

# Zhe CHEN

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## EDUCATION

University of Science & Technology Beijing (USTB), Beijing, China

August 2018 - July 2022

BSc. Applied Physics

Research Area: Large-Scale Image Retrieval, Optimization Algorithms

The University of Hong Kong, Hong Kong, China

August 2024 - December 2025

MSc. Innovative Design and Technology

Research Area: Multimodal LLMs, Multimodal LLMs' Hallucination

## TECHNICAL SKILLS

**Programming:** Python, C#, Linux, Matlab, Java, MySQL, Pytorch Lightning, JavaScript

**Software:** Matlab, Spyder, PyCharm, Jupyter Notebook, Visual Studio, Visual Studio Code, git, Ubuntu, LaTeX

**Personal Homepage:** <https://boris-jobs.github.io/>

## WORK EXPERIENCES

Ganzhou Hailian Architectural Survey and Design Co., Ltd

Ganzhou, China

Data Analyst

September 2022 – February 2023

- Tech Stack: Python, MySQL

Guangdong Wanyi Electronic Commerce Group

Foshan, China

Director of Data Analysis Team, Department of New Media Marketing

February 2023 – February 2024

- Accomplishments: Proposed "RPPL Data Analysis System", Increased advertisement ROI by 76.1% year-on-year
- Tech Stack: Python, MySQL, HTML, JavaScript, PowerBI

Huawei Technologies Co., Ltd

Suzhou, China

Software Development Engineer in Test (SDET), ICT Products and Solutions Department

February 2024 – May 2024

- Accomplishments: Contributed 1000+ lines of code to the testing framework; Passed 50+ installation and deployment-related test cases
- Tech Stack: Python, MySQL

## ACADEMIC EXPERIENCES

A Study on An Large-Scale Image Retrieval Algorithm Handling the Typical Hash Coding Constraints without NP-Hard

SRTP Team Leader, Supervised by Prof. Zhengwei SHEN

University of Science and Technology Beijing | September 2019 - June 2022

- Tech Stack: Matlab, Python
- Publication: A penalty function semi-continuous thresholding methods for constraints of hashing problems  
Qian Chen, Zhengwei Shen, Zhe Chen  
Journal of Visual Communication and Image Representation Volume 87, August 2022, 103552

A Study on The Robustness of Multimodal Large Language Models

Remote Research Intern, Supervised by Prof. Dr. Zitong Yu

Great Bay University | May 2024 - September 2024

- Tech Stack: Pytorch Lightning, Python, Matlab
- Publication: EPE-P: Evidence-based Parameter-efficient Prompting for Multimodal Learning with Missing Modalities  
Zhe Chen, Xun Lin, Yawen Cui, Zitong Yu  
2025 IEEE International Conference on Acoustics, Speech, and Signal Processing (Under Review)

A Study on The Hallucination of Multimodal Large Language Models

Remote Research Intern, Supervised by Prof. Dr. Zitong Yu

Great Bay University | September 2024 - Present

- Tech Stack: Pytorch Lightning, Python, Matlab

## HONORS & AWARDS

- Gold Medal in Folk Music Category, Beijing University Music Festival November 2018
- "Three Good" Student, USTB November 2019
- Two times 3<sup>rd</sup> Class of Renmin Scholarship, USTB May & November 2019
- 1<sup>st</sup> Prize, USTB Physics Academic Contest July 2020
- 2<sup>nd</sup> Prize, USTB Mathematical Contest October 2020
- Meritorious Winner, MCM/ICM (Mathematical Contest In Modeling/Interdisciplinary Contest in Modeling) April 2021