

Jiacheng Cheng

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EDUCATION

Ph.D. in Electrical and Computer Engineering 2018 – 2025
University of California San Diego (UCSD), La Jolla, CA

- Doctoral Committee: Nuno Vasconcelos (Chair), Nick Antipa, Nikolay Atanasov, Rose Yu

B.Eng. in Electronic Engineering and Information Science 2014 – 2018
University of Science and Technology of China (USTC), Hefei, China

EXPERIENCE

Yale University, EAS School of Engineering and Applied Science 2025 – Present
Postdoctoral Associate | Advisor: Prof. Tara Boroushaki

- Generative AI for Wireless Imaging

UC San Diego, Statistical Visual Computing Lab 2019 – 2025
Graduate Student Researcher | Advisor: Prof. Nuno Vasconcelos

- [ECCV'24, ICML'25] Visual Privacy Preservation
- [CVPR'22, CVPR'24] Probability Calibration of Deep Neural Networks
- [CVPR'21] Novelty Detection in Fine-grained Visual Classification

Adobe Research, Media Intelligence Lab 2022
Research Scientist Intern | Mentors: Dr. Fabian Caba Heilbron, Dr. Bryan Russell, Dr. Valentina Shin

- Research on Multimodal Learning and vision-language retrieval.

University of Sydney, UBTECH Sydney AI Centre 2017 – 2018
Visiting Student | Advisor: Prof. Tongliang Liu

- [ICML'20] Learning with Instance- and Label-dependent Label Noise

PUBLICATIONS

Peer-reviewed Conference Articles

1. Yijiang Li, Genpei Zhang, **Jiacheng Cheng**[†], Yi Li, Xiaojun Shan, Dashan Gao, Jiancheng Lyu, Yuan Li, Ning Bi, Nuno Vasconcelos. “EgoPrivacy: What Your First-Person Camera Says About You?”, To appear in *International Conference on Machine Learning* (ICML), 2025.
2. **Jiacheng Cheng**[†], Xiang Dai, Jia Wan, Nick Antipa, Nuno Vasconcelos. “Learning a Dynamic Privacy-preserving Camera Robust to Inversion Attacks”, In *European Conference on Computer Vision* (ECCV), 2024. [\[Paper\]](#) [\[Oral Presentation\]](#)
3. **Jiacheng Cheng**[†], Nuno Vasconcelos. “Towards Calibrated Multi-label Deep Neural Networks”, In *IEEE/CVF Conference on Computer Vision and Pattern Recognition* (CVPR), 2024. [\[Paper\]](#)

4. **Jiacheng Cheng**[†], Nuno Vasconcelos. "Calibrating Deep Neural Networks by Pairwise Constraints", In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022. [\[Paper\]](#) [\[Oral Presentation\]](#)
5. **Jiacheng Cheng**[†], Nuno Vasconcelos. "Learning Deep Classifiers Consistent with Fine-Grained Novelty Detection", In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021. [\[Paper\]](#)
6. **Jiacheng Cheng**, Tongliang Liu, Kotagiri Rao, and Dacheng Tao. "Learning with Bounded Instance- and Label-dependent Label Noise", In *International Conference on Machine Learning (ICML)*, 2020. [\[Paper\]](#)

Journal Articles

1. Golnoush Mahmoudinezhad, Sasan Moghimi, Liyang Ru, Yu Xuan Yong, Dongchen Yang, **Jiacheng Cheng**, Siavash Beheshtaein, Evan Walker, Kareem Latif, Kelvin H Du, Gopikasree Gunasegaran, Takashi Nishida, Mark Christopher, Linda Zangwill, Nuno Vasconcelos, Robert N Weinreb "Deep Learning Estimation of 24-2 Visual Field Map from Optic Nerve Head Optical Coherence Tomography Angiography", In *Journal of Glaucoma*, 2025. [\[Paper\]](#)
2. Golnoush Mahmoudinezhad, Sasan Moghimi, **Jiacheng Cheng**, Liyang Ru, Dongchen Yang, Kushagra Agrawal, Rajeev Dixit, Siavash Beheshtaein, Kelvin H. Du, Kareem Latif, Gopikasree Gunasegaran, Eleonora Micheletti, Takashi Nishida, Alireza Kamalipour, Evan Walker, Mark Christopher, Linda Zangwill, Nuno Vasconcelos, Robert N. Weinreb. "Deep Learning Estimation of 10-2 Visual Field Map Based on Macular Optical Coherence Tomography Angiography Measurements", In *American Journal of Ophthalmology*, 2024. [\[Paper\]](#)

[†] Corresponding author

ACADEMIC SERVICES

Reviewer / Program Committee Member:

- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Transactions on Multimedia (TMM)
- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)
- IEEE/CVF International Conference on Computer Vision (ICCV)
- Conference on Neural Information Processing Systems (NeurIPS)
- International Conference on Learning Representations (ICLR)
- European Conference on Computer Vision (ECCV)
- British Machine Vision Conference (BMVC)
- AAAI Conference on Artificial Intelligence (AAAI)

AWARDS

- Electrical and Computer Engineering Department Fellowship, UCSD 2018
- Guo Moruo Scholarship, USTC 2017
- China National Scholarship, Ministry of Education of China 2016

TEACHING

UCSD ECE 271A - Statistical Learning I 2019 - 2023
Teaching Assistant | Instructor: Prof. Nuno Vasconcelos

UCSD DSC 140A - Probabilistic Modeling and Machine Learning 2023
Teaching Assistant | Instructor: Prof. Justin Eldridge

UCSD ECE 161C - Applications of Digital Signal Processing 2023
Teaching Assistant | Instructor: Prof. Fred Harris

UCSD ECE 271A - Statistical Learning II 2022
Teaching Assistant | Instructor: Prof. Manuela Vasconcelos