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

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, bash, Linux. Familiar with Docker, Microsoft Azure, SQL, blender. Comfortable with C/C++, R. Basic knowledge of API.

LANGUAGES

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