### Zhiliang Wu

Email: Zhiliang.Wu@campus.lmu.de Phone: (+49) 017643325830 Citizenship: China

Homepage: https://zhiliangwu.github.io/

Research interests Machine learning, esp. representation learning, Gaussian processes

Uncertainty-aware clinical decision support

Education Ludwig Maximilian University of Munich Munich, Germany

Ph.D. in Machine Learning Nov. 2018 – Mar. 2022

Supervisor: Prof. Dr. Volker Tresp GPA: magna cum laude

**Technical University of Munich** 

Munich, Germany

M.Sc. in Automation and Robotics Oct. 2015 – Oct. 2018

Supervisor: PD. Dr. Martin Kleinsteuber GPA: 1.1

Tongji University

Shanghai, China

B.Sc. in Automation *GPA*: 1.4 Sep. 2011 – Jun. 2015

Honors and

Best Paper Award (IEEE ICHI)

2020 2018

2015

scholarships Graduation with high distinction (Technical University of Munich)

Scholarship for International Students (Technical University of Munich) 2016

The Outstanding Graduate (Tongji University)

**Publications** 

#### **Uncertainty-Aware Time-to-Event Prediction using Deep Kernel Accelerated Failure Time Models**

Zhiliang Wu, Yinchong Yang, Peter Fasching, Volker Tresp. *Machine Learning for Healthcare Conference & PMLR, 2021.* 

# Quantifying Predictive Uncertainty in Medical Image Analysis with Deep Kernel Learning

Zhiliang Wu, Yinchong Yang, Jindong Gu, Volker Tresp.

IEEE International Conference on Healthcare Informatics (ICHI), 2021.

## Learning Individualized Treatment Rules with Estimated Translated Inverse Propensity Score

Zhiliang Wu, Yinchong Yang, Yunpu Ma, Yushan Liu, Rui Zhao, Michael Moor, Volker Tresp.

IEEE International Conference on Healthcare Informatics (ICHI), 2020.

#### Introspective Learning by Distilling Knowledge from Online Selfexplanation

Jindong Gu, Zhiliang Wu, Volker Tresp.

Proceedings of the Asian Conference on Computer Vision (ACCV), 2020.

#### Categorical EHR Imputation with Generative Adversarial Nets

Yinchong Yang, Zhiliang Wu, Volker Tresp, Peter Fasching.

IEEE International Conference on Healthcare Informatics (ICHI), 2019.

Research experience Maschinelles Lernen mit Wissensgraphen (MLwin)

Supervisor: Prof. Dr. Volker Tresp (LMU Munich) Nov. 2018 – Jan. 2022

Research of state-of-the-art representation learning for uncertainty-aware

clinical decision support.

Collaboration with clinical experts from Uni-Klinikum Erlangen.

Publication of high-quality conference papers.

Integrating Uncertainty of Implicit Feedback in Recommender Sys-

tems

Supervisor: PD. Dr. Martin Kleinsteuber (TU Munich) Oct. 2017 – Mar. 2018

Research of the state-of-the-art Recommender systems.

PoC of internal recommender systems with the analytics team.

Completion of the master's thesis.

Teaching experience Student assistant, Institute for Cognitive System

Summer 2017

EI7478: Practical Course Humanoid RoboCup

Preparation of the tutorial for NAO Programming.

Projects coordination on LRZ-Gitlab.

Student assistant, Chair of Automatic Control Engineering Summer 2016

EI7303: Advanced Control and Robotics Lab

Kuka-Robot Programming.

Sequential movement definition and position online teaching.

Industry experience Siemens AG, CT RDA BAM MIC-DE Munich, Germany

Working student Summer 2018

API-Gateway Project: Online hosting ML algorithms with OpenAPI Specifica-

tion and Web services.

Coding for automatic testing, continuous integration and Docker containers.

Skills **Programming** 

Proficient in: Python (PyTorch, Tensorflow, etc.).

Familiar with: Matlab, C++.

Languages

Chinese (native), English (fluent), German (advanced)

Memberships Siemens Mentoring Program Sep. 2017 – Sep. 2018

Regular meetings with a Siemens mentor.

Hackathon at Siemens AI lab.