

Susu Hu

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EDUCATION

Dresden University of Technology, Germany 2019 - 2023
Master of Science in Computational Modelling and Simulation GPA 2.1
Relevant coursework includes machine learning, computer vision, stochastic and probabilities, statistics, data visualisation.

Nanjing Agricultural University, China 2009 - 2013
Bachelor of Science in Logistics Engineering GPA 3.2/4.0
Granted with merit student scholarship. Relevant coursework includes computer science basics, natural science and engineering basics.

THESIS

Thesis Deep Learning for 3D Registration, NCT Dresden, Germany Oct 2022 - May 2023
• Implicit representation learning for non-rigid registration of 3D medical data

EXPERIENCE

Research assistant, NCT Dresden, Germany Oct 2022 - May 2023
• Weakly supervised medical image segmentation

Working student, Fraunhofer IPA, Stuttgart, Germany Apr 2022 - Sep 2022
• 2D few-shot object tracking
• Active learning for image labelling

Working student, Fraunhofer IPMS, Dresden, Germany Aug 2021 - Feb 2022
• Neural network quantization for software hardware co-design
• Explore with different architecture, topology and precision level

Working student, Robotron, Dresden, Germany Jun 2021 - Feb 2022
• Backend machine learning software development for computer vision tasks such as multi-object tracking for industrial quality control
• Research and evaluate existing methods for chosen tasks and implement with real-life dataset from customers and benchmark results

Project Management, Ford Motor Company, China 2016 - 2019
Supply Chain Specialist, BSH Home Appliance, China 2014 - 2016

PUBLICATIONS

Layer Sensitivity Aware CNN Quantization for CIM Architectures (not online yet)
2022 International Conference on Soft Computing & Machine Intelligence

SKILLS

Fluent in Python, machine learning frameworks (PyTorch, Keras, TensorFlow, scikit-learn, OpenCV, open3D, Huggingface etc.), Git, Linux. Familiar with C/C++, Docker, Microsoft Azure, SQL, blender, R. Basic knowledge of API.

LANGUAGES

English - C1, German - A2, Chinese - native speaker