JIACHEN ZHONG

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PROFESSIONAL EXPERIENCES

- **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

- **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, unsupervised/self-supervised/representation learning, generative modeling, adversarial/robust machine learning, optimization.

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

PAPERWORKS

- 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, JavaScript & Node.js, Java, LaTex
- **Packages & Tools:** PyTorch, MXNet, TensorFlow, Docker, Sklearn, Git

HONORS, AWARDS AND CERTIFICATES

- **Rank 3rd 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*
- **Second 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*