

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-and-language, video analysis, AI4Medicine, self-supervised learning

PUBLICATIONS

* indicates equal contribution

1. **Jingyang Lin***, Hang Hua*, Ming Chen, Yikang Li, Jenhao Hsiao, Chiuman Ho, Jiebo Luo. “VideoXum: Cross-modal Visual and Textural Summarization of Videos”, *submitted to IEEE Transactions on Multimedia (TMM)*, Under Review.
2. 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 Neural Information Processing Systems (NeurIPS)*, 2023, Under Review.
3. **Jingyang Lin**, Yu Wang, Qi Cai, Yingwei Pan, Ting Yao, Hongyang Chao, Tao Mei. “Out-of-Distribution Detection with Hilbert-Schmidt Independence Optimization”, *submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, Under Review.
4. **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. [\[pdf\]](#)
5. 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**. [\[pdf\]](#) [\[code\]](#)
6. 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. [\[pdf\]](#) [\[code\]](#)
7. 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. [\[pdf\]](#) [\[code\]](#)
8. **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**. [\[pdf\]](#) [\[code\]](#)
9. 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

Alibaba Group (U.S.) Inc.

RESEARCH INTERN

New York City, NY
Jun. 2023 - Present

- Worked with Dr. Yingda Xia, Dr. Ling Zhang, and Dr. Le Lu on **clinic report generation for 3D CT scans**.
- One paper is in preparation.

JD AI Research

RESEARCH INTERN

Beijing, China
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**.
- Two Papers are accepted by NeurIPS, and one paper is accepted by TPAMI.

JD AI Research

RESEARCH INTERN

Beijing, China
Jul. 2018 - Aug. 2019

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

Sun Yat-sen University

RESEARCH ASSISTANT

Guangzhou, China
Oct. 2017 - Jun. 2018

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

TEACHING EXPERIENCE

2023 Fall **TA for Data Mining (CSC 440)** with Prof. Jiebo Luo *University of Rochester*
2023 Spring **TA for Machine Vision (CSC 449)** with Prof. Jiebo Luo *University of Rochester*

SELECTED AWARDS

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

SERVICES

Conference Reviewer: NeurIPS (22, 23), ACM MM (23), CICA I (22)

SKILLS

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