

XIAOMING ZHAO

CONTACT

Mailing address available upon request.

✉ +1-773-668-4160

✉ xiaoming.zhao9@gmail.com

🌐 <https://xiaoming-zhao.com/>

INTERESTS

Computer vision, generative models, and machine learning.

EDUCATION

University of Illinois Urbana-Champaign, Urbana, IL, USA

Doctor of Philosophy in Computer Science

08/2019 - 12/2024

Advisor: Prof. Alexander Schwing

Thesis: Harnessing Data Priors to Mitigate 3D Data Scarcity

Master of Science in Computer Science

08/2017 - 05/2019

Advisor: Prof. Jian Peng

University of Science and Technology of China, Hefei, Anhui, China

Bachelor of Science in Statistics

09/2012 - 07/2016

EMPLOYMENTS

Machine Learning Research (MLR), Apple, Cupertino, CA, USA

Research Scientist

12/2024 - present

Google, San Francisco, CA, USA

Research Intern (with Keunhong Park, Philipp Henzler, Pratul Srinivasan, Dor Verbin, Ricardo Martin-Brualla)

09/2023 - 08/2024

Apple, Seattle, WA, USA

Research Intern (with Alexander Schwing and Alex Colburn)

02/2023 - 09/2023

Reality Labs, Meta, Seattle, WA, USA

Research Scientist Intern (with Shunsuke Saito, Minh P. Vo, Jia-Bin Huang)

05/2022 - 12/2022

Apple, Seattle, WA, USA

Machine Learning Research Intern (with Alex Colburn and Fangchang Ma)

05/2021 - 05/2022

Kuaishou US R&D Center, Bellevue, WA, USA

Research Intern (with Ji Liu)

05/2019 - 08/2019

Tencent AI Lab, Bellevue, WA, USA

Machine Learning Researcher Intern (with Boqing Gong)

05/2018 - 08/2018

PUBLICATIONS

[15] LiTo: Surface Light Field Tokenization.

Jen-Hao Rick Chang*, **Xiaoming Zhao***, Dorian Chan, Oncel Tuzel.

(* indicates equal contribution)

In *International Conference on Learning Representations (ICLR)*, 2026.

[14] Studying Classifier(-Free) Guidance From a Classifier-Centric Perspective.

Xiaoming Zhao and Alexander G. Schwing.

In *AAAI Conference on Artificial Intelligence (AAAI)*, 2026.

- [13] 3D Shape Tokenization via Latent Flow Matching.
Jen-Hao Rick Chang, Yuyang Wang, Miguel Ángel Bautista, Jiatao Gu, Xiaoming Zhao, Joshua M. Susskind, Oncel Tuzel
arXiv, 2025.
- [12] IllumiNeRF: 3D Relighting Without Inverse Rendering.
Xiaoming Zhao, Pratul P. Srinivasan, Dor Verbin, Keunhong Park, Ricardo Martin Brualla, Philipp Henzler.
In *Neural Information Processing Systems (NeurIPS)*, 2024.
- [11] GoMAvatar: Efficient Animatable Human Modeling from Monocular Video Using Gaussians-on-Mesh.
Jing Wen, Xiaoming Zhao, Zhongzheng Ren, Alexander G. Schwing, Shenlong Wang.
In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.
- [10] NeRFDeformer: NeRF Transformation from a Single View via 3D Scene Flows.
Zhenggang Tang, Zhongzheng Ren, Xiaoming Zhao, Bowen Wen, Jonathan Tremblay, Stan Birchfield, Alexander G. Schwing.
In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024.
- [9] Pseudo-Generalized Dynamic View Synthesis from a Video.
Xiaoming Zhao, Alex Colburn, Fangchang Ma, Miguel Ángel Bautista, Joshua M. Susskind, Alexander G. Schwing.
In *International Conference on Learning Representations (ICLR)*, 2024.
- [8] Occupancy Planes for Single-view RGB-D Human Reconstruction.
Xiaoming Zhao, Yuan-Ting Hu, Zhongzheng Ren, Alexander G. Schwing.
In *AAAI Conference on Artificial Intelligence (AAAI)*, 2023.
- [7] Generative Multiplane Images: Making a 2D GAN 3D-Aware.
Xiaoming Zhao, Fangchang Ma, David Güera, Zhile Ren, Alexander G. Schwing, Alex Colburn.
In *European Conference on Computer Vision (ECCV)*, 2022. **(Oral)**.
- [6] Initialization and Alignment for Adversarial Texture Optimization.
Xiaoming Zhao, Zhizhen Zhao, Alexander G. Schwing.
In *European Conference on Computer Vision (ECCV)*, 2022.
- [5] Class-agnostic Reconstruction of Dynamic Objects from Videos.
Zhongzheng Ren*, Xiaoming Zhao*, Alexander G. Schwing.
(* indicates equal contribution)
In *Neural Information Processing Systems (NeurIPS)*, 2021.
- [4] The Surprising Effectiveness of Visual Odometry Techniques for Embodied PointGoal Navigation.
Xiaoming Zhao, Harsh Agrawal, Dhruv Batra, Alexander G. Schwing.
In *International Conference on Computer Vision (ICCV)*, 2021.
- [3] Mitigating Data Scarcity in Protein Binding Prediction Using Meta-Learning.
Yunan Luo*, Jianzhu Ma*, Xiaoming Zhao, Yufeng Su, Yang Liu, Trey Ideker, Jian Peng.
In *Research in Computational Molecular Biology (RECOMB)*, 2019.
- [2] Integrating Thermodynamic and Sequence Contexts Improves Protein-RNA Binding Prediction.
Yufeng Su, Yunan Luo, Xiaoming Zhao, Yang Liu, Jian Peng.
PLOS Computational Biology, 2019.
- [1] Stochastic Variance Reduction for Deep Q-Learning.
Wei-Ye Zhao, Xi-Ya Guan, Yang Liu, Xiaoming Zhao, Jian Peng.
arXiv, 2019.

