

Xingyi Yang

✉ xyang@u.nus.edu • 🌐 [adamdad.github.io](https://github.com/Adamdad) • <https://github.com/Adamdad>

EDUCATION

National University of Singapore(NUS)

PhD. SP&ML, Electrical and Computer Engineering

Singapore

Sept. 2021-Present

University of Oxford

Visiting Student, Department of Engineering Science

Oxford, United Kingdom

Sept. 2024-Present

University of California, San Diego(UCSD)

Msc. SIP, Electrical and Computer Engineering, Jacobs School of Engineering

La Jolla, USA

Sept. 2019-Jun. 2021

Southeast University

B.Eng. Computer Engineering

Nanjing, China

Sept. 2015-Jun. 2019

University of Ottawa

Visiting Student, Electrical and Computer Engineering

Ottawa, Canada

Jun. 2018-Sept. 2018

RESEARCH INTEREST

- **Deep Model Reuse:** Model Reuse, Interpretability, Compositionality and Transfer Learning.
- **Generative Model:** Diffusion Probabilistic Model, 3D/Video Generation.
- **Computer Vision:** Recognition, Detection, Representation Learning and 3D Reconstruction.

SELECTED PUBLICATIONS

1. **Xingyi Yang**, Xinchao Wang
Language Model as Visual Explainer
Conference on Neural Information Processing Systems(NeurIPS 2024).
2. **Xingyi Yang**, Xinchao Wang
Neural Metamorphosis
European Conference on Computer Vision(ECCV 2024).
3. **Xingyi Yang**, Xinchao Wang
Diffusion Model as Representation Learner
International Conference on Computer Vision(ICCV 2023).
4. **Xingyi Yang**, Daquan Zhou, Jiashi Feng, Xinchao Wang
Diffusion Probabilistic Model Made Slim
Conference on Computer Vision and Pattern Recognition(CVPR 2023).
5. Xinjiang Wang*, **Xingyi Yang***, Shilong Zhang, Yijiang Li,
Litong Feng, Shijie Fang, Chengqi Lyu, Kai Chen, Wayne Zhang
Consistent-Teacher: Towards Reducing Inconsistent Pseudo-targets in Semi-supervised Object Detection
Conference on Computer Vision and Pattern Recognition(CVPR 2023) * Contributed Equally. (**Highlight**).
6. **Xingyi Yang**, Daquan Zhou, Songhua Liu, Jingwen Ye, Xinchao Wang
Deep Model Reassembly
Conference on Neural Information Processing Systems(NeurIPS 2022) (**Paper Award Nomination**).
7. **Xingyi Yang**, Jingwen Ye, Xinchao Wang
Factorizing Knowledge in Neural Networks
European Conference on Computer Vision(ECCV 2022).
8. **Xingyi Yang**, Muchao Ye, Quanzeng You, Fenglong Ma.
Writing by Memorizing: Hierarchical Retrieval-based Medical Report Generation
Annual Meeting of the Association for Computational Linguistics(ACL 2021) (**Long Oral**).

INTERNSHIP AND RESEARCH EXPERIENCE

ByteDance

Research Intern

Singapore

May. 2022-Sep. 2022

- Designed an efficient diffusion model that reduced the size of the latent diffusion model by $10\times$.
- Supervisor: Dr. Jiashi Feng

Sensetime Research & Shanghai Artificial Intelligence Lab

Research Intern

Shanghai, China

April. 2021-Aug. 2021

- Maintain the codebase of [OpenMMLab](#).
- Semi-supervised object detection and image recognition.

AWARDS AND CERTIFICATES

- World Artificial Intelligence Conference Youth Outstanding Paper Nomination Award, 2024.
- CVPR 2023 Travel Grant.
- NeurIPS 2022 Paper Award Nomination.
- NeurIPS 2022 Top Reviewer.
- 2th place on CVPR 2022 CLVision Challenge Track 2&Track 3.
- National University of Singapore, Graduate Research Scholarship.
- 12th/2519 place(Defence) on IJACI-19 Alibaba Adversarial Vision Challenge.
- 2018 MCM/ICM Meritorious Winner Prize.

Academic Services and Invited Talk

- Co-organizer, of CVPR 2024 Tutorial: [Disentanglement and Compositionality in Computer Vision](#).
- Co-organizer, of ECCV 2024 Tutorial: [Emerging Trends in Disentanglement and Compositionality](#).
- Co-organizer, Workflow Chair, of NeurIPS 2020 Workshop: Self-Supervised Learning - Theory and Practice.
- Invited Talk, by UIUC on [Deep Model Reuse: Paving the Way for Efficient and Generalizable AI Systems](#).
- Invited Talk, by Valse on [The Future of 3D Vision in the Era of LLMs: Challenges and Opportunities](#).
- Journal Reviewer TIP, PR, TCSVT, JBHI, JVCI, ESWA.
- Conference Reviewer for CVPR, ICCV, ECCV, NeurIPS, ICLR, ICML, AAAI, IJCAI, ICASSP.