

Yang Yang

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Education

Sichuan University <i>B.Eng in Mechanics</i> ◦ GPA: 3.81/4.0	<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</i>	<i>Chengdu, China</i> <i>Feb 2024 – Jun 2024</i>

Publications

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

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

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

Honors and Awards

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

Skills

Programming: C++, Python (Pytorch)
Platform/System: Finite Element Method, SolidWorks, MATLAB, Ubuntu, Linux, VS Code, Gazebo, ROS
Languages: Mandarin (Native), English (Fluent)