



# Chenhao Wu

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🎓 Pursuing a Bachelor of Science in Mechanical Engineering

🏛️ Shanghai Jiao Tong University    🏠 2003 08

Highly-motivated Senior in Mechanical Engineering (part of the Zhiyuan Honors Program) with a strong foundation in mathematics and physics. Skilled in programming languages such as Python, C, and Shell, with a keen interest in machine learning and robotics. Experienced in data analysis and modeling, and passionate about cutting-edge technologies in computer science and engineering. Proficient with Linux and ROS operating systems, with a solid understanding of system architecture and network technologies. Currently engaged in imitation learning tasks at JAKA.

For more projects I've worked on, please visit my personal website: <https://g-dab.github.io>

## 🔧 Competences & Languages

<b>Operating Systems</b>	🐧 Linux (6 years),
<b>Programming</b>	Python, C/C++, Shell
<b>Tools</b>	SSH, Git, Make, Vim
<b>Data Analysis</b>	pytorch, Keras, Matplotlib, Scikit-learn
<b>CAD Design</b>	Solidworks, Fusion360, Creo, UG
<b>Languages</b>	<b>English</b> – reading & writing (good); listening & speaking (conversant)

## 🎓 Education

September 2021	School of Mechanical Engineering, <b>Shanghai Jiao Tong University</b>
now	Bachelor in Mechanical Engineering

## 🔗 Projects

- **Development of a Digital Twin-based In-situ Wear Testing System:** Constructed an in-situ friction test machine using digital twin technology, and conducted tribological research on specimens of different materials on it. Awarded the National-level in College Students' Innovative Entrepreneurial Training Plan Program.
- **Bionic Frog:** Designed a bionic frog jumping robot, using a cam-spring energy storage mechanism, pursuing farthest jumping distance within a specified volume and weight, controllable via Wi-Fi or bluetooth.
- **Humanoid Robot Arm Design:** designed a 7DOF humanoid robot arm mechanical structure from scratch during the internship at JAKA.
- **Imitation Learning Based on ALOHA:** built a software frame work for Humanoid Arm Imitation Learning refer to the Mobile ALOHA project during the internship at JAKA. Underlying neural network framework used the Action Chunking Transformer.

## 🏆 Award

- Jan 2022, 5th Unmanned Aerial Vehicle Innovation Competition Intramurals, Second Prize.
- Jan 2022, 2022 Aircraft Design Challenge Intramurals, Third Prize.
- Aug 2022, "Cedar Cup" Mathematical Modeling Elite League.
- Nov 2022, 2022 Higher Education Press Cup National College Students Mathematical Modeling Competition, Second Prize in Shanghai City.
- Dec 2022, 8th National Undergraduate Physics Experiment Competition, National First Prize.
- Apr 2023, 2023 Shanghai Jiao Tong University Presidential Award.
- May 2023, The Mathematical Contest in Modeling (MCM/ICM), First Prize.
- Oct 2023, Shanghai Jiao Tong University "Outstanding Student".
- Oct 2023, Ruiyuan-Redwood Talent Development Scholarship.