

CHENG Tao

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EDUCATION

Zhejiang University <i>B.Eng. in Computer Science and Technology (expected June 2027)</i>	2023.09 — 2027.06 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none">• 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:<ul style="list-style-type: none">▸ National Scholarship▸ First-Class University Scholarship▸ NITORI International Scholarship	

PUBLICATIONS

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

PROJECT EXPERIENCE

SRTP: City-scale Multi-modal 3D Reconstruction & Weather Simulation <i>Project Leader, Co-Author / National Level Research Grant</i>	2025.04 — Present <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none">• 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 <i>Core Member (Documentation & Tech) / Provincial Bronze Medal</i>	2025.02 — 2025.08 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none">• 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 <i>Team Leader / Second Prize (3rd Place Nationally)</i>	2024.04 — 2024.08 <i>Shenzhen, Guangdong</i>
<ul style="list-style-type: none">• 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 <i>Project-based Training</i>	2024.07 — 2024.08 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none">• 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 <i>Selected Coursework & Implementation</i>	2025.06 — 2025.07 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none">• 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 <i>Staff, Technical Department</i>	2024.10 — 2025.06 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none">• Managed the official service website, optimizing system stability and user experience for 500+ college members.	