

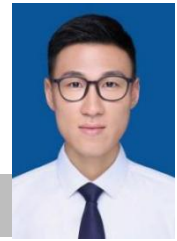
Yaxuan Huang

yaxuanhyx.huang@gmail.com

(+49) 176 4341 8089

Bahnhofstraße 8, 71672, Marbach, Germany

<https://yaxuan-7.github.io/>



EDUCATION

- 04/2021 - 03/2024 **Technical University of Munich**
M.Sc in Energy and Process Engineering GPA: 1.7
Focused Courses: Machine Learning, Matlab, Energy Engineering, Optimization, etc.
- 08/2012 - 07/2016 **Zhejiang University**
B.Eng in Renewable Energy Science & Engineering GPA: 2.2

ACADEMIC EXPERIENCE

- 09/2023 - 02/2024 **External Master Thesis in RNA Digital Solutions GmbH:**
Transformer-based Retrieval Algorithm for 3D Mechanical Parts.
Developed a semi-automatic algorithm to create a dataset of 33,000 CAD files
Created a Transformer-based Masked Autoencoder for self-supervised learning, achieving over 95% accuracy in 3D parts retrieval.
- 09/2022 - 05/2023 **Semester Thesis: Creation of a Lane Map for Self-Driving using Computer Vision.**
Implemented computer vision techniques to extract lane information from satellite imagery.
Conducted comparative analysis of various computer vision methods for lane detection.
- 11/2015 - 06/2016 **Bachelor Thesis: Study on Mercury Removal in a Raw Mill.**

PROFESSIONAL EXPERIENCE

- 06/2023 - present **RNA Digital Solutions GmbH** **----AI Engineer (Intern)**
Developed and refined 3D parts retrieval algorithms using Masked Autoencoders, enhancing system accuracy and efficiency.
Developed a commercial-ready web application, separating front-end and back-end functionalities, deploying neural network models on AWS, streamlining the workflow.
- 06/2022 - 11/2022 **CATL - Intelligent Manufacturing Department** **----Algorithm Engineer (Intern)**
Deployed intelligent CCD-Camera detection systems for lithium battery production lines.
Optimized vision algorithms using production data analysis, significantly reducing overkill rates by 30%.
- 05/2017 - 03/2021 **Beijing Mooyee Technology Co., Ltd. (Startup)** **----Co-founder & CTO**
Led R&D in atomization technology, achieving over 20 patent applications.
Oversaw the development of 'Air Faucet' water-saving products.
- 07/2016 - 04/2017 **Tianjin Lishen Li-ion Battery Co., Ltd.** **----R&D Engineer**
Designed and developed lithium-ion battery structures.

CORE COMPETENCIES & LANGUAGES

- Programming & Scripting:** Python, MATLAB, C++, HTML, CSS, JavaScript
- Specializations:** Machine Learning, Deep Learning, Computer Vision, Data Engineering
- Development&Deployment:** Git, SQL, RDBMS, Django, Flask, Node.js, React, AWS, Docker, Kubernetes
- Language:** Native in Chinese, Fluent in English (IELTS 6.5), Fluent German (B2)
- Soft Skills:** Self-Motivation, Team Work, Structured Work, Excellent Communication Skills