

## Education

### University of California San Diego

*Ph.D. in Machine Learning, Electrical and Computer Engineering*

Oct. 2024 – Present

San Diego, CA

### Johns Hopkins University

*M.S.E. in Computer Science*

Jan. 2023 – May. 2024

Baltimore, MD

- GPA: 4.0 /4.0

### South China University of Technology

*B.E. in Computer Science*

Sep. 2018 – Jul. 2022

Guangzhou, China

- GPA: 3.73 /4.0
- 2018-19 Scholarship
- Outstanding Thesis Awards

### The Affiliated High School of South China Normal University

*High School Diploma*

Sep. 2015 – Jul. 2018

Guangzhou, China

## Work in Progress

- Y. Feng<sup>†</sup>, **Y. Li**<sup>†</sup>, W. Zhang, S. Zheng and Z. Lu, “VideoOrion: Tokenizing Object Dynamics in Videos” (Under review of **ICCV2025**, <sup>†</sup> denotes equal contribution)
- **Y. Li**, S. Ren, W. Deng, Y. Xu, Y. Gao, “Beyond finite data: Towards data-free out-of-distribution generalization via extrapolation,” arXiv preprint arXiv: 2403.05523, 2024. (Under review of **ICCV2025**)
- **Y. Li**, J. Cheng, Y. Li, G. Zhang, et al., “EgoPrivacy: What Your First-Person Camera Says About You?” (Under review of **ICML2025**)
- **Y. Li**, Q. Gao, T. Zhao, B. Wang, H. Sun, H. Lyu, D. Luo, and H. Deng, “Core Knowledge Deficits in Multi-Modal Language Models” (Under review of **ICML2025**)

## Publications

- N. Zhang<sup>†</sup>, **Y. Li**<sup>†</sup>, D. Du, et al., “Robust-MVTON: Learning Cross-Pose Feature Alignment and Fusion for Robust Multi-View Virtual Try-On” (Accepted by **CVPR2025**, <sup>†</sup> denotes equal contribution)
- Deng W, Yang J, Ding R, **Li Y**, et al Can 3D Vision-Language Models Truly Understand Natural Language?
- H. Liu, **Y. Li**, J. Jian, Y. Cheng, J. Lu, S. Guo, J. Zhu, M. Zhang, M. Zhang, and H. Wang, “Toward a team of ai-made scientists for scientific discovery from gene expression data,” arXiv preprint arXiv: 2402.12391, 2024.
- **Y. Li**, X. Wang, L. Yang, L. Feng, W. Zhang, and Y. Gao, “**Diverse co-training makes strong semi-supervised segmentor**,” in Proceedings of the IEEE/CVF International Conference on Computer Vision (**ICCV**), pp. 16055–16067, 2023.
- S. Huang, **Y. Li**, C. Chen, L. Shi, and Y. Gao, “**Multi-metrics adaptively identifies backdoors in federated learning**,” in Proceedings of the IEEE/CVF International Conference on Computer Vision (**ICCV**), pp. 4652–4662, October 2023.
- **Y. Li**, Y. Gao, and H. Wang, “Towards Understanding Adversarial Transferability in Federated Learning,” arXiv preprint arXiv:2310.00616, 2023. (Accepted by **TMLR**)
- E. Xue, **Y. Li**, H. Liu, Y. Shen, and H. Wang, “Towards adversarially robust dataset distillation by curvature regularization,” arXiv preprint arXiv: 2403.10045, 2024. (Accepted by **AAAI2024**)
- **Y. Li**, W. Cai, Y. Gao, C. Li, and X. Hu, “**More than encoder: Introducing transformer decoder to upsample**,” in 2022 IEEE International Conference on Bioinformatics and Biomedicine (**BIBM**), pp. 1597–1602, IEEE, 2022.
- J. Leng, **Y. Li**, and H. Wang, “Choosing wisely and learning deeply: Selective cross-modality distillation via clip for domain generalization,” arXiv preprint arXiv: 2311.15145, 2023. 2 (Accepted by **TMLR**)
- X. Wang, X. Yang, S. Zhang, **Y. Li**, L. Feng, S. Fang, C. Lyu, K. Chen, and W. Zhang, “Consistent-teacher: Towards reducing inconsistent pseudo-targets in semi-supervised object detection,” in Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), pp. 3240–3249, 2023. (Highlight 2.5%)

## Internship

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**Beijing Academy of Artificial Intelligence** | *Intern Researcher*

**June. 2024 – Oct. 2024**

- Multi-modal Interaction Group
- Supervisor: Zongqing Lu

**Johns Hopkins Medicine** | *Research Assistant*

**May. 2023 – Sep. 2023**

- Department of Radiology and Radiological Science
- Synthesizing high-resolution vessel Wall MRI for visualization of Lenticulostriate Arteries with CGAN, Cycle GAN, conditional DDPM, and cycle DDPM.

**Sensetime Research** | *Intern Researcher*

**Jul. 2021 – Nov. 2022**

- sample efficiency (self-supervised, semi-supervised and weakly supervised learning)
- Supervisor: Xinjiang Wang

**Webank** | *Machine Learning Engineer*

**Jun. 2020 - Sep. 2020**

## Research Assistantship

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**Computer Science, Johns Hopkins University**

**Baltimore, MD**

*Prof. Alan L. Yuille* | *CCVL Research Group*

*Jun. 2023 – Present*

- GPT for unifying uni-modal and multi-modal data.
- Shortcut bias in large vision language models.

**School of information Science, University of Illinois Urbana-Champaign**

**Remote**

*Prof. Haohan Wang* | *DREAM Lab*

*Jul. 2021 – Present*

- Adversarial and robustness of deep learning and federated learning.

**Computer Science, University of Cambridge**

**Remote**

*Prof. Pietro Liò*

*Fed. 2021 – Apr. 2021*

- Reproduce Q-learning, Sarsa, REINFORCE, DQN, DDPG, and Policy Gradient(open source on <https://github.com/williamium3000/>).
- Reproduce AlphaGo on Gobang.

**Computer Science, South China University of Technology**

**Guangzhou, China**

*Prof. Ying Gao* | *Computer Vision Lab*

*Sep. 2020 – Jul. 2021*

- Weakly supervised object localization (WSOL), medical image segmentation.
- Co-write ***Introduction to Computing Ecosystem***: writing of the recent development of foreign middleware and the introduction of several outstanding middlewares (published).
- Solution for Intestinal Cleanliness: build and train a Convolutional Neural Network (CNN) based fined-grained classification model achieving 93% accuracy with ensemble learning (currently used in one of the major hospitals in Guangzhou).

## Service

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- Reviewer of NeurIPS2024, ICLR2025, AISTATS2025, CVPR2025, ICML2025
- Teaching Assistant in EN.553.436/636 Introduction to Data Science (Graduate / Undergraduate), Johns Hopkins University, Fall2023, Spring2024
- Teaching Assistant in CS 601.482/682 Machine Learning: Deep Learning (Graduate / Undergraduate, Fall2023, Johns Hopkins University

## Extracurricular / Miscellaneous

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**Football Varsity Team, School of Computer Science and Engineering**

*Vice Captain & On-field Coach*

- 2020 "Golden Sunshine Cup" college football match **Gold Medal**.
- 2020 11th college inter-academic football league **Championship**.
- 2019 "Golden Sunshine Cup" college football match **Silver Medal**.
- 2019 10th college inter-academic football league **Second Place**.