

EDUCATION

- **Shanghai University** 2016-2020
Mechanical Engineering Bachelor
- **RWTH Aachen University** 2020-2023
Robotic Systems Master

EXPERIENCE

- **Shanghai University Workshop** 2017.06-2017.09
Student Assistant Shanghai
 - Used Solidworks to make 3D models for the products
 - Improved mechanical structure to facilitate production
- **RWTH Institut für Allgemeine Mechanik (IAM)** 2019.10-2020.03
Research Assistant Aachen
 - Studied the physical properties of 3D printed metallic glasses
 - Used Avizo and micro-scanner to rebuilt the inside structure
 - Used Abaqus to simulate the fracture and compared it with the real fracture
- **Shanghai Solar Energy Research Center** 2020.07-2020.08
Production Management Shanghai
 - Studied the properties of solar panel materials for spaceflight
 - Helped to manage the production of solar boards
 - Used CAD and Solidworks to create models for solar boards
- **Machine Learning and Musculoskeletal Imaging (Uniklinik)** 2022.05-2022.11
Research Assistant Aachen
 - Used deep learning to predict the survival dates of patients with brain tumors
 - Used stable diffusion to train the chest x-rays and generate images with related diseases
 - Used vision transformers to classify the knee diseases and locate them

PAPERS

- **Medical Diagnosis with Large Scale Multimodal Transformers** 2022.12
Leveraged Diverse Data for More Accurate Diagnosis
- **Diffusion Probabilistic Models beat GANs on Medical Images** 2022.12
Compared the performance of two models on medical image processing
- **Medical transformer for multimodal survival prediction in intensive care** 2023.07
Recommended a robust combined model to do survival predictions
- **A multimodal comparison of latent denoising diffusion probabilistic models** 2023.07
Introduced Medfusion, a conditional latent DDPM designed for medical image generation
- **Medical Foundation Models are Susceptible to Targeted Misinformation Attacks** 2023.09
Demonstrated a concerning vulnerability of LLMs in medicine
- **Multimodal Deep Learning for Integrating Chest Radiographs and Clinical Parameters** 2023.10
Developed a neural network architecture capable of integrating multimodal patient data

TECHNICAL SKILLS AND INTERESTS

Languages: English, Chinese

Soft Skills: Python, CAD, Solidworks, Abaqus, Matlab, Avizo

Areas of Interest: biking, piano, table tennis

ACHIEVEMENTS

- **Outstanding volunteers in Shanghai** Teaching the disabled children 2017
- **Outstanding bachelor thesis** Topic with the 3D printing metallic glasses 2020
- **Top grade master thesis** Topic with using ViTs diagnosing diseases in knee 2023