

# 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 (especially 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