

WENZHENG 文政 ZHANG 張

PhD Student in Robotics Navigation

@ mailto:wenzheng.zhang.5u@stu.hosei.ac.jp
https://wenzheng-zhang.netlify.app

📍 Fuchu, Tokyo, Japan
📅 Nov, 1997



SKILLS

- Visual SLAM
- Industrial Software Development (MFC)
- Programming (C++, Python)
- ROS/ROS2
- VLA Model
- Isaac Sim / Gazebo

LANGUAGES

- Mandarin — Native
- English — B2
- Japanese — Advanced (N1)
- Korean — Elementary

HOBBIES

- Reading
- Sports
Soccer, Tennis, Cycling, Outdoors
- Music
guitar, piano, sing
- Bookstore strolling
- City walk

PROFILE

Wenzheng Zhang (張文政) is a **PhD student** at Hosei University, researching autonomous navigation using monocular cameras. His work focuses on topological mapping, visual SLAM, VLA models and efficient localization for **intelligent robotic navigation** systems.

Previously, he worked as a **C++ Software Engineer and Project Leader** at Beijing KuangYunTech Co., Ltd., developing engineering and visualization software using the MFC framework.

Combining software engineering experience with academic research, he aims to create lightweight, scalable, and robust visual navigation models for real-world robotic applications.

WORK EXPERIENCE

C++ Software Engineer (Team Leader)

Beijing KuangYunTech Co., Ltd.

📅 Jul 2020 – Apr 2022

📍 Nanjing, China

- Windows application development for projects and platforms based on MFC framework (C++ development).
- Development of engineering software; used CG technology.
- Encryption system development and parsing of file structures (.dgn, .dwg).

EDUCATION

PhD in Electrical and Electronic Engineering (Robotics Navigation Focus)

Hosei University

📅 Sep 2025 – Present

📍 Tokyo, Japan

Focused on topological mapping, Visual SLAM, and efficient localization.

- Improve accuracy and generalization of Visual SLAM.
- Topological Mapping and Navigation only with a Monocular Camera.
- General navigation model: Using VLA model with topological map to improve generalization of navigation.

Master in Electrical and Electronic Engineering

Hosei University

📅 Sep 2023 – Sep 2025

📍 Tokyo, Japan

- Topological Mapping and Navigation only with a Monocular Camera: Using VPR technology to achieve topological mapping and navigation for robot.
- Improve accuracy and generalization of navigation.

Bachelor in Geomatics Engineering

Shandong University of Science and Technology

📅 Sep 2019 – Jul 2023

📍 Qingdao, China

- Studied GNSS, surveying, GIS, and photogrammetry.