

オウ イシン  
王 一臻

WANG Yizhen

Master | Mechanical Engineering | Hasegawa Lab, The University of Tokyo

✉ wang1zhen97@gmail.com 📞 080-8008-2338 📍 Tokyo, Japan  
🌐 blog.wang1zhen.com 🐙 github.com/wang1zhen 🔗 LinkedIn



## Education

### The University of Tokyo

Oct 2023 – Sep 2025

Master, Mechanical Engineering, Hasegawa Lab

Tokyo, Japan

- Automatic Optimization of Pulsating Waveform for Drag Reduction in Experiment of Turbulent Pipe Flow
- Master's thesis received the Award of Society of Automotive Engineers of Japan (JSAE)

### University of Melbourne

Jan 2019 – Dec 2019

Master, Mechanical Engineering (Withdrawn)

Melbourne, Australia

- Investigation of energetic motions in rough-wall turbulent boundary layers

### Shanghai Jiao Tong University

Sep 2014 – Sep 2018

Bachelor, Energy and Power Engineering; Minor in Musicology

Shanghai, China

- Dilution effects of DME and ethanol on methane flames
- Dynamic characteristics of hydrogen-cooled generator stator foundations

### Shanghai Experimental School

Sep 2011 – Aug 2014

High School

Shanghai, China

## Skills

- **Mechanical Engineering**  
Tools: SolidWorks, OpenFOAM, ANSYS  
Coursework: Advanced Heat Transfer, Numerical Thermofluid Engineering, Advanced Fluid Engineering, Numerical Methods
- **Electrical Engineering**  
Coursework: Circuit Theory, Visualization of PLC Control, Measurement Principles and Technologies, Instrumentation Concepts and System/Control Modeling
- **Machine Learning & Optimization**  
Methods/Coursework: Bayesian Optimization, Brain-Inspired Information Processing  
Mechanics, Neuro Intelligence
- **Miscellaneous**  
Programming: Python, MATLAB, C/C++, Emacs Lisp  
Tools: Microsoft Office,  $\text{\LaTeX}$   
Systems: GNU/Linux, openWRT, BSD

## Languages

- Mandarin Chinese: Native
- English: Native Level
- Japanese: JLPT N2 (CEFR B2, Business Level)

## Interests

- Classical Music: Amateur Violist
- PC DIY: Server Administrator
- Detective Novels and Science Fiction