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

## THESIS

**AI for health,  DKFZ - NCT Dresden, Germany**                                    Oct 2022 - May 2023
- Neural fields for 3D reconstruction and non-rigid registration

## EXPERIENCE

**Research assistant, DKFZ - 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