

JINGYANG LIN

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EDUCATION

University of Rochester

PHD CANDIDATE IN COMPUTER SCIENCE

Advisor: Prof. Jiebo Luo

Rochester, NY

Aug. 2022 - Present

Sun Yat-sen University

BENG IN SOFTWARE ENGINEERING

MCs IN COMPUTATIONAL MATHEMATICS

Advisor: Prof. Hongyang Chao

Guangzhou, China

Aug. 2015 - Jun. 2019

Aug. 2019 - Jun. 2022

RESEARCH INTEREST

Vision/video with LLMs, AI4Healthcare, self-supervised learning

PUBLICATIONS

* indicates equal contribution

1. **Jingyang Lin**, Yingda Xia, Jianpeng Zhang, Ke Yan, Le Lu, Jiebo Luo, Ling Zhang. “CT-GLIP: 3D Grounded Language-Image Pretraining with CT Scans and Radiology Reports for Full-Body Scenarios”, preprint, 2024. [[pdf](#)]
2. Wenting Chen, Linlin Shen, **Jingyang Lin**, Jiebo Luo, Xiang Li, Yixuan Yuan. “Fine-Grained Image-Text Alignment in Medical Imaging Enables Explainable Cyclic Image-Report Generation”, in the 62nd Annual Meeting of the Association for Computational Linguistics (**ACL**), 2024. [[pdf](#)]
3. Yunlong Tang, Jing Bi, Siting Xu, Luchuan Song, Susan Liang, Teng Wang, Daoan Zhang, Jie An, **Jingyang Lin**, Rongyi Zhu, Ali Vosoughi, Chao Huang, Zeliang Zhang, Feng Zheng, Jianguo Zhang, Ping Luo, Jiebo Luo, Chenliang Xu. “Video Understanding with Large Language Models: A Survey”, preprint, 2024. [[pdf](#)]
4. **Jingyang Lin***, Hang Hua*, Ming Chen, Yikang Li, Jenhao Hsiao, Chiuman Ho, Jiebo Luo. “VideoXum: Cross-modal Visual and Textural Summarization of Videos”, in *IEEE Transactions on Multimedia (TMM)*, 2023. [[pdf](#)] [[code](#)]
5. Yurui Qian, Yu Wang, Jingjing Zou, **Jingyang Lin**, Yingwei Pan, Ting Yao, Qibin Sun, Tao Mei. “Kernel Masked Image Modeling with Generalization Guarantees”, submitted to *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2023, Under Review.
6. **Jingyang Lin**, Yu Wang, Qi Cai, Yingwei Pan, Ting Yao, Hongyang Chao, Tao Mei. “Out-of-Distribution Detection with Hilbert-Schmidt Independence Optimization”, preprint, 2022. [[pdf](#)] [[code](#)]
7. **Jingyang Lin**, Junyu Chen, Hanjia Lyu, Igor Khodak, Divya Chhabra, Colby L Day Richardson, Irina Prelicpean, Andrew M Dylag, Jiebo Luo. “Predicting Adverse Neonatal Outcomes for Preterm Neonates with Multi-Task Learning”, in *IEEE International Conference on Digital Health (ICDH)*, 2023. [[pdf](#)]
8. Yu Wang, Jingjing Zou, **Jingyang Lin**, Qing Ling, Yingwei Pan, Ting Yao, Tao Mei. “Out-of-Distribution Detection via Conditional Kernel Independence Model”, in *Neural Information Processing Systems (NeurIPS)*, 2022, **Spotlight**. [[pdf](#)] [[code](#)]
9. Yu Wang, **Jingyang Lin**, Qi Cai, Yingwei Pan, Ting Yao, Hongyang Chao, Tao Mei. “A Low Rank Promoting Prior for Contrastive Learning”, in *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2022. [[pdf](#)] [[code](#)]
10. Yu Wang, **Jingyang Lin**, Jingjing Zou, Yingwei Pan, Ting Yao, Tao Mei. “Improving Self-supervised Learning with Automated Unsupervised Outlier Arbitration”, in *Neural Information Processing Systems (NeurIPS)*, 2021. [[pdf](#)] [[code](#)]
11. **Jingyang Lin**, Yingwei Pan, Rongfeng Lai, Xuehang Yang, Hongyang Chao, Ting Yao. “CORE-Text: Improving Scene Text Detection with Contrastive Relational Reasoning”, in *International Conference on Multimedia and Expo (ICME)*, 2021, **Oral**. [[pdf](#)] [[code](#)]

12. Jiafeng Xie, Bing Shuai, Jian-Fang Hu, **Jingyang Lin**, Wei-Shi Zheng. “Improving Fast Segmentation Network with Teacher-Student Learning”, in *British Machine Vision Conference (BMVC)*, 2018. [[pdf](#)]

RESEARCH EXPERIENCE

PAII Inc.

Palo Alto, CA

RESEARCH INTERN

May. 2024 - Aug. 2024

- Worked with Dr. Andy Wong, Dr. Tian Xia, and Dr. Mei Han on **Long-context LLMs for global QA**.
- One paper in preparation.

Alibaba Group (U.S.) Inc.

New York City, NY

RESEARCH INTERN

Jun. 2023 - Sep. 2023

- Worked with Dr. Yingda Xia, Dr. Ling Zhang, and Dr. Le Lu on **3D Grounded Language-Image Pretraining with CT scans and radiology reports (CT-GLIP) using a multimodal CT scan dataset**.
- One paper in preparation.

JD AI Research

Beijing, China

RESEARCH INTERN

Jun. 2020 - Jul. 2022

- Worked with Dr. Yu Wang, Dr. Ting Yao, and Dr. Tao Mei on **self-supervised learning (SSL) and out-of-distribution (OOD) detection for generalized vision encoder**.
- Two Papers accepted by NeurIPS and one paper accepted by TPAMI.

JD AI Research

Beijing, China

RESEARCH INTERN

Jul. 2018 - Aug. 2019

- Worked with Tech Lead Rongfeng Lai and Dr. Ting Yao on **scene text detection**.
- One Paper accepted by ICME.

Sun Yat-sen University

Guangzhou, China

RESEARCH ASSISTANT

Oct. 2017 - Jun. 2018

- Worked with Dr. Bing Shuai and Dr. Jianfang Hu on **knowledge distillation for efficient semantic segmentation**.
- One Paper accepted by BMVC.

TEACHING EXPERIENCE

2024 Spring	TA for Data Mining (CSC 240) with Prof. Thaddeus E. Pawlicki	<i>University of Rochester</i>
2023 Fall	TA for Data Mining (CSC 440) with Prof. Jiebo Luo	<i>University of Rochester</i>
2023 Spring	TA for Machine Vision (CSC 249) with Prof. Jiebo Luo	<i>University of Rochester</i>

SELECTED AWARDS

2021	Rank #1 , Open World Vision Challenge at CVPR 2021	<i>Virtual</i>
2021	The First Prize Scholarship , Sun Yat-sen University (Top 10%)	<i>Guangzhou, China</i>
2019	Best Bachelor Thesis Award , Sun Yat-sen University (Top 2%)	<i>Guangzhou, China</i>

SERVICES

Conference Reviewer: CVPR, ICLR, NeurIPS, ACM MultiMedia, CICA

Journal Reviewer: IEEE Transactions on Big Data, IEEE MultiMedia

SKILLS

Programming Python, Matlab, C/C++, LaTeX, Web
Tools PyTorch, TensorFlow, Git