



# Zhuang Kang



09 October 1999



z.kang1009@gmail.com



+49 1722365557



ZhuangKang



ZhuangKang

## About me

Guten Tag! I'm Zhuang Kang, a final-stage Master's student in Mathematics at the University of Münster. I specialize in image processing, optimization, and machine learning.

## Education

### Universität Münster

M. Sc. Mathematics

Münster

10/2021 - Present

### Sichuan University

B. Sc. Mathematics

Chengdu

09/2017 - 06/2021

## 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

## Projects

### Sparse U-Net with Bregman method [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

Preprocessed the dataset consists of 3000+ images, including cropping, clustering and segmentation.

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

## Technical strength

### Computer skills

PyTorch, Tensorflow, keras, openCV, Git, Roboflow, Azure, Docker

### 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 codes.