# JIACHEN ZHONG

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## PROFESSIONAL EXPERIENCES

- **Algorithm Engineer**
  **SAIC AI Lab**, SAIC Motor, Shanghai                         *6/2020 - present*
  **IM Motors**, Shanghai                                        *6/2024 - present*

  - I work on production-level autonomous driving, specifically anything required for supporting workable data-driven solutions in perception and planning.

- **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 and real-time portable environmental monitoring system.

## EDUCATION

- **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)** (now **Macao Polytechnic University (MPU)**) *2014 - 2018*
  Bachelor of Science in Computing, GPA: 3.64/4.0 (Top 1)
  Advisor: Prof. Rita Tse

## PAPERWORKS [* indicates equal contribution]

- Pengyu Wang, Jianmin Li, Wenbo Ding, **Jiachen Zhong**, Jianyong Ai. Correcting Pseudo Labels in Semi Supervised Object Detection with SAM. To appear in *International Conference on Multimedia and Expo (ICME)*, 2024.

- Ziqi Yuan*, Liyuan Wang*, Wenbo Ding, Xingxing Zhang, **Jiachen Zhong**, Jianyong Ai, Jianmin Li, Jun Zhu. DualTeacher: Bridging Coexistence of Unlabelled Classes for Semi-supervised Incremental Object Detection. arXiv preprint arXiv:2401.05362, 2023.

- Yangyang Ding*, Luying Huang*, **Jiachen Zhong**. Multi-Scale Occ: 4th Place Solution for CVPR 2023 3D Occupancy Prediction Challenge. The 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

- **Programming Languages:** Python, SQL, C/C++, JavaScript & Node.js, Java, LaTex

- **Packages & Tools:** PyTorch, MXNet, TensorFlow, Docker, Sklearn, Git

## HONORS, AWARDS, CERTIFICATES, AND SERVICES

- **ICME Reviewer** *2024/2025*
- **4th place in CVPR 2023 3D Occupancy Prediction Challenge** *6/2023*
- **3rd place in nuScenes vision track detection task** [DAMEN method] *8/2022*
- **Industrial Advisor Committee at Faculty of Applied Sciences of MPU** *2020-present*
- **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*