

Yang Yang

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Education

Sichuan University <i>B.Eng in Mechanics</i> ◦ GPA: 3.83/4.0 (90.31/100)	<i>Chengdu, China</i> <i>Sep 2021 – Jun 2025</i>
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Experience

The Chinese University of Hong Kong <i>Research Assistant, advised by Hongliang Ren</i>	<i>Hong Kong, China</i> <i>Oct 2024 – May 2025</i>
Tsinghua University <i>Summer Research Intern, advised by Wenbo Ding</i>	<i>Shenzhen, China</i> <i>Jun 2024 – Aug 2024</i>
Shanghai Jiao Tong University <i>Summer Research Intern, advised by Daolin Ma</i>	<i>Shanghai, China</i> <i>Jun 2023 – Aug 2023</i>
Sichuan University <i>Teaching Assistant, advised by Hong Zhang</i>	<i>Chengdu, China</i> <i>Feb 2024 – Jun 2024</i>

Honors and Awards

Top 100 Undergraduate Students of Sichuan University	<i>2025</i>
Second Prize of Academic Scholarship at Sichuan University	<i>2024</i>
First Prize of Sichuan Mechanics Competition Individual Race	<i>2023</i>
First Prize of Sichuan Mechanics Competition Group Race (Leader)	<i>2023</i>
First Prize of Academic Scholarship at Sichuan University	<i>2023</i>
Outstanding Students of Sichuan University	<i>2023</i>

Publications

Vitire: A Bimodel Visuotactile Tire with High-Resolution Sensing Capability
 Shoujie Li[†], Jianle Xu[†], Tong Wu, **Yang Yang**, Yanbo Chen, Xueqian Wang, Wenbo Ding, Xiao-ping Zhang
 IEEE Transactions on Mechatronics, [10.1109/TMECH.2025.3566394](https://doi.org/10.1109/TMECH.2025.3566394)

Three-dimension Tip Force Perception and Axial Contact Location Identification for Flexible Endoscopes using Tissue-compliant Soft Distal Attachment Cap Sensors
 Tao Zhang[†], **Yang Yang**[†], Yang Yang, Huxin Gao, Jiewen Lai, Hongliang Ren
 International Conference on Robotics and Automation (ICRA 2025), Accepted

Machine Learning-and Finite Element-Based Temperature-and Rate-Dependent Plasticity Model: Application to the Tensile Behavior
 Bo Zhang, **Yang Yang**, Hao Wu, Yida Zhang, Quanyi Wang, Hong Zhang, Yongjie Liu, Qingyuan Wang
 Journal of Materials Engineering and Performance, doi.org/10.1007/s11665-024-10167-5

A deep learning approach for low-cycle fatigue life prediction under thermal-mechanical loading based on a novel neural network model
Yang Yang, Bo Zhang, Hao Wu, Yida Zhang, Hong Zhang, Yongjie Liu, Qingyuan Wang
 Engineering Fracture Mechanics, doi.org/10.1016/j.engfracmech.2024.110239

Skills

Programming: C++, Python (Pytorch)

Platform/System: Finite Element Method, SolidWorks, MATLAB, Ubuntu, Linux, VS Code, Gazebo, ROS

Languages: Mandarin (Native), English (Fluent)