Ziren GONG

37 Xueyuan Road, Haidian District, Beijing, China
zirengong@buaa.edu.cn
(+86) 188 1103 5260

EDUCATION

Beihang University, China *(Projects 985&211, World Class Univ.)*   2020.09 – 2023.01

Master of Engineering, Traffic Information Engineering (World Class Discipline)   Supervisor: Prof. Guizhen Yu

- GPA: 3.838/4.000(Average Score: 91.29/100)   Rank: 18/126
- My research interests are 3D object detection, multimodal activity understanding and computer vision.

Wuhan University of Technology, China (*Projects 211, World Class Univ.*)   2016.09 – 2020.06

Bachelor of Engineering, major in Traffic Engineering

- GPA: 3.809/4.000(Average Score: 88/100)   Rank: 7/59
- Award: Excellent Graduate of WHUT, Scholarship of WHUT and etc.
- Awarded Second Prize in 14th National College Student Transportation Technology Competition.

Tohoku University, Sendai, Japan (*World Class Univ.)*   2018.06 – 2018.08

Exchange students

- Course: Transportation Design for Disaster Risk, comparative study and etc.
- Award: JASSO scholarship.

EXPERIENCE & INTERNSHIP

Laboratory Internship   2022.07-Now

Laboratory of CoRe, Peking Univ., Beijing

- Supervisor: Prof. Yixin Zhu   Director: Prof. Yaqin Zhang
- Working on Computer Vision Group to create a dataset to study activity understanding in BioLab and devise two challenging benchmarks, transparent solution tracking and multimodal action recognition.

Laboratory Research

Key Laboratory of Unmanned Transportation Technology, Beihang Univ., Beijing

- Supervisor: Prof. Guizhen Yu.
- Working on R&D Vision Science Group to develop a 3D object detection framework using roadside LiDAR to alleviate false alarms caused by complex backgrounds and multi-scale objects with limited features.

Enterprise Internship   2021.06-2022.06

Beijing Tage IDriver Technology Co., Ltd, Beijing

- Working on R&D Environmental Perception Group to apply a high robust and real-time object detection framework using roadside LiDAR, which is installed in Yongshun Mine, Ordos.
- Apply a LiDAR and GPS calibration method for road-vehicle fusion perception.

PUBLICATIONS & PATENTS

1. Jieming Cui*, **Ziren Gong***, et al. ProBio: A Protocol-guided Multimodal Dataset for Molecular Biology Lab[C], *Conference on Neural Information Processing Systems (NeurIPS)*, 2023 *(Co-first authors, Accepted)*.
2. **Ziren Gong**, Z Wang, et al. FecNet: A Feature Cascade and Enhancement Network for Real-time Roadside Object Detection[J]. *IEEE SENSORS JOURNAL*, 2023, *DOI:10.1109/JSEN.2023.3304623*.
3. **Ziren Gong**, Z Wang, et al. Pedestrian Detection Method Based on Roadside Light Detection and Ranging[J]. *SAE International Journal of Connected and Automated Vehicles*, 2021, *DOI: 4(12-04-04-0031)*.
4. Zhangyu Wang, **Ziren Gong**, et al. "A method and device for calibration of LiDAR and GPS for road-vehicle fusion perception", *Chinese Patent Office, CN202210275064.7*, Beihang Univ., 2022 *(Student First Author)*.
5. Guizhen Yu, **Ziren Gong**, et al. "A Lane Change Control Strategy for Expanding Highway Work Zone", *Chinese Patent Office, CN202110054207.7*, Beihang Univ., 2021 *(Student First Author)*.

LANGUAGES/SKILLS/OTHERS

Computer skills	C++, Python, Pytorch, TensorRT, Matlab, etc.
Languages	English (IELTS 6.5), Japanese (JLPT N2 level), Chinese (Native).
Hobbies	Basketball, Violin, Swimming, Photography.
Extra Activities	Played in the first violin in WHUT orchestra and won Province First Prize in 2017.

Referees

Guizhen Yu
Prof. in Beihang University
School of Transportation Science and Engineering
37 Xueyuan Road, Beijing, China
+86-13651164015
yugz@buaa.edu.cn

Peng Chen
Prof. in Beihang University
School of Transportation Science and Engineering
37 Xueyuan Road, Beijing, China
+86-13601049375
cpeng@buaa.edu.cn

Adrian Munteanu
Prof. in Vrije Universiteit Brussel
ETRO department
Pleinlaan 2, B-1050 Brussels, Belgium
+32-2-629.16.84
Adrian.Munteanu@vub.be