

# Yaxuan Huang

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## EDUCATION

- 03/2021 - Present    **Technical University of Munich**  
M.Sc in Energy and Process Technology    GPA: 1.9  
Main Course: Optimization, Numerical Calculation, Machine Learning Application, Control Theory, Matlab, Heat and Mass Transfer, etc.
- 08/2012 - 07/2016    **Zhejiang University**  
B.Eng in Renewable Energy Science & Engineering    GPA: 2.2  
Main Course: Advanced Mathematics, Linear Algebra, Statistics, etc.

## ACADEMIC EXPERIENCE

- 09/2022 - 05/2023    **Semester Thesis: Open-Source Dynamic Digital Twin for Autonomous Driving.**  
Extract lane-level information from satellite images, including lane direction and topology.  
Analyzed and compared performance of computer vision methods, incl. segmentation, graph-based, transformer-based, and imitation learning.  
Improved the quality of the autonomous driving simulation environment for real-world road networks through integration with OSM using data fusion techniques.
- 11/2015 - 06/2016    **Bachelor Thesis: Study on Mercury Removal in Raw Mill.**

## WORKING EXPERIENCE

- 06/2022 - 11/2022    **CATL - Intelligent Manufacturing Department**    ----Intern  
Jointly responsible for the deployment of intelligent CCD-Camera detection equipment of automotive lithium battery production line.  
Error analysis for CCD camera systems and optimization of the decision logic.  
Supported vision algorithm optimization through statistics on the production data.
- 05/2017 - 03/2021    **Beijing Mooyee Technology Co., Ltd. (Startup)**    ----Co-founder & CTO  
Responsible for the technical research and patent application.  
Completed the research and development of the “Air Faucet-M1” & “Air Faucet-M2”.
- 07/2016 - 04/2017    **Tianjin Lishen Li-ion Battery Co., Ltd.**    ----R&D Engineer  
Responsible for the structural design of lithium-ion battery shell.

## LANGUAGE PROFICIENCY & SKILLS

- IT:** Python, MATLAB, C++  
Machine Learning, Deep Learning, Computer Vision
- Language:** Native Chinese, Fluent English (IELTS, 6.5), Fluent German (B2)
- Soft Skill:** Highly self-motivated, reliable, structured way of working, good communication skills