



Zhuang Kang



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ZhuangKang



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About me

Hello! my name is Zhuang Kang. I come from China and finish my master study in Germany. The focus of my study is optimization theory in deep learning. Specifically, I focus on regularization theory and model compression. I am very positive, independent and easy-going. In my free time I love playing billiards and swimming

Education

Universität Münster

M. Sc. Mathematics

Münster

10/2021 - Present

Sichuan University

B. Sc. Mathematics

Chengdu

09/2017 - 06/2021

Projects

Bregman semantic segmentation [Website](#)

3/2024-09/2024

Implementing a new optimizer with PyTorch.

Trained the l1-regularized U-Net to conduct semantic segmentation.

Object recognition with YOLOv8 [Website](#)

12/2023-01/2024

Preprocessed the image data with Roboflow.

Trained the YOLOv8m model for car recognition.

Blood Cell Cancer recognition with ResNet50 [Website](#)

12/2023-01/2024

Applied ResNet50 to image classification tasks, achieved 99% accuracy.

Skill

Computer skills

Programming Language: Python, SQL, Matlab

Software Engineering Skills: Git, DevOps & CI/CD, Docker

Cloud Platform: Azure

Languages skills

Chinese, English, German(TELC B2).

Honors and scholarships

Full-Grant scholarship of WWU Münster

10/2021-09/2023

The 2 year scholarship is awarded to exceptionally talented students selected by the Masters Admission Committee. 3 students were selected from 24 applicants.

Student service

Tutor of Numerical Optimization

04/2023-09/2023

Conducted exercise courses.

Reviewed and corrected exercise sheets and Python code.

Lectures

Machine Learning

Numerical optimization 1,0

Deep Neural Networks with PyTorch

Building Deep learning Models with TensorFlow

Advanced Numerical Methods and Applications 1,0

Mathematical Image Processing and Inverse Problems

Introduction to Computer Vision and Image Processing