

# CHENG Tao

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## EDUCATION

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|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Zhejiang University                                            | 2023.09 — 2027.06                                                                                                                                       |
| B.Eng. in Computer Science and Technology (expected June 2027) | 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

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|-----------------------------------------------------------------------------------------------------------------|---------------------------|
| DiffWind: Physics-Informed Differentiable Modeling of Wind-Driven Object Dynamics<br>5th Author                 | ICLR 2026<br>Poster       |
| PhysSkin: Real-Time and Generalizable Physics-Based Animation via Self-Supervised Neural Skinning<br>2nd Author | CVPR 2026<br>Under Review |

## PROJECT EXPERIENCE

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| SRTP: City-scale Multi-modal 3D Reconstruction & Weather Simulation<br>Project Leader, Co-Author / National Level Research Grant                                                     | 2025.04 — Present<br>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<br>Core Member (Documentation & Tech) / Provincial Bronze Medal                                                       | 2025.02 — 2025.08<br>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<br>Team Leader / Second Prize (3rd Place Nationally)                                                              | 2024.04 — 2024.08<br>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

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|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| HPC101: High-Performance Computing Workshop<br>Project-based Training                                                                                      | 2024.07 — 2024.08<br>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<br>Selected Coursework & Implementation                                                                                       | 2025.06 — 2025.07<br>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<br>Staff, Technical Department                                                                | 2024.10 — 2025.06<br>Hangzhou, Zhejiang |
| • Managed the official service website, optimizing system stability and user experience for 500+ college members.                                          |                                         |