

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.

EXPERIENCE

- Thesis Privacy Enhancing Technology in AI , Huawei, Munich, Germany** Oct 2022 - Mar 2023
• Develop algorithms for privacy-preserving machine learning
- Working student, Fraunhofer IPA, Stuttgart, Germany** Apr 2022 - Sep 2022
• 3D point cloud keypoints localization
• 2D few-shot object tracking and 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

PROJECTS

- Gaussian processes and neural networks** Sep 2020 - Mar 2021
Dresden University of Technology
• Studied Gaussian processes mathematical theories and implemented convolutional and non-convolutional Gaussian processes on image classification tasks with Python.
• Experimented with second derivative and first derivative optimization methods. Approximated posterior distribution via variational inference method (minimising KL-divergence) and exploited sparse Gaussian processes to improve computation efficiency.
- Tractography scientific visualisation** Apr 2020 - Sep 2020
Dresden University of Technology
• Studied techniques of tractography and implemented scalar and spherical colour mapping on brain fiber tracts based on diffusion measurement of free water in the brain with C++.

SKILLS

Fluent in Python (especially PyTorch, Keras, TensorFlow, scikit-learn, OpenCV, Pandas, etc.), Git, bash.
Familiar with Huggingface, Linux, Docker, Microsoft Azure, SQL. Comfortable with C++, R. Basic knowledge of API.

LANGUAGES

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