Zehan Zheng

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EDUCATION

Tongji University, China Sept. 2022 - Present
M.S.E. Student in Autonomous Driving, GPA: 4.7 / 5.0
Advised by Prof. Guang Chen

Tongji University, China Sept. 2017 - July 2022
B.E. in Vehicle Engineering (5 years), GPA: 4.5 / 5.0

RESEARCH EXPERIENCE

Research interests: 3D Computer Vision, Dynamic Reconstruction, Autonomous Driving Perception

Intelligent Sensing, Perception and Computing Lab (ISPC) 2022 - Present
Research Assistant, Advisor: Prof. Guang Chen *Tongji University, Shanghai*
- Research included: 3D Point Clouds, 4D Reconstruction, Neural Fields

OpenDriveLab, Shanghai AI Laboratory Dec. 2021 - June 2022
Research Intern, Advisor: Prof. Hongyang Li *Shanghai*
- Research included: 3D Laneline Detection in Autonomous Driving

Comprehensive Perception Research Group (CPRG) Mar. 2021 - Nov. 2021
Research Intern, Advisor: Prof. Wei Tian *Tongji University, Shanghai*
- Research included: Fish-eye Camera Calibration, Bird's Eye View (BEV)

PUBLICATIONS

Zehan Zheng, Danni Wu, Ruisi Lu, Fan Lu, Guang Chen, Changjun Jiang. **NeuralPCI**: Spatio-temporal Neural Field for 3D Point Cloud Multi-frame Non-linear Interpolation. In **CVPR**, 2023.

Li Chen*, Chonghao Sima*, Yang Li*, **Zehan Zheng**, Jiajie Xu, Xiangwei Geng, Hongyang Li, Conghui He, Jianping Shi, Yu Qiao, Junchi Yan. **PersFormer**: 3D Lane Detection via Perspective Transformer and the OpenLane Benchmark. In **ECCV**, 2022 (**Oral**).

Zehan Zheng, Fan Lu, Weiyi Xue, Guang Chen, Changjun Jiang. **LiDAR4D**: Dynamic Neural Fields for Novel Space-time View LiDAR Synthesis. *Under review*, 2023.

ACADEMIC SERVICES

- Reviewer: CVPR 2024, ECCV 2024 (invited)
- Invited Talk for Shanghai Computer Society (SCS) and China Society of Image and Graphics (CSIG)

HONORS & AWARDS

- Excellent Graduate of Tongji University 2022
- Outstanding Student of Tongji University 2018, 2021
- First Prize of Tongji University Scholarship (Top 2%) 2018, 2021
- National First Prize in Formula Student China Competition (FSC) 2020
- National Second Prize of China Undergraduate Mathematical Contest in Modeling (CUMCM) 2020

MISCELLANEOUS

Languages: Chinese (Native), English (Proficient)
Skills: Python, Pytorch, OpenCV, Open3D, MATLAB, C/C++, CATIA, Star-CCM+
Engineering Experience: Tongji University (Formula SAE) Racing Team sponsored by Lotus
Technical Leader & Driver & Aerodynamics Designer 2018-2021