

# Tengfei Cheng

Guangxi University ◇ Computer Science and Technology  
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## EDUCATION

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### 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

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### 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

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### 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

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### 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

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Mathematical Contest in Modeling

Honorable Mention

Guangxi Division of China Undergraduate Mathematical Contest in Modeling

Second Prize

## SKILLS

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### **Programming**

- Python (PyTorch, Optuna. etc.), L<sup>A</sup>T<sub>E</sub>X, Linux Shell, C/C++.

### **Software**

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

### **Soft Skills**

- Research Writing, Problem Definition, Critical Thinking.

## EXTRACURRICULAR ACTIVITIES

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### **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.