Xingyi Yang

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EDUCATION

National University of Singapore(NUS) — **Singapore**
PhD. SP&ML, Electrical and Computer Engineering — *Sept. 2021-Present*

University of Oxford — **Oxford, United Kingdom**
Visiting Student, Department of Engineering Science — *Sep. 2024-Present*

University of California, San Diego(UCSD) — **La Jolla, USA**
Msc. SIP, Electrical and Computer Engineering, Jacobs School of Engineering — *Sept. 2019-Jun. 2021*

Southeast University — **Nanjing, China**
B.Eng. Computer Engineering — *Sept. 2015-Jun. 2019*

University of Ottawa — **Ottawa, Canada**
Visiting Student, Electrical and Computer Engineering — *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
   Languag 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 **Singapore**
Research Intern *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 **Shanghai, China**
Research Intern *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.
- Chinese Government Award for Outstanding Self-financed Students Abroad, 2023.
- 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.