

Tengfei Cheng

Guangxi University ◇ Computer Science and Technology
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EDUCATION

Guangxi University

09/2022 - 06/2026 (*Expected*)

Bachelor of Engineering in Computer Science and Technology
School of Computer and Electronics Information

GPA: 3.42.

Key Courses: Probability and Mathematical Statistics (98), Advanced Mathematics I (97), Principles of Artificial Intelligence (90), Artificial Intelligence, Language, and Ethics (99), Object-Oriented Programming (91), Digital Circuits and Logic Design Practice (92), College English II (91), Data Structure Comprehensive Practice (90).

RESEARCH

Reasearch in Guangxi University

03/2024 - 09/2024

Advisor: Dr. Yunxuan Dong

- Investigated the extraction of two-dimensional features from time series data to address multi-periodicity in tidal energy datasets.
- Proposed a novel framework and conducted experiments for time series forecasting tasks.
- Authored a paper as the first author, which is under review in the journal *Engineering Applications of Artificial Intelligence* (EAAI).

PROJECTS

Enterprise Practical Training

10/2024 - 11/2024

Leader

- Independently developed applications and web pages using the SpringBoot + Vue framework.
- Led a team to integrate individual projects into a cohesive system.

National Undergraduate Training Program for Innovation and Entrepreneurship

05/2024 - Present

Team Member

- Participated in the project as a member.
- Responsible for implementing gesture recognition using computer vision technology within the team.
- The project obtained provincial-level project approval.

PAPERS

A Tidal Current Speed Forecasting Model Based on Multi-Periodicity Learning

Under Review in *Engineering Applications of Artificial Intelligence* (EAAI)

Authors: Tengfei Cheng, Yangdi Huang, Yunxuan Dong*.

arXiv preprint: arXiv:2410.09718.

AWARDS

Mathematical Contest in Modeling

Honorable Mention

Guangxi Division of China Undergraduate Mathematical Contest in Modeling

Second Prize

SKILLS

Programming

- Python (PyTorch, Optuna. etc.), L^AT_EX, Linux Shell, C/C++.

Software

- Remote SSH of Pycharm, Overleaf, Markdown, Microsoft Office.

Soft Skills

- Research Writing, Problem Definition, Critical Thinking.

EXTRACURRICULAR ACTIVITIES

Badminton

- 5th place in Men's Singles at the "Lotus Cup" Badminton Competition, Guangxi University.
- 1st place in the team event at the School of Computer and Electronic Information Badminton Competition.
- Certified Level-3 Referee by the Badminton Association of China.

College English Course

Study Commissary

- Facilitated teaching activities and supported classmates in academic needs.