

Qingqing Zhao

Curriculum Vitae

Stanford, CA 94305-2004

+1 650 441 5512

✉ cyanzhao@stanford.edu

📄 <https://qingqing-zhao.github.io/>

Education

- since 09/20 **Ph.D. Student in Electrical Engineering**, *Stanford University, Stanford, CA.*
 - Advisor: Prof. Gordon Wetzstein, GPA: 4.04
- 09/18–09/19 **Yale Visiting International Student Program**, Yale University, New Haven, CT.
 - GPA 4.0
- 09/16–05/20 **B.Sc. in Physics**, The University of Hong Kong, HK .
 - GPA 4.0

Education and Experience

- Since 09/20 **Stanford Computational Imaging Lab**, *Stanford University, Stanford, CA.*
 - **Advisor:** Prof. Gordon Wetzstein
 - ML for dynamic modeling and character animation in the virtual and physical worlds.
- 06/24–09/24 **Nvidia**, *PhD Intern.*
 - **Host:** Dr. Ming-Yu Liu, Dr. Donglai Xiang
- 06/23–09/23 **Apple Inc.**, *PhD 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**, *PhD 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.
- 07/18–08/18 **RIKEN Research Institute**, Nishina School for Nuclear Physics, Japan.
 - Performed activation experiment for 2MeV $^{12}\text{C}(p,)^{13}\text{N}$ reaction using RIKEN accelerators and detectors and analyzed the data
- 06/17–07/18 **Nuclear Physics Lab**, The University of Hong Kong, HK.
 - **Advisor:** Prof. Jenny Lee and Dr. Xinxing Xu
 - Analyzed the experimental data of ^{28}S using ROOT (a modular scientific software toolkit written in C++) and reconstructed the partial beta-delayed proton emission decay scheme of ^{28}S from the experimental data.

Publications and Posters

- **HumanPlus: Humanoid Shadowing and Imitation from Humans**, Zipeng Fu*, Qingqing Zhao*, Qi Wu*, Gordon Wetzstein, Chelsea Finn, In submission 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}Si** , L. J. Sun et al. (RIBLL Collaboration), Phys. Rev. C 99, 064312, DOI: 10.1103 / PhysRevC.99.064312

Honors & Awards

- 2020-2021 **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