

Jingyi Xu

Homepage: <https://jingyixu.net>

jingyixu@cs.stonybrook.edu

Google Scholar

EDUCATION

Stony Brook University, United States

Aug 2019 - Aug 2024

Ph.D, Computer Science

GPA : 4.0/4.0

Supervisor: Prof. Dimitris Samaras

Nankai University, China

July 2015 - June 2019

B.S., Computer Science

GPA : 90.3/100

RESEARCH INTERESTS

My research interests lie in computer vision and deep learning, with a focus on generative modeling and representation learning. Specifically, I aim to enhance the fidelity and diversity of generated data across various tasks, especially in low-shot and zero-shot scenarios.

PUBLICATIONS

Phase-Aligned RoPE for Mixed-Resolution Diffusion Transformer.

Haoyu Wu, **Jingyi Xu**, Qiaomu Miao, Dimitris Samaras, Hieu Le.

European Conference on Computer Vision (**ECCV**) **2026**.

Cast and Attached Shadow Detection via Iterative Light and Geometry Reasoning.

Shilin Hu, **Jingyi Xu**, Sagnik Das, Dimitris Samaras, Hieu Le.

European Conference on Computer Vision (**ECCV**) **2026**.

What is the Right Embedding Space for Contrastive Learning in Referring Expression Counting?

Kostas Triaridis, Panagiotis Kaliosis, E-Ro Nguyen, **Jingyi Xu**, Dimitris Samaras, Hieu Le.

European Conference on Computer Vision (**ECCV**) **2026**.

Importance-Based Token Merging for Efficient Image and Video Generation.

Haoyu Wu, **Jingyi Xu**, Hieu Le, Dimitris Samaras

International Conference on Computer Vision (**ICCV**) **2025 (Oral)**.

Multi-view Gaze Target Estimation.

Qiaomu Miao, Vivek Raju Golani, **Jingyi Xu**, Progga Paromita Dutta, Minh Hoai, Dimitris Samaras.

International Conference on Computer Vision (**ICCV**) **2025**.

Counting Stacked Objects.

Corentin Dumery, Noa Ette, Aoxiang Fan, Ren Li, **Jingyi Xu**, Hieu Le, Pascal Fua.

International Conference on Computer Vision (**ICCV**) **2025 (Oral)**.

Few-shot Personalized Scanpath Prediction.

Ruoyu Xue, **Jingyi Xu**, Sounak Mondal, Hieu Le, Greg Zelinsky, Minh Hoai, Dimitris Samaras.

Computer Vision and Pattern Recognition (**CVPR**) **2025**.

Enhancing Compositional Text-to-Image Generation by Exploiting Reliable Seeds.

Shuangqi Li, Hieu Le, **Jingyi Xu**, Mathieu Salzmann.

International Conference on Learning Representations (**ICLR**) **2025 (Spotlight)**.

Assessing Sample Quality via the Latent Space of Generative Models.

Jingyi Xu, Hieu Le, Dimitris Samaras.

European Conference on Computer Vision (**ECCV**) **2024**.

Zero-Shot Object Counting.

Jingyi Xu, Hieu Le, Vu Nguyen, Viresh Ranjan, Dimitris Samaras.

Computer Vision and Pattern Recognition (**CVPR**) **2023**.

Generating Representative Samples for Few-Shot Classification.

Jingyi Xu, Hieu Le.

Computer Vision and Pattern Recognition (**CVPR**) **2022**.

Learning to Count from Pseudo-Labeled Segmentation.

Jingyi Xu, Hieu Le, Dimitris Samaras.

Winter Conference on Applications of Computer Vision (**WACV**) **2025**.

Generating Features with Increased Crop-Related Diversity for Few-Shot Object Detection.

Jingyi Xu, Hieu Le, Dimitris Samaras.

Computer Vision and Pattern Recognition (**CVPR**) **2023**.

Variational Feature Disentangling for Fine-Grained Few-Shot Visual Recognition.

Jingyi Xu, Hieu Le, Mingzhen Huang, ShahRukh Athar, Dimitris Samaras.

International Conference on Computer Vision (**ICCV**) **2021**.

RegularFace: Deep Face Recognition via Exclusive Regularization.

Kai Zhao, **Jingyi Xu**, Mingming Cheng.

Computer Vision and Pattern Recognition (**CVPR**) **2019**.

Learning Frame-Wise Emotion Intensity for Audio-Driven Talking-Head Generation.

Jingyi Xu, Hieu Le, Zhixin Shu, Yang Wang, Yi-Hsuan Tsai, Dimitris Samaras.

Arxiv preprint. **May 2024**.

Zero-shot object counting with language-vision models.

Jingyi Xu, Hieu Le, Dimitris Samaras

Arxiv preprint, **Sep 2023**.

INDUSTRIAL EXPERIENCE

AI Researcher at Tavus

April 2026 - Present

- Topic: Real-time interactive talking-head avatar generation with diffusion models.

AI Research Scientist at SpreeAI

July 2024 - April 2026

- Topic: Photo-realistic virtual try-on with generative models.

Research Assistant at The Research Foundation for SUNY

March 2020 - June 2024

- Topic: Semi-supervised object segmentation via feature matching.

Research Intern at Amazon, Seattle

May 2023 - July 2023

- Topic: Subject-driven video editing with diffusion models.

Research Intern at NEC Lab

May 2021 - Aug 2021

- Topic: Face anti-spoofing using adversarial feature generation.

Research Intern at Sensetime

Dec 2018 - July 2019

- Topic: Robust face recognition through hard sample mining.

PROFESSIONAL SERVICE

Conference Reviewer:

Conference on Computer Vision and Pattern Recognition (CVPR)	2022 - 2026
International Conference on Learning Representations (ICLR)	2025, 2026
European Conference on Computer Vision (ECCV)	2022, 2024, 2026
Conference on Neural Information Processing Systems (NeurIPS)	2024
International Conference on Machine Learning (ICML)	2024
International Conference on Computer Vision (ICCV)	2023, 2025
Eurographics Conference on Computer Graphics (EG)	2025

Journal Reviewer:

International Journal of Computer Vision (IJCV)	2024
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)	2024
ACM Multimedia (ACM MM)	2024
Transactions on Cybernetics (TCDS)	2024
Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	2024

MENTORING

Shuangqi Li, PhD student at EPFL

Project: Enhancing compositional text-to-image generation by exploiting reliable seeds.

Haoyu Wu, PhD student at Stony Brook University

Project: Importance-based token merging for diffusion models.

Ruoyu Xue, PhD student at Stony Brook University

Project: Few-shot personalized scanpath prediction.

Shao-Yu Chang, PhD student at Stony Brook University

Project: Emotional talking-head generation with diffusion models.

Anujay Ghosh, Master student at Stony Brook University

Project: Class-agnostic object counting using pseudo-labeled exemplars.

CODING LANGUAGES AND TOOLS

Programming Languages	Python, C/C++, Java, MATLAB, $\text{\LaTeX}$
Tools	Pytorch, Caffe

AWARDS

Excellence Scholarship, Stony Brook University	2019 - 2022
First Prize of Scholarship, Nankai University	2016, 2018
Second Prize of Scholarship, Nankai University	2017
First Prize, China Undergraduate Mathematical Contest in Modeling	2017
First Prize, China College Students Mathematics Competition	2016