PATENTS	[1] Relightable 3D Reconstruction and View Synthesis. Philipp Henzler, Ricardo Martin Brualla, Xiaoming Zhao , Pratul Preeti Srinivasan, Dor Verbin, Keunhong Park. <i>US Patent 20250378633A1 (pending)</i> , 2025.	
AWARDS AND HONORS	Professional Services CVPR Outstanding Reviewer	2025
	University of Illinois Urbana-Champaign University nomination (one of three) for 2023 Apple Scholars in AI/ML	2022
	Graduate Student SSBG Fellowship	2020
	University of Science and Technology of China Outstanding Graduates	2016
	Outstanding Undergraduate Scholarship	2013, 2015
	Seagate Scholarship	2014
	Outstanding Freshman Scholarship	2012
	Ministry of Education, China Honorable received waiver for the National College Entrance Exam	2012
	Chinese Chemical Society Silver Medalist nation-wide, the 25 th Chinese Chemistry Olympiad	2011
SERVICES	Area Chair for International Conferences IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	2026
	Reviewer for Journals IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	2023 - present
	IEEE Transactions on Visualization and Computer Graphics (TVCG)	2024 - present
	International Journal of Computer Vision (IJCV)	2023 - present
	ACM Computing Surveys	2024 - present
	Reviewer for International Conferences IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	2022 - present
	International Conference on Computer Vision (ICCV)	2023 - present
	European Conference on Computer Vision (ECCV)	2024 - present
	Neural Information Processing Systems (NeurIPS)	2022 - present
	International Conference on Machine Learning (ICML)	2022 - present
	International Conference on Learning Representations (ICLR)	2023 - present
	ACM SIGGRAPH Asia	2025 - present
	Annual Conference of the European Association for Computer Graphics (EG)	2024 - present
	AAAI Conference on Artificial Intelligence (AAAI)	2023, 2026
	IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	2024
TALKS	Harnessing “Dark” Data Waymo Research, Adobe, Figma, xAI, Amazon, Google	09/2024
	Microsoft Applied Science, Apple Machine Learning Research, ByteDance	08/2024
	Google DeepMind	07/2024
	IllumiNeRF: 3D Relighting without Inverse Rendering Google	07/2024

Towards Automatic 3D-Consistent Content Generation

Adobe Research

03/2024

Pseudo-Generalized Dynamic View Synthesis from a VideoApple
Google06/2024
01/2024**Generative Multiplane Images**

Meta

08/2022

TEACHING**University of Illinois Urbana-Champaign**CS588: Autonomous Vehicle System Engineering
CS446/ECE449: Machine Learning
CS440/ECE448: Artificial Intelligence
CS498AML: Applied Machine Learning
CS598BL: Special Topics on Adversarial Machine LearningFall 2021
Spring 2021
Fall 2020
Spring 2019
Fall 2018