Yinbo Chen

yinboc96@gmail.com | yinboc.github.io | google scholar

EDUCATION

University of California, San Diego   *Current*

Ph.D. candidate in the ECE department, advised by Prof. Xiaolong Wang.

Tsinghua University   2020

Yao Class, Institute for Interdisciplinary Information Sciences, directed by Prof. Andrew Yao.

EXPERIENCE

GenAI, Meta   2024

Research Intern. Work with Ishan Misra, Rohit Girdhar, Sai Saketh Rambhatla

- Designed a simple, principled, and scalable image tokenizer based on diffusion loss for image generation, which outperforms prior state-of-the-art image tokenizers with GAN-LPIPS-L1 hybrid losses.

Adobe Research   2023

Research Intern. Work with Michael Gharbi, Oliver Wang, Richard Zhang, Eli Shechtman

- Designed an image neural field diffusion model, which can learn from arbitrary resolution images, generate high-resolution images, and enable efficient zero-shot editing at any scale based on diffusion inverse problems.

BAIR Lab, University of California, Berkeley   2019

Visitor. Advisor: Trevor Darrell

- State-of-the-art algorithm for few-shot learning with pre-training and meta-learning.

SAILING Lab, Carnegie Mellon University   2018

Visitor. Advisor: Xiaodan Liang, Eric P. Xing

- State-of-the-art graph network for zero-shot learning with knowledge graph.

PUBLICATIONS (* INDICATES EQUAL CONTRIBUTION)

Yinbo Chen, Rohit Girdhar, Xiaolong Wang, Sai Saketh Rambhatla, Ishan Misra
Diffusion Autoencoders are Scalable Image Tokenizers
(In submission)

Runjie Yan, **Yinbo Chen**, Xiaolong Wang
Consistent Flow Distillation for Text-to-3D Generation
(In submission)

Yinbo Chen, Oliver Wang, Richard Zhang, Eli Shechtman, Xiaolong Wang, Michael Gharbi
Image Neural Field Diffusion Models
Computer Vision and Pattern Recognition (CVPR), 2024 **(Highlight)**

Yinbo Chen, Xiaolong Wang
Transformers as Meta-Learners for Implicit Neural Representations
European Conference on Computer Vision (ECCV), 2022

Hanzhe Hu*, **Yinbo Chen***, Jiarui Xu, Shubhankar Borse, Hong Cai, Liwei Wang, Fatih Porikli, Xiaolong Wang
Learning Implicit Feature Alignment Function for Semantic Segmentation
European Conference on Computer Vision (ECCV), 2022

Zeyuan Chen, **Yinbo Chen**, Jingwen Liu, Xingqian Xu, Vidit Goel, Zhangyang Wang, Humphrey Shi, Xiaolong Wang
VideoINR: Learning Video Implicit Neural Representation for Continuous Space-Time Super-Resolution
Computer Vision and Pattern Recognition (CVPR), 2022

Yinbo Chen, Zhuang Liu, Huijuan Xu, Trevor Darrell, Xiaolong Wang
Meta-Baseline: Exploring Simple Meta-Learning for Few-Shot Learning
International Conference on Computer Vision (ICCV), 2021

Yinbo Chen, Sifei Liu, Xiaolong Wang
Learning Continuous Image Representation with Local Implicit Image Function
Computer Vision and Pattern Recognition (CVPR), 2021 **(Oral)**

Yinbo Chen*, Michael Kampffmeyer*, Xiaodan Liang, Hao Wang, Yujia Zhang, Eric P. Xing
Rethinking Knowledge Graph Propagation for Zero-Shot Learning
Computer Vision and Pattern Recognition (CVPR), 2019

Awards

Qualcomm Innovation Fellowship	2022
Gold, ACM-ICPC Asia Regional Contest	2017
Fellowship of Xuetang Talents Program, Tsinghua University	2016
Gold, China Team Selection Competition of Informatics Olympiad	2014
Gold, Asia-Pacific Informatics Olympiad	2014
Gold, National Olympiad in Informatics	2014

Academic Services

Conference Reviewer
    International Conference on Learning Representations (ICLR)
    Computer Vision and Pattern Recognition (CVPR)
    International Conference on Machine Learning (ICML)
    European Conference on Computer Vision (ECCV)
    International Conference on Computer Vision (ICCV)
    Conference on Neural Information Processing Systems (NeurIPS)
    International Conference on 3D Vision (3DV)
    SIGGRAPH Asia

Journal Reviewer
    IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)