## XIAOMING ZHAO

Contact	⊠ xiaoming	)) +1-773-668-4160 zhao9@gmail.com aoming-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 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	
	<b>University of Science and Technology of China</b> , 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	
	<b>Google</b> , San Francisco, CA, USA Research Intern ( <i>with Keunhong Park, Philipp Henzler, Pratul Srinivasan, Dor Verbin, Ricardo</i> <i>Martin-Brualla</i> ) 09/2023 - 08/2024		
	<b>Apple</b> , Seattle, WA, USA Research Intern ( <i>with Alexander Schwing and Alex Colburn</i> )	02/2023 - 09/2023	
	<b>Reality Labs, Meta</b> , Seattle, WA, USA Research Scientist Intern ( <i>with Shunsuke Saito, Minh P. Vo, Jia-Bin Huang</i> )	05/2022 - 12/2022	
	<b>Apple</b> , 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	
	<b>Tencent AI Lab</b> , Bellevue, WA, USA Machine Learning Researcher Intern ( <i>with Boqing Gong</i> )	05/2018 - 08/2018	
Publications	<ul> <li>[11] IllumiNeRF: 3D Relighting without Inverse Rendering.</li> <li>Xiaoming Zhao, Pratul P. Srinivasan, Dor Verbin, Keunhong Park, Ricardo Martin Brualla, Philipp Henzler.</li> <li>In Neural Information Processing Systems (NeurIPS), 2024.</li> </ul>		
	<ul> <li>[10] GoMAvatar: Efficient Animatable Human Modeling from Monocular Video Using Gaussians- on-Mesh.</li> <li>Jing Wen, Xiaoming Zhao, Zhongzheng Ren, Alexander G. Schwing, Shenlong Wang.</li> <li>In IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024.</li> </ul>		

- [9] 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.
- [8] 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.
- [7] 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.
- [6] 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).

- [5] Initialization and Alignment for Adversarial Texture Optimization.
   Xiaoming Zhao, Zhizhen Zhao, Alexander G. Schwing.
   In European Conference on Computer Vision (ECCV), 2022.
- [4] 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.
- [3] 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.
- [2] Mitigating Data Scarcity in Protein Binding Prediction Using Meta-Learning.
   Yunan Luo\*, Jianzhu Ma\*, Xiaoming Zhao, Yufeng Su, Yang Liu, Trey Ideker, Jian Peng.
   (\* indicates equal contribution)
   In Research in Computational Molecular Biology (RECOMB), 2019.
- Integrating Thermodynamic and Sequence Contexts Improves Protein-RNA Binding Prediction.
   Yufeng Su, Yunan Luo, Xiaoming Zhao, Yang Liu, Jian Peng.
   PLOS Computational Biology, 2019.

 WORKSHOPS
 [2] Learning from Synthesized Demonstrations.

 Xiaoming Zhao, Yang Liu, Jian Peng.

 In ICML Workshop on Learning in Artificial Open Worlds (ICML-W), 2020.

Approximation Gradient Error Variance Reduced Optimization.
 Wei-Ye Zhao, Yang Liu, Xiaoming Zhao, Jie-Lin Qiu, Jian Peng.
 In AAAI Workshop on Reinforcement Learning in Games (AAAI-W), 2019.

## TALKS Harnessing "Dark" Data 09/2024 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 Google	06/2024 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 Learning	Fall 2021 Spring 2021 Fall 2020 Spring 2019 Fall 2018
Awards and	University of Illinois Urbana-Champaign	
Honors	University nomination (one of three) for 2023 Apple Scholars in Al/ML Graduate Student SSBG Fellowship	2022 2020
	University of Science and Technology of China	
	Outstanding Graduates Outstanding Undergraduate Scholarship Seagate Scholarship Outstanding Freshman Scholarship	2016 2013, 2015 2014 2012
	Ministry of Education, China	
	Honorably received waiver for the National College Entrance Exam	2012
	Chinese Chemical Society	
	Silver Medalist nation-wide, the $25^{\text{th}}$ Chinese Chemistry Olympiad	2011
Services	Reviewing for Journals	
	IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) IEEE Transactions on Visualization and Computer Graphics (TVCG) International Journal of Computer Vision (IJCV) ACM Computing Surveys	2023 - present 2024 - present 2023 - present 2024 - present
	Reviewing for International Conferences	
	<ul> <li>IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</li> <li>International Conference on Computer Vision (ICCV)</li> <li>European Conference on Computer Vision (ECCV)</li> <li>Neural Information Processing Systems (NeurIPS)</li> <li>International Conference on Machine Learning (ICML)</li> <li>International Conference on Learning Representations (ICLR)</li> <li>Annual Conference of the European Association for Computer Graphics (EG)</li> <li>AAAI Conference on Artificial Intelligence (AAAI)</li> <li>IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)</li> </ul>	2022 - present 2023 - present 2024 - present 2022 - present 2022 - present 2023 - present 2024 - present 2023 2024