

## EDUCATION

### •Jilin University

2021.9-now

*School of mechanical and aerospace engineering*

GPA and Percentage: 3.78/4, rank within top 5%

### •Tohoku University

2023.10-2024.8

*Exchange student, Robotics division*

Junior Year Program in English (JYPE program)

## RESEARCH EXPERIENCES

### •Micro Electro Mechanical Systems Lab; Tanaka Shuji Laboratory

2023.10-2024.8

*Exchange student, advisor: Professor Shuji Tanaka and Andrea Vergara*

Tohoku University

- **Oral presentation** on the 37th International Microprocesses and Nanotechnology Conference (**MNC 2024**)
- A paper to be published(conference recommended): **Yuan, Y.**; Vergara, A.; Tanaka, S. Feasibility study of layer separation using 2D patterned internal laser damage in silicon. *Japanese Journal of Applied Physics*
- Skilled in operation of clean room equipment: **Mask designing and fabrication, lithography, Deep RIE, Dicing, Laser machine; SEM, etc.**

### •Key Laboratory of CNC Equipment Reliability, Ministry of Education

2022.9-now

*Research assistant, advisor: Professor Hu Huang*

Jilin University

- National Undergraduate Training Program for Innovation and Entrepreneurship(NCSETP), **National Excellent Conclusion, Top 5%**, securing research funding of **10000yuan**
- Publish an utility model: The utility model relates to an ultrasonic vibration device for vibration assisted scratch testing, **Student first author**
- Published a paper: Huang, Y.; Wu, H.; **Yao, Y.**; Zhao, H.; Huang, H. An Ultrasonic Vibration Scratch Tester for Studying the Scratch Characteristics of Materials under Ultrasonic Vibration Contact Status. *Actuators* **2024**, 13, 262. <https://doi.org/10.3390/act13070262>

## TECHNICAL SKILLS

- Languages:** Native Mandarin; English: IELTS: 7.0 (6.5), CET4: 622, CET6: 559, GRE: 320; Basic Japanese
- Professional Software:** Proficient:Solidworks, Autocad; Have program experience: Catia; Ansys, Abaqus, Recurdyn; Matlab Simulink, Origin
- Basic Programming Skills:** Python (Deep learning), C#, L<sup>A</sup>T<sub>E</sub>X

## HONORS AND ACHIEVEMENTS

- National second prize-National University Students' Advanced Drawing Technology and Product Information Modeling Innovation Competition**
- Top 3%** in creating complex Mechanical drawing and proficient in CAD software 2022.8
- Provincial first prize -China College Students Engineering Practice and Innovation Ability Competition**
- Top 10%** in real design and fabrication of an alcohol driven auto-turning mini-car 2023.11
- **Jasso scholarship** -Japan government 2023.10-2024.8
- **First-class scholarship** -Jilin University 2023.11/ 2022.11
- **Excellent student** -Jilin University 2023.11/ 2022.11
- **Excellent student leader** -School of Mechanical and Aerospace Engineering, Jilin University 2022.11