

# Yuan Yao

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## 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(NCSIETP), **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