# Yang Yang

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Website Linkedin Google Scholar

## Education

**Sichuan University** *Chengdu, China*
*B.Eng in Mechanics* *Sep 2021 – Jun 2025*
- GPA: 3.81/4.0

## 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

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|---|---|
| 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

**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

**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, SoildWorks, MATLAB, Ubuntu, Linux, VS Code, Gazebo, ROS
Languages: Mandarin (Native), English (Fluent)