

YUE WU

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EDUCATION

Southern University of Science and Technology, Shenzhen, Guangdong 09/2021 – 07/2025

Bachelor of Statistics, GPA: 3.80/4.00, Rank: 4/35

- **Main Courses:** Statistical Learning(98), Time Series Analysis(92), Operations Research and Optimization(90), Probability Theory and Mathematical Statistics(97), Statistical Computation and Software(91)

RESEARCH EXPERIENCE

Application of Deep Learning in Multi-Agent Financial Simulation **Research Assistance**

Supervised: Prof. Yang, Southern University of Science and Technology **07/2023-05/2024**

- **Model Building:** Developed a **transformer-based autoencoder** with a novel calibration method, improving multi-agent LOB financial simulator's performance by over **50%**, and conducted comprehensive experiments with visualizations and **ablation studies** for model analysis.
- **Co-authored** a paper and submitted it to **NeurIPS**. [Preprint Link Here](#).

Personalized Summarization Graph with LLM **Research Assistance**

Supervised: Prof. Yan, Dartmouth College **06/2024-present**

- **Model Building:** Designed a **personalized graph summarization** algorithm using **LLM** with historical queries.
- **Contribution:** Conducted research on Knowledge Graph Reasoning algorithms and databases and utilized BERT Sentence Embedding to construct queries similarity graph and synthetic historical data.

Alzheimer's Disease Image Analysis **Research Assistance**

Supervised: Prof. Fan, Peking University Shenzhen Hospital **09/2023-02/2024**

- **Data Processing and Feature Engineering:** Utilized **Freesurfer** for image data processing and feature importance analysis via **RandomForest**, **DCSIS**, **XGBoost**, **Lasso**, etc.
- **Model Application:** Applied **LightGBM** and other models for binary classification on CU-MCI patients, with hyperparameter tuning via **Bayesian Optimization**, and an **ensemble strategy**, improving performance by over **16%**. Used **HDBSCAN** for clustering, feature identification, and analysis.

INTERNSHIP EXPERIENCE

LLM Training Data Quality Enhancement and Prompt Engineer **Intern Team Leader**

Supervised: Yipeng Cheng, xDAN AI **03/2024-06/2024**

- **Data Augmentation:** Expanded over 10 renowned datasets through data augmentation and diversification, guided by **WizardLM** and **DEITA** and other papers, utilizing advanced tools such as **Distilable** and **DataDreamer**. Quantitatively evaluated LLM data based on complexity and quality using **UltraFeedBack**.
- **Prompt Engineer:** Developed diverse prompts using **CoT**, **Few-shot In-Context** and other methods to enhance question variety and complete high-quality specific tasks with several LLM models.

HONORS & AWARD

- First Class (First Place) of the Merit Student Scholarship 2023
- iGEM International Competition Gold Medal 2023
- First Prize in the China Undergraduate Mathematical Contest in Modelling 2023
- Second Prize in The Chinese Mathematics Competitions 2021
- Student Cadre Model of Excellence(Top 8 at the university level) 2023

SKILLS & LANGUAGES

Computer Skills: Python, Java, R, SAS, Hadoop, Spark, Pytorch, Linux, Latex

Language: Native in Chinese, Proficient in English(TOFEL 91).