

HAOKUN CHEN

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EDUCATION

University of Munich (Munich, Germany) 11.2021 - 11.2024
Ph.D., Informatics
Supervisor: Prof. Dr. Volker Tresp (LMU) and Dr. Denis Krompaß (Siemens)
Research direction: Privacy-preserving Machine Learning in distributed systems (Federated Learning)

Technical University of Munich (Munich, Germany) 10.2018 - 10.2021
Master of Science (Major: Robotics, Cognition & Intelligence) GPA: 1.6/1.0

Tongji University (Shanghai, China) 10.2014 - 10.2018
Bachelor of Science (Major: Mechatronics) GPA: 4.2/5.0

EXPERIENCE

Ph.D. Student, Siemens AG (Munich, Germany) 11.2021 - Present
Conducting research in Federated Learning as well as its industrial applications.
Investigating Domain Generalization and Vision-Language Models in the context of Data Privacy.

Master Thesis, Siemens AG (Munich, Germany) 01.2021 - 10.2021
Thesis title: Data-Free Domain Generalization via Generative Multi-Teacher Knowledge Distillation
Completed with the highest distinction: 1.0.

Working Student, BMW Autonomous Driving Campus (Munich, Germany) 03.2020 - 11.2020
Implementation of test framework for vehicle computer vision functions.
Participating pre-development of computer vision project for object detection.

Internship, BMW Research Center (Beijing, China) 08.2019 - 12.2019
Validation of total vehicle software applications.
Visualization and processing of validation results via Visual Basic.

PUBLICATIONS

Haokun Chen, Yao Zhang, Denis Krompass, Jindong Gu, Volker Tresp.
FedDAT: An Approach for Foundation Model Finetuning in Multi-Modal Heterogeneous Federated Learning
AAAI Conference on Artificial Intelligence (AAAI), 2024.

Haokun Chen, Ahmed Frikha, Denis Krompass, Jindong Gu, Volker Tresp.
FRAug: Tackling Federated Learning with Non-IID Features via Representation Augmentation
International Conference on Computer Vision (ICCV), 2023.

Ahmed Frikha*, **Haokun Chen***, Denis Krompass, Thomas Runkler, Volker Tresp.
Towards Data-Free Domain Generalization
Asian Conference on Machine Learning (ACML), 2022.

Haokun Chen, Denis Krompass, Jindong Gu, Volker Tresp.
FedPop: Federated Population-based Hyperparameter Tuning
Under review, 2023.

Yao Zhang, **Haokun Chen**, Ahmed Frikha, Yezi Yang, Denis Krompass, Gengyuan Zhang, Jindong Gu, Volker Tresp.
CL-CrossVQA: A Continual Learning Benchmark for Cross-Domain Visual Question Answering
Under review, 2022.