



# Zhuang Kang

Mathematics student



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Munich



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## Skills

Image processing:



Machine learning:



Python:



Matlab:



English: Working Proficiency



Chinese Mandarin: Native



German driver license:



(\*) [The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

## Education

2021-2024 M.Sc. University of Münster  
Mathematics

Münster

2017-2021 B.Sc. Sichuan University  
Mathematics and Applied Mathematics

Chengdu

## Awards

2021: Full-Grant scholarship of WWU Münster.

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

## Experience

2023.4-2023.9 Tutor of Numerical Optimization

Responsible for giving the exercise course and correcting exercise sheets.

2019.9-2020.08 President of SCU Association Union

Manager of 12 associations in SCU Mathematical institute and responsible for their activity approval, financial management and year-end review.

## Lectures

Lie groups 1,7

Machine Learning

Numerical optimization 1,0

Deep Neural Networks with PyTorch

Object oriented programming in C++

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

## Research projects

2023.4-2023.09 Computed Tomography and Bregman method

Summarized recent development in Computed Tomography and executed the numerical experiments of several image reconstruction algorithms.

2022.9-2023.2 Manifold optimization and its application in image segmentation.

Applied Manifold optimization theory to enhance the Active Contour model for image segmentation.

## about me

My background and experience affirm my proficiency as a valuable team player, adept at seamless collaboration, characterized by a strong, reliable, and easy-going personality.