

# JIACHEN ZHONG

E-mail: julightzhong10@outlook.com ◇ Website: julightzhong10.github.io

## PROFESSIONAL EXPERIENCES

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- **Algorithm Engineer** 6/2020 - present  
**SAIC Motor AI Lab**, Shanghai
  - Vision perception and machine learning algorithms for L2/3 ADAS, L4 Robotaxi, and DMS.
- **Graduate Student Researcher** 4/2019 - 6/2019  
**Cuneiform Digital Library Initiative at UCLA**, Los Angeles
  - Worked on error detecting functions of an open source CDLI ATF checker, PyOracc.
- **Software Engineer Internship** 6/2017 - 8/2017  
**NetEase**, Beijing
  - Worked on the backend of news web crawlers and automatic news push system.
- **Research Assistant** 6/2016 - 4/2018  
**UCLA-MPI Joint Research Center in Ubiquitous Computing**, Macao
  - Deep learning based social network fashion popularity analysis.
  - Real-time portable environmental monitoring system.

## PROFESSIONAL INTERESTS

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- **Autonomous Driving:** Vision perception solutions for production-level L2-L4 autonomous driving.
- **Machine Learning:** Multi-views(BEV) 3D vision perception, monocular 2/3D vision perception, camera modeling, unsupervised/self-supervised/representation learning, generative modeling, adversarial/robust machine learning, optimization.

## EDUCATION

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- **University of California, Los Angeles (UCLA)** 2018 - 2020  
Master of Science in Computer Science, GPA: 3.90/4.0  
Advisor: Prof. Cho-Jui Hsieh
- **Macao Polytechnic Institute (MPI)** 2014 - 2018  
Bachelor of Science in Computing, GPA: 3.64/4.0 (Top 1)  
Advisor: Prof. Rita Tse

## PAPERWORKS [\* INDICATES EQUAL CONTRIBUTION]

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- Yangyang Ding\*, Luying Huang\*, **Jiachen Zhong**. Multi-Scale Occ: 4th Place Solution for CVPR 2023 3D Occupancy Prediction Challenge. In *Tech report of CVPR 2023 Autonomous Driving Challenge*, 2023.
- Zijian Zhu\*, Yichi Zhang\*, Hai Chen, Yinpeng Dong, Shu Zhao, Wenbo Ding, **Jiachen Zhong**, Shibao Zheng. Understanding the Robustness of 3D Object Detection with Birds-Eye-View Representations in Autonomous Driving. In *Computer Vision and Pattern Recognition Conference (CVPR)*, 2023.

- Jianyong Ai, Wenbo Ding, Jiuhua Zhao, **Jiachen Zhong**. WS-3D-Lane: Weakly Supervised 3D Lane Detection With 2D Lane Labels. In *International Conference on Robotics and Automation (ICRA)*, 2023.
- **Jiachen Zhong**, Xuanqing Liu, and Cho-Jui Hsieh. Improving the Speed and Quality of GAN by Adversarial Training. arXiv preprint arXiv:2008.03364, 2020.
- **Jiachen Zhong**. Towards Fast and Stable GAN via Free Adversarial Training. Master Thesis, UCLA, 2020.
- **Jiachen Zhong**, Rita Tse, Gustavo Marfia, Giovanni Pau. Fashion Popularity Analysis based on Online Social Network via Deep Learning. In *International Conference on Digital Image Processing (ICDIP)*, 2019.

## PROFESSIONAL SKILLS

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- **Programming Languages:** Python, SQL, JavaScript & Node.js, Java, LaTeX
- **Packages & Tools:** PyTorch, MXNet, TensorFlow, Docker, Sklearn, Git

## HONORS, AWARDS AND CERTIFICATES

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| • 4th place in CVPR 2023 3D Occupancy Prediction Challenge                             | 6/2023      |
| • 3rd place in nuScenes vision track detection task using DAMEN method                 | 8/2022      |
| • IET Chartered Engineer (CEng)  | 2018        |
| • Henry Fok Foundation Scholarship   | 2018        |
| • The IET Prize 2018   | 2018        |
| • Nam Kwong Education Scholarship  | 2017        |
| • 2nd place in International ICT Innovative Services Awards                            | 11/2016     |
| • Bronze Prize in China Chuang Qing Chun College Students Entrepreneurship Competition | 5/2016      |
| • Bank of China Scholarship  | 2016        |
| • Macao Foundation Scholarship   | 2014 - 2018 |