

# Zhaokun Yan

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🐙 @Jan

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## Self Assessment

personal description    📌 Enthusiastic, self-motivated, reliable, responsible and hard working person, a mature team worker and adaptable to challenge.






## Education

- 2020.10 – 2024.04    📌 **M.Sc. Medical Engineering and Assistance Systems(AI, machine learning), Technical University of Munich**  
Microsensors/Actuators, Computational Intelligence, Medical Augmented Reality, Deep Learning, Computer Vision, Cognitive Systems, AI in Production Engineering, Practical Course Software Engineering / C++
- 2015 – 2019    📌 **B.Sc. Vehicle Engineering, Taiyuan University of Technology**  
GPA 4.06/5.0, average grades 87.96/100, ranking 3/61



## Personal Projects

- 2023.06 – 2024.04    📌 **Master thesis - Learning Unitary Transformations based on reinforcement learning - Differentiable quantum architecture search algorithm**  
Use the differentiable quantum architecture search algorithm to realize the decomposition of unitary matrices, and conduct low-parameter and hyper-parameter experiments and tests(1,3).
- 2022.02 – 2022.07    📌 **Term project - Data Analysis on Extracted Image Features of Electrospinning Processes**  
developed dashboards to analyze the feature of electrospinning image series consisting of thousands of images and the type of dataset. meanwhile process the image with Matplotlib, Plotly Express.
- 2022.04–2022.07    📌 **computer vision challenge**  
Using Matlab to Realize Multi-angle Transformation of Image.
- 2022.02–2022.03    📌 **Laboratory - Development of Intelligent Distributed Embedded Systems in Mechatronics**  
Using IEC 61131-3, and UML, OCL, Petri net and model conversion for the overall development of intelligent control software for modular process units.
- 2021.10 – 2021.11    📌 **Using C++ to realize the 8-type circling of the car**
- 2020.10 – 2021.02    📌 **Interactive Sonification for Image-Guided Surgery**  
using Unity to build a simulation environment, then use C to realize the voice navigation during the operation.


## Internship

- 2024.03 – present     **Tsinghua University, - research assistant**, working under Group Prof. Bowen Zhou, focusing on izv, diffusion model, t2v and etc.
- 2024.02 – 2024.06     **Frontis, - Intern**, working at Multimodality Algorithm Group, responsible for try-on model and follow up on the latest Multimodality work like Opensora and recurrent their work.
- 2024.04 – 2024.06     **Huawei, - Intern**, working at Huawei WMTC Automation Laboratory, is responsible for the OPC part of lithography technology, and the OPC algorithm developed has been successfully applied to related software.
- 2023.10 – 2024.02     **Knorr-Bremse, - Data analysis as Working student.**  
Cost monitoring: Use Power BI to be responsible for data visualization, creation and maintenance of Dashboard.  
Product manual: Written using Excel's Macro, updated and versioned through Windchill.  
Department homepage management: Use SharePoint to maintain department homepages.  
Proficient in using svn, SAP and other database software
- 2019.07 – 2019.08     **Volkswagen Finance (China) Co., Ltd. - Intern**, working at Accounting and treasury back office, Responsible for assisting the accounting department in various tasks.

## Skills

- Languages     English, Germany, Chinese  
Coding     Python, Matlab, C++, C, LaTeX

## Awards and Achievements

- 2016-2023     1 A utility model patent (first inventor, authorized)  
2 Articles published in scientific journals of Taiyuan University of Science and Technology (first author)  
3 Taiyuan University of Technology: 2017-2018 Science and Technology Scholarship: 2016-2017, 2018-2019 Study Scholarship  
4 Supply Chain Fundamentals Study Certificate  
5 Matlab Image Processing Onramp Certificates  
6 Matlab Linear Algebra Certificates  
7 AWS Certified Cloud Practitioner