




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	<p>[1] Relightable 3D Reconstruction and View Synthesis. Philippp Henzler, Ricardo Martin Brualla, Xiaoming Zhao, Pratul Preeti Srinivasan, Dor Verbin, Keunhong Park. <i>US Patent 20250378633A1 (pending)</i>, 2025.</p>	
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 Honorably 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 Video

Apple 06/2024

Google 01/2024

Generative Multiplane Images

Meta 08/2022

TEACHING

University of Illinois Urbana-Champaign

CS588: Autonomous Vehicle System Engineering Fall 2021

CS446/ECE449: Machine Learning Spring 2021

CS440/ECE448: Artificial Intelligence Fall 2020

CS498AML: Applied Machine Learning Spring 2019

CS598BL: Special Topics on Adversarial Machine Learning Fall 2018