Qiucheng Chen

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EDUCATION

Tianjin University, China

Bachelor of Computer Science and Technology Aug 2022 – Expected Jul 2026

- **Relevant Coursework:**
  - Probability Theory and Statistics (*100/100*);
  - Linear Algebra (94/100);
  - Advanced Mathematics (*90/100)*;
  - C++ Programming Principles (*96/100*);
  - Computer System Practice (*94/100*);
  - Disposable Mathematics B (*91/100*);
  - Parallel Computing (*92/100*)
  - Physics B (*91/100*)
  - Experiment of Physics A (*92/100*)
  - Experiment of Physics B (*91/100*)
- **Honor and Award:**
  - National Excellence Scholarship, 2023 (awarded to the top 5% of students)
  - Outstanding Student of Sunshine Sports Initiative, 2023 (awarded to the top 1% of students)
  - Liu Bao Scholarship, 2022 (awarded to the top scoring student in the National Entrance Exam from each province, representing the top 0.6% of students)

EXPERIENCE

College of Intelligence and Computing, Tianjin University

- LMc (Language and Mind computing) Lab with Dr. Bo Wang

  Apr 2024 - Expected Jul 2026
  - Upgraded a counseling chatbot by integrating graph-based structures and sentiment analysis into the LLM
  - Resolved response errors in the academic advising chatbot by updating 300+ outdated examples with current data and adding a validation layer to ensure alignment with verified academic policies
  - Conducted two key experiments in a human-computer interaction (HCI) project: analyzed decision-making through the Prisoner's Dilemma with LLM and human participants, and assessed loneliness to find alleviation strategies
  - Performing research on Knowledge Graph LLMs and hallucination reduction, and developing review papers on these topics
- Data Driving Failure Diagnosis Project, with Dr. Yu Wang, funded by City of Tianjin

  Apr 2024 – Expected May 2025
  - Co-authored an article titled "Foundation Models for Prognostics and Health Management in Industrial Cyber-Physical Systems: A survey and roadmap", awaiting submission
  - Developed a graph network model for multi-sensor correlation learning in gas turbine

systems to extract key fault features and improve detection accuracy
    - Applied causal inference methods to improve the clarity and the interpretability of the fault diagnosis model

- Tianjin Key Laboratory of Machine Learning with Dr. Ruonan Liu Aug 2023 – Apr 2024

    - Enhanced data analysis and integration with graph networks and causal inference to improve predictive maintenance and fault diagnosis for deep-sea devices, including drilling rigs and underwater robots
    - Performed comprehensive research and code reproduction on graph networks; work is accessible at Trouverecc (github.com)

LEADERSHIP & INVOLVEMENT

Double Innovation Center, Faculty of Intelligence and Computing, Tianjin University

Director of Science and Technology Association Aug 2023 - present

- Organizing lectures and discussions on recent computer science advancements, and creating bi-weekly WeChat updates to share research developments with a broader audience
- Supporting freshmen by offering personalized learning strategies and clarifying challenging concepts from their courses, helping them navigate their academic journey

Class Psychologist Sep 2023 – present

- Helping fellow students reduce stress by conducting surveys, discussing personal issues, and providing psychological support

SKILLS & INTERESTS

IT Skills: C++, Python, C, Java, System Verilog, HTML, SPSS, SQL

Research Interests: Knowledge-Enhanced LLM, Graph Neural Networks, Causal Reasoning, Hallucination Reduction

Language: IELTS 7.5 (L8.5, R7.5, W7.0, S6.0)

Interests: Swimming, Basketball, Badminton, Piano, Guitar, Zither, Painting