

# CHENG Tao

(+86)136-6257-1246 | Hangzhou / Shenzhen, China | [travischengzju@gmail.com](mailto:travischengzju@gmail.com) | <https://github.com/EmergentTwilight>

## EDUCATION

Zhejiang University	2023.09 — 2027.06
<i>B.Eng. in Computer Science and Technology (expected June 2027)</i>	<i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none"><li>• <b>Cumulative GPA:</b> 4.76/5.00   Rank 1 in major</li><li>• <b>Relevant Coursework:</b> Data Structures and Algorithm Analysis, Mathematical Modeling, Artificial Intelligence, Natural Language Processing, Computer Vision, Computer Graphics</li><li>• <b>Honors &amp; Awards:</b><ul style="list-style-type: none"><li>‣ National Scholarship</li><li>‣ First-Class University Scholarship</li><li>‣ NITORI International Scholarship</li></ul></li></ul>	

## PUBLICATIONS

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

## PROJECT EXPERIENCE

<b>SRTP: City-scale Multi-modal 3D Reconstruction &amp; Weather Simulation</b> <i>Project Leader, Co-Author / National Level Research Grant</i>	2025.04 — Present <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none"><li>• <b>Led</b> 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.</li><li>• <b>Contributed</b> to research on dynamic object modeling and scene reconstruction; co-authored two papers: submitted to <b>CVPR 2026 (2nd Author)</b> and accepted by <b>ICLR 2026 (5th Author)</b>.</li><li>• <b>Currently researching</b> robust physics-informed multi-modal 3D reconstruction.</li></ul>	

<b>CICSIC 2025 - “Zhi Lu”: Autonomous Driving Edge-Case Simulator</b> <i>Core Member (Documentation &amp; Tech) / Provincial Bronze Medal</i>	2025.02 — 2025.08 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none"><li>• <b>Collaborated</b> with a cross-functional team to develop an autonomous driving simulation startup project.</li><li>• <b>Authored</b> the technical white paper and business plan, synthesizing complex system architectures into clear, professional documentation.</li></ul>	

<b>"Shenzhen Cup" National Collegiate Mathematical Modeling Challenge</b> <i>Team Leader / Second Prize (3rd Place Nationally)</i>	2024.04 — 2024.08 <i>Shenzhen, Guangdong</i>
<ul style="list-style-type: none"><li>• <b>Developed</b> an optimization algorithm for sonic boom localization of rocket debris, enhancing positioning accuracy.</li><li>• <b>Led</b> a team of three to deliver high-quality technical reports, securing a 10,000 CNY prize for top-tier performance.</li></ul>	

## CAMPUS EXPERIENCE

<b>HPC101: High-Performance Computing Workshop</b> <i>Project-based Training</i>	2024.07 — 2024.08 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none"><li>• <b>Mastered</b> cluster configuration, parallel computing, and <b>CUDA programming</b>.</li><li>• <b>Optimized</b> CPUBench on <b>Kunpeng CPUs</b> (PAC 2024) via compiler tuning and C/Fortran profiling.</li></ul>	
<b>Data Factor Markets Workshop</b> <i>Selected Coursework &amp; Implementation</i>	2025.06 — 2025.07 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none"><li>• <b>Mastered</b> core concepts including Game Theory, MAB algorithms, and auction mechanism design for data assets.</li><li>• <b>Independently implemented</b> a database versioned pricing algorithm from the <b>QIRANA</b> (SIGMOD ‘17) paper, ensuring consistency and fairness in query pricing.</li></ul>	
<b>ZJU College of Computer Science and Technology Student Union</b> <i>Staff, Technical Department</i>	2024.10 — 2025.06 <i>Hangzhou, Zhejiang</i>
<ul style="list-style-type: none"><li>• <b>Managed</b> the official service website, optimizing system stability and user experience for <b>500+</b> college members.</li></ul>	