

XIAOMING ZHAO

CONTACT	Mailing address available upon request.	 +1-773-668-4160  xiaoming.zhao9@gmail.com  https://xiaoming-zhao.com/
INTERESTS	Multimodal intelligence, computer vision, generative models, and machine learning.	
EDUCATION	University of Illinois Urbana-Champaign , Urbana, IL, USA Doctor of Philosophy in Computer Science Advisor: Prof. Alexander Schwing Thesis: Harnessing Data Priors to Mitigate 3D Data Scarcity 08/2019 - 12/2024 Master of Science in Computer Science Advisor: Prof. Jian Peng 08/2017 - 05/2019 University of Science and Technology of China , Hefei, Anhui, China Bachelor of Science in Statistics 09/2012 - 07/2016	
EMPLOYMENTS	Apple , Cupertino, CA, USA Senior Research Scientist @ Foundation Model (AFM) Team Research Scientist @ Foundation Model (AFM) Team Research Scientist @ Machine Learning Research (MLR) Team 10/2026 - present 02/2026 - 09/2026 12/2024 - 02/2026 Google , San Francisco, CA, USA Research Intern (<i>with Keunhong Park, Philipp Henzler, Pratul Srinivasan, Dor Verbin, Ricardo Martin-Brualla</i>) 09/2023 - 08/2024 Apple , Seattle, WA, USA Research Intern (<i>with Alexander Schwing and Alex Colburn</i>) 02/2023 - 09/2023 Reality Labs, Meta , Seattle, WA, USA Research Scientist Intern (<i>with Shunsuke Saito, Minh P. Vo, Jia-Bin Huang</i>) 05/2022 - 12/2022 Apple , Seattle, WA, USA Machine Learning Research Intern (<i>with Alex Colburn and Fangchang Ma</i>) 05/2021 - 05/2022 Kuaishou US R&D Center , Bellevue, WA, USA Research Intern (<i>with Ji Liu</i>) 05/2019 - 08/2019 Tencent AI Lab , Bellevue, WA, USA Machine Learning Researcher Intern (<i>with Boqing Gong</i>) 05/2018 - 08/2018	
PRODUCTS	[1] Third Generation of Apple's Foundation Models (AFM 3). Core contributor to post-training efforts, with a primary focus on on-policy distillation. In <i>Worldwide Developers Conference (WWDC)</i> , 2026.	
PUBLICATIONS	[17] Split-and-scale Latent 3D Representations. Dorian Chan, Muhammed Kocabas, Xiaoming Zhao , Oncel Tuzel, Jen-Hao Rick Chang. In <i>Neural Information Processing Systems (NeurIPS)</i> , 2026.	

- [16] Velox: Learning Representations of 4D Geometry and Appearance.
Anagh Malik, Dorian Chan, **Xiaoming Zhao**, David B. Lindell, Oncel Tuzel, Jen-Hao Rick Chang.
In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2026.
- [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 <i>International Conference on Computer Vision (ICCV)</i> , 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 <i>Research in Computational Molecular Biology (RECOMB)</i> , 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. <i>arXiv</i> , 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 Area Chair 2026 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, 2027 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	2026 - 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
TEACHING	Generative Multiplane Images	
	Meta	08/2022
	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