

オウ イシン
王 一臻

WANG Yizhen

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

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Education

The University of Tokyo Master, Mechanical Engineering, Hasegawa Lab	Oct 2023 – Sep 2025 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University of Melbourne Master, Mechanical Engineering (Withdrawn)	Jan 2019 – Dec 2019 Melbourne, Australia
◦ Investigation of energetic motions in rough-wall turbulent boundary layers	
Shanghai Jiao Tong University Bachelor, Energy and Power Engineering; Minor in Musicology	Sep 2014 – Sep 2018 Shanghai, China
◦ Dilution effects of DME and ethanol on methane flames	
◦ Dynamic characteristics of hydrogen-cooled generator stator foundations	
Shanghai Experimental School High School	Sep 2011 – Aug 2014 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, L^AT_EX
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