Xingyi Yang

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EMPLOYMENT

The Hong Kong Polytechnic University   Hong Kong
Incoming Assistant Professor (*Presidential Young Scholar*)   *July 2025-*

- Department of Data Science and Artificial Intelligence

EDUCATION

National University of Singapore(NUS)   Singapore
PhD. in Electrical and Computer Engineering   *Sept. 2021-Jun. 2025*
Advisor: Prof. Xinchao Wang

University of Oxford   Oxford, United Kingdom
Visiting PhD in Department of Engineering Science   *Sep. 2024-Mar. 2025*
Advisor: Prof. Philip Torr

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

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

Selected Awards

- World Artificial Intelligence Conference Youth Outstanding Paper Nomination Award, 2024.
- Baidu Scholarship Finalist, 2024.
- Chinese Government Award for Outstanding Self-financed Students Abroad, 2023.
- NeurIPS 2022 Paper Award Nomination.

PUBLICATIONS

1. **Xingyi Yang**, Constantin Venhoff, Ashkan Khakzar,
   Christian Schroeder de Witt, Puneet K Dokania, Adel Bibi, Philip Torr
   Mixture of Experts Made Intrinsically Interpretable
   The International Conference on Machine Learning(**ICML 2025**).

2. **Xingyi Yang**, Songhua Liu, Xinchao Wang
   Hash3D: Training-free Acceleration for 3D Generation
   Conference on Computer Vision and Pattern Recognition(**CVPR 2025**).

3. Suizhi Huang, **Xingyi Yang**, Hongtao Lu, Xinchao Wang
   Few-shot Implicit Function Generation via Equivariance
   Conference on Computer Vision and Pattern Recognition(**CVPR 2025**) (**Highlight**).

4. Hanyang Kong, **Xingyi Yang**, Xinchao Wang
   Generative Sparse-View Gaussian Splatting
   Conference on Computer Vision and Pattern Recognition(**CVPR 2025**).

5. Bonan Li, Zicheng Zhang, **Xingyi Yang**, Xinchao Wang
   CoSER: Towards Consistent Dense Multiview Text-to-Image Generator for 3D Creation
   Conference on Computer Vision and Pattern Recognition(**CVPR 2025**) (**Highlight**).

6. **Xingyi Yang**, Xinchao Wang
   Kolmogorov-Arnold Transformer
   International Conference on Learning Representations(**ICLR 2025**).

7. Li Ju, **Xingyi Yang**, Qi Li, Xinchao Wang
GraphBridge: Towards Arbitrary Transfer Learning in GNNs
International Conference on Learning Representations(**ICLR 2025**).

8. Shizun Wang, **Xingyi Yang**, Qiuhong Shen, Zhenxiang Jiang, Xinchao Wang
GFlow: Recovering 4D World from Monocular Video
AAAI Conference on Artificial Intelligence(**AAAI 2025**).

9. Hanyang Kong, **Xingyi Yang**, Xinchao Wang
Efficient Gaussian Splatting for Monocular Dynamic Scene Rendering via Sparse Time-Variant Attribute Modeling
AAAI Conference on Artificial Intelligence(**AAAI 2025**).

10. **Xingyi Yang**, Xinchao Wang
Languag Model as Visual Explainer
Conference on Neural Information Processing Systems(**NeurIPS 2024**).

11. **Xingyi Yang**, Xinchao Wang
Neural Metamorphosis
European Conference on Computer Vision(**ECCV 2024**).

12. Qiuhong Shen, **Xingyi Yang**, Xinchao Wang
FlashSplat: 2D to 3D Gaussian Splatting Segmentation Solved Optimally
European Conference on Computer Vision(**ECCV 2024**).

13. Qiuhong Shen, **Xingyi Yang**, Xinchao Wang
Vista3D: Unravel the 3D Darkside of a Single Image
European Conference on Computer Vision(**ECCV 2024**).

14. Songhua Liu, Xin Jin, **Xingyi Yang**, Jingwen Ye, Xinchao Wang
StyDeSty: Min-Max Stylization and Destylization for Single Domain Generalization
International Conference on Machine Learning (**ICML 2024**).

15. Yinwei Wu, **Xingyi Yang**, Xinchao Wang
Relation Rectification in Diffusion Model
Conference on Computer Vision and Pattern Recognition(**CVPR 2024**).

16. Jiahao Lu, **Xingyi Yang**, Xinchao Wang
Unsegment Anything by Simulating Deformation
Conference on Computer Vision and Pattern Recognition(**CVPR 2024**).

