Yang Yang

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Website Linkedin Google Scholar

Education

University of Southern California — *Los Angeles, United States*
PhD in Mechanical Engineering — *Aug 2025 – Present*

Sichuan University — *Chengdu, China*
B.Eng in Mechanics with Honors — *Sep 2021 – Jun 2025*

- GPA: 3.83/4.0 (90.31/100)

Experience

The Chinese University of Hong Kong — *Hong Kong, China*
Research Assistant, advised by Hongliang Ren — *Oct 2024 – May 2025*

Tsinghua University — *Shenzhen, China*
Summer Research Intern, advised by Wenbo Ding — *Jun 2024 – Aug 2024*

Shanghai Jiao Tong University — *Shanghai, China*
Summer Research Intern, advised by Daolin Ma — *Jun 2023 – Aug 2023*

Sichuan University — *Chengdu, China*
Teaching Assistant, advised by Hong Zhang — *Feb 2024 – Jun 2024*

Honors and Awards

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

Publications

Conformable Vision-Based Tactile Sensor with Enhanced Soft Elastomer Design for Palpating Irregular Anatomical Surfaces

Yang Yang, Tao Zhang, Yupeng Wang, Wenchao Yue, Tangyou Liu, Hongliang Ren

International Conference on Biomimetic Intelligence and Robotics (ICBIR) 2025, Accepted

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, [Paper]

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), [Paper]

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, [Paper]

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, [Paper]

Skills

Programming: C++, Python (Pytorch)

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

Languages: Mandarin (Native), English (Fluent)