HAN QI

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RESEARCH INTERESTS

I am interested in designing robot learning algorithms that robustly generalize from large amounts of data and rapidly adapt using small amounts of data in new environments.

EDUCATION

Harvard University *Aug 2023—Now*
Ph.D. in Computer Science, advised by Prof. Heng Yang
GPA: 3.945/4.0

University of California, Berkeley *Aug 2019—Dec 2022*
B.A. in Computer Science with Highest Distinction in General Scholarship
GPA: 4.0/4.0

PUBLICATIONS

(*Co-first authors)

[1] **Qi, Han***, Yin, Haocheng*, Du, Yilun, and Yang, Heng, "Strengthening generative robot policies through predictive world modeling," *arXiv preprint arXiv:2502.00622*, 2025.

[2] **Qi, Han***, Yin, Haocheng*, and Yang, Heng, "Control-oriented clustering of visual latent representation," *International Conference on Learning Representations (ICLR)*, 2025, Spotlight.

[3] Gao, Yihuai, Tang, Yukai, **Qi, Han**, and Yang, Heng, "Closure: Fast quantification of pose uncertainty sets," *Robotics: Science and Systems (RSS)*, 2024.

[4] **Qi, Han**, Rando, Stefano, Geng, Xinyang, Ohama, Iku, Kumar, Aviral, and Levine, Sergey, "Latent conservative objective models for offline data-driven crystal structure prediction," *ICLR 2023 ML4Materials workshop*, 2023.

[5] Wang, Frederic*, **Qi, Han***, De Goyeneche, Alfredo, Heckel, Reinhard, Lustig, Michael, and Shimron, Efrat, "K-band: Self-supervised mri reconstruction via stochastic gradient descent over k-space subsets," *International Society for Magnetic Resonance in Medicine (ISMRM) (Oral presentation)*, 2023.

[6] Du, Xuezhi*, **Qi, Han***, Ji, Wenbin, *et al.*, "Construction of a colorectal cancer prognostic risk model and screening of prognostic risk genes using machine-learning algorithms," *Computational and Mathematical Methods in Medicine*, vol. 2022, no. 1, p. 9 408 839, 2022.

[7] **Qi, Han***, Su, Yi*, Kumar, Aviral*, and Levine, Sergey, "Data-driven offline decision-making via invariant representation learning," *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

HONORS AND AWARDS

- UC Berkeley's nomination for the CRA Outstanding Undergraduate Researcher Awards *2022-2023*
- Term Honor - Dean's List-College of Letters & Science *Fall 2020, Spring 2021*
- Intel Science and Engineering Fair (ISEF) finalist and the third-place winner of the AAAI Special Awards in Artificial Intelligence *2018*

TEACHING EXPERIENCE

Tutor for CS61A (The Structure and Interpretation of Computer Programs) *Fall 2020, Spring 2021*
Reader for EECS126 (Probability and Random Processes) *Spring 2021*
Teaching Assistant for EECS126 (Probability and Random Processes) *Fall 2021*
Teaching Assistant for CS186 (Introduction to Database Systems) *Fall 2022*

SKILLS

Tools and Technology	C, C++, Java, Python