17. Jiaqi Wang, **Xingyi Yang**, Suhan Cui, Liwei Che, Lingjuan Lyu, Dongkuan Xu, Fenglong Ma
Towards Personalized Federated Learning via Heterogeneous Model Reassembly
Conference on Neural Information Processing Systems(**NeurIPS 2023**).

18. **Xingyi Yang**, Xinchao Wang
Diffusion Model as Representation Learner
International Conference on Computer Vision(**ICCV 2023**).

19. Sucheng Ren, **Xingyi Yang**, Songhua Liu, Xinchao Wang
SG-Former: Self-guided Transformer with Evolving Token Reallocation
International Conference on Computer Vision(**ICCV 2023**).

20. **Xingyi Yang**, Daquan Zhou, Jiashi Feng, Xinchao Wang
Diffusion Probabilistic Model Made Slim
Conference on Computer Vision and Pattern Recognition(**CVPR 2023**).

21. 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**).

22. Runpeng Yu, Songhua Liu, **Xingyi Yang**, Xinchao Wang
Distribution Shift Inversion for Out-of-Distribution Prediction
Conference on Computer Vision and Pattern Recognition(**CVPR 2023**).

23. **Xingyi Yang**, Daquan Zhou, Songhua Liu, Jingwen Ye, Xinchao Wang
    Deep Model Reassembly
    Conference on Neural Information Processing Systems(**NeurIPS 2022**) (**Paper Award Nomination**).

24. Songhua Liu, Kai Wang, **Xingyi Yang**, Jingwen Ye, Xinchao Wang
    Dataset Distillation via Factorization
    Conference on Neural Information Processing Systems(**NeurIPS 2022**) (**Spotlight**).

25. **Xingyi Yang**, Jingwen Ye, Xinchao Wang
    Factorizing Knowledge in Neural Networks
    European Conference on Computer Vision(**ECCV 2022**).

26. Jingwen Ye, Yifang Fu, Jie Song, **Xingyi Yang**, Songhua Liu, Xin Jin, Mingli Song, Xinchao Wang
    Learning with Recoverable Forgetting
    European Conference on Computer Vision(**ECCV 2022**).

27. Zihao Zhou, **Xingyi Yang**, Ryan Rossi, Handong Zhao, Rose Yu
    Neural Point Process for Learning Spatiotemporal Event Dynamics
    Annual Learning for Dynamics & Control Conference(**L4DC 2022**).

28. **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**).

29. **Xingyi Yang**
    Kalman Optimizer for Consistent Gradient Descent
    IEEE International Conference on Acoustics, Speech and Signal Processing(**ICASSP 2021**).

30. Ramtin Hosseini, **Xingyi Yang**, Pengtao Xie
    DSRNA: Differentiable Search of Robust Neural Architectures
    Conference on Computer Vision and Pattern Recognition(**CVPR 2021**).

31. Rui Zhu, **Xingyi Yang**, Yannick Hold-Geoffroy, Federico Perazzi, Jonathan Eisenmann, Kalyan Sunkavalli, Manmohan Chandraker
    Single View Metrology in the Wild
    European Conference on Computer Vision(**ECCV 2020**).

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.

Academic Services and Talks

Invited Talks

- *Deep Model Reuse: Paving the Way for Efficient and Generalizable AI Systems*
  Computer Vision Group, UIUC.
  DeepWok Lab, Imperial College London.

- *Disentanglement and Composition for AGI*
  CVPR 2024 Tutorial, Disentanglement and Compositionality in Computer Vision.
  ECCV 2024 Tutorial, Emerging Trends in Disentanglement and Compositionality.

- *Anything-3d: Towards single-view anything reconstruction in the wild*
  The Future of 3D Vision in the Era of LLMs Seminar 2023, VALSE.

Tutorial and Workshop

- Organizer of CVPR 2024 Tutorial: Disentanglement and Compositionality in Computer Vision.
- Organizer of ECCV 2024 Tutorial: Emerging Trends in Disentanglement and Compositionality.
- Organizer, Workflow Chair of NeurIPS 2020 Workshop: Self-Supervised Learning - Theory and Practice.

Reviewer

- Journal Reviewer for TIP, PR, TCSVT, JBHI, JVCI, ESWA.
- Conference Reviewer for CVPR, ICCV, ECCV, NeurIPS, ICLR, ICML, AAAI, IJCAI, ICASSP.