Qingqing Zhao

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Education

09/20–05/25 **Ph.D. in Electrical Engineering**, *Stanford University, Stanford, CA.*
- Advisor: Prof. Gordon Wetzstein
- Thesis: Building Embodied Characters in Digital and Physical Worlds
- Expected Date of Graduation: April 2025

09/18–09/19 **Yale Visiting International Student Program**, Yale University, New Haven, CT.

09/16–05/20 **B.Sc. in Physics**, The University of Hong Kong, HK .

Experience

06/24–09/24 **NVIDIA**, *Research Intern.*
- **Host:** Dr. Ming-Yu Liu, Dr. Tsung-Yi Lin, Dr. Yao Lu
- Visual-Language-Action Model; Multimodal Large Language Models; Chain-of-Thought

06/23–09/23 **Apple Inc.**, *Research Intern.*
- **Host:** Dr. Ray Ptucha, Dr. Adam Backer, Dr. Cheng-Hsun Wu
- AI + Physics for Generative Design (NDA)

06/22–09/22 **Mitsubishi Electric Research Laboratories**, *Research Intern.*
- **Host:** Dr. Hassan Mansour
- Developed ML-solution for real-world radar imaging problem for underground imaging with complex background structures.

01/19–09/20 **Miller's Group**, *Department of Applied Physics, Yale University, CT.*
- **Advisor:** Prof. Owen D. Miller
- Developed a computational method for calculating theoretical lower bounds for mode volume under full Maxwell constraints.

Publications and Posters

- **Visual Chain-of-Thought Reasoning for Vision-Language-Action Models**, Qingqing Zhao, Yao Lu, Moo Jin Kim, Zipeng Fu, Zhuoyang Zhang, Yecheng Wu, Max Li, Qianli Ma, Han Song, Chelsea Finn, Ankur Handa, Donglai Xiang, Gordon Wetzstein, Ming-Yu Liu, Tsung-Yi Lin, under submission

- **HumanPlus: Humanoid Shadowing and Imitation from Humans**, Zipeng Fu*, Qingqing Zhao*, Qi Wu*, Gordon Wetzstein, Chelsea Finn, CoRL 2024

- **PhysAvatar: Learning the Physics of Dressed 3D Avatars from Visual Observations**, Yang Zheng*, Qingqing Zhao*, Guandao Yang, Wang Yifan, Donglai Xiang, Florian Dubost, Dmitry Lagun, Thabo Beeler, Federico Tombari, Leonidas Guibas, Gordon Wetzstein, ECCV 2024

- **Neural Control Variates with Automatic Integration**, Zilu Li*, Guandao Yang*, Qingqing Zhao, Xi Deng, Leonidas Guibas, Bharath Hariharan, Gordon Wetzstein, SIGGRAPH 2024

- **Pose-to-Motion: Cross-Domain Motion Retargeting with Pose Prior** , Q. Zhao, P. Li, W. Yifan, O.Sorkine-Hornung, W. Gordon, Symposium on Computer Animation (SCA) 2024

- **Deep Born Operator Learning for Reflection Tomographic Imaging**, Q. Zhao, Y. Ma, P. T. Boufounos, S. Nabi, H. Mansour, International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2023

- **Learning Controllable Adaptive Simulation for Multi-scale Physics**, T. Wu*, T. Maruyama*, Q, Zhao*, G. Wetzstein, L. Jure, International Conference on Learning Representations (ICLR) 2023, Also in Conference on Neural Information Processing Systems (NeurIPS) 2022 AI4Science workshop

- **Learning to solve PDE-constrained inverse problems with graph networks**,Q. Zhao, D. Lindell, G. Wetzstein, International Conference on Machine Learning (ICML) 2022, Also in International Conference on Machine Learning (ICML) 2022 AI4Science workshop

- **Minimum Dielectric-Resonator Mode Volumes,** (under-review: Physical Review Letters) Q. Zhao, L. Zhang and O. D. Miller, https://arxiv.org/abs/2008.13241

- β**-decay spectroscopy of** ^{27}S**,** L. J. Sun et al. (RIBLL Collaboration), Phys. Rev. C 99, 064312, DOI: 10.1103 / PhysRevC.99.064312

Honors & Awards

2024	**CoRL 2024 Best Paper Finalist**.
2020	**Stanford School of Engineering Fellowship**.
2016-2020	**HKU Foundation Scholarship**.
	- Scholarship for outstanding freshmen; cover four years' tuition with allowances (USD 24,000/year)
2017-2020	**Dr. P.M. Hui Memorial Scholarship**.
	- Scholarship for outstanding student in Physics
2018-2019	**HKU Worldwide Undergraduate Student Exchange Scholarship**.
	- Scholarship for study abroad programs at Yale (USD 12,000)
2017-2019	**HKU Summer Research Fellowship**.
	- Fellowship for conducting summer research (USD 2,000)
2017-2018	**Li Po Kwai Scholarship**.
	- Scholarship for top two sophomores majoring in Physics
2016-2018	**Lam Chi Him Memorial Prize in Physics** .
2016-2018	**Dean's Honors List**.
	- for students who are within the top 10% of their class

Professional Services

reviewer of ICLR, CVPR, ICML, ECCV, NeurIPS.