

CHENG Tao

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EDUCATION

Zhejiang University

B.Eng. in Computer Science and Technology (expected June 2027)

2023.09 — 2027.06

Hangzhou, Zhejiang

- **Cumulative GPA:** 4.76/5.00 | Rank 1 in major

• **Relevant Coursework:** Data Structures and Algorithm Analysis, Mathematical Modeling, Artificial Intelligence, Natural Language Processing, Computer Vision, Computer Graphics

- **Honors & Awards:**

- National Scholarship
- First-Class University Scholarship
- NITORI International Scholarship

PUBLICATIONS

DiffWind: Physics-Informed Differentiable Modeling of Wind-Driven Object Dynamics

ICLR 2026

5th Author

Accepted

PROJECT EXPERIENCE

SRTP: City-scale Multi-modal 3D Reconstruction & Weather Simulation

2025.04 — Present

Project Leader, Co-Author / National Level Research Grant

Hangzhou, Zhejiang

- **Led** the development of a city-scale 3D reconstruction framework integrating multi-modal data; secured National Level funding (top-tier) for its technical novelty and scalability.
- **Contributed** to research on dynamic object modeling and scene reconstruction; co-authored two papers: submitted to CVPR 2026 (2nd Author) and accepted by ICLR 2026 (5th Author).
- **Currently researching** robust physics-informed multi-modal 3D reconstruction.

CICSIC 2025 - "Zhi Lu": Autonomous Driving Edge-Case Simulator

2025.02 — 2025.08

Core Member (Documentation & Tech) / Provincial Bronze Medal

Hangzhou, Zhejiang

- **Collaborated** with a cross-functional team to develop an autonomous driving simulation startup project.
- **Authored** the technical white paper and business plan, synthesizing complex system architectures into clear, professional documentation.

"Shenzhen Cup" National Collegiate Mathematical Modeling Challenge

2024.04 — 2024.08

Team Leader / Second Prize (3rd Place Nationally)

Shenzhen, Guangdong

- **Developed** an optimization algorithm for sonic boom localization of rocket debris, enhancing positioning accuracy.
- **Led** a team of three to deliver high-quality technical reports, securing a 10,000 CNY prize for top-tier performance.

CAMPUS EXPERIENCE

HPC101: High-Performance Computing Workshop

2024.07 — 2024.08

Project-based Training

Hangzhou, Zhejiang

- **Mastered** cluster configuration, parallel computing, and **CUDA programming**.
- **Optimized** CPUBench on Kunpeng CPUs (PAC 2024) via compiler tuning and C/Fortran profiling.

Data Factor Markets Workshop

2025.06 — 2025.07

Selected Coursework & Implementation

Hangzhou, Zhejiang

- **Mastered** core concepts including Game Theory, MAB algorithms, and auction mechanism design for data assets.
- **Independently implemented** a database versioned pricing algorithm from the **QIRANA** (SIGMOD '17) paper, ensuring consistency and fairness in query pricing.

ZJU College of Computer Science and Technology Student Union

2024.10 — 2025.06

Staff, Technical Department

Hangzhou, Zhejiang

- **Managed** the official service website, optimizing system stability and user experience for **500+** college members.