.05% in SCUT)** 2023
- Top Ten Excellent Communist Party Members Nomination Award of SCUT (Top 0.02% in SCUT) 2024
- First Prize Scholarship of South China University of Technology (rank: 2/49) 2023
- **Finalist** of Mathematical Contest In Modeling (MCM, Top 0.17% international) 2023
- First Prize of Chinese Mathematics Competitions (CMC) 2022 and 2023 (twice)
- Gold Prize of National College Student Algorithm Design and Programming Challenge (Top 5% national) 2023
- First Prize of Guangdong Province College Student Computer Innovation Competition (Top 0.6%) 2024
- Second Prize of MathorCup College Mathematical Modeling Challenge 2023

## Experience

**Machine Learning and Data Mining Lab (advised by Qianli Ma)**

**Oct 2023 – Present**

*Research Intern*

*School of Computer Science, SCUT*

- Mainly focused on research in data mining and time series modeling, especially time series forecasting and classification.
- Researched on Mixture-of-Experts and multi-scale modeling in time series problems (will be submitted to ICLR25).
- Researched on irregular time-series forecasting and Graph Neural Network (will be submitted to AAAI25).
- Understood graph learning and spatio-temporal data mining, including graph neural network, GCN, GAT, etc.

**CityMind Lab (advised by Yuxuan Liang)**

**May 2024 – Present**

*Research Intern*

*Hong Kong University of Science and Technology (Guangzhou)*

- Researched on time-series analysis and spatio-temporal data mining, especially foundation models.
- Involved in one paper's work on non-parameter embedding on foundation model (will be submitted to ICLR25).

**Key Laboratory of Big Data and Intelligent Robot (advised by Yi Cai)**

**Mar 2023 – Present**

*Research Intern*

*School of Software Engineering, SCUT*

- Researched on natural language processing and LLM, engaged in practical research on models, ChatGLM, etc.
- Finished the project "WiseSight: AIGC-based Smart Glasses for Elderly Life Assistance". This project has won the First Prize of National College Students' Software Innovation Competition (South China) and National Second Prize.
- Researched on LLM hallucination and RAG technology, developing the project "Natural Language Content Matching System Based on LLM". Responsible for work on search engine augmentation.

## Projects

**WiseSight: AIGC-based Smart Glasses for Elderly Life Assistance | Python**

**Oct 2023 – Present**

- Aimed at elders and adopted a Client-Server architecture, using ChatGLM as LM base and fine-tuning.
- It performed Intelligent Interaction, Assisted Reading, Item Searching and Emergency Assistance function modules.
- Developed object recognition and scenario recognition for Item Searching, utilizing object detection models, like detec.
- Wrote innovative project documents, software development documents, and software testing documents.

**Beyond Guessing: Data-Driven Exploration of Word Features and Relationships | Python,  $\text{\LaTeX}$**

**Feb 2023**

- Used ARIMA model to solve problems related to time-series analysis, determined ACF & PACF values and forecasted.
- Used the K-means clustering method to determine the difficulty level of the problem, TOPSIS entropy weight analysis.
- Utilized SPSS and Matlab for data preprocessing, analysis and visualization. Proficient in using  $\text{\LaTeX}$  to write paper.
- This paper received Finalist (Top 0.17%) in Mathematical Contest In Modeling. **[Paper Link]**

## Technical Skills

---

**Programming Languages/Software:** Python, C++, Java, Matlab, L<sup>A</sup>T<sub>E</sub>X, PyTorch, SQL, Linux

**English Level:** CET6: 512, CET4: 567

## Leadership / Extracurricular

---

**Monitor of class**

**Sep 2022 – Present**

*South China University of Technology*

- Led class to receive Top Ten Excellent Classes Nomination Award of South China University of Technology in 2023.
- Talented in Mathematical Analysis (Score: 98, rank: 1/124), received Excellent Auxiliary Volunteer.