

# 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, Weiye 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, CET6)

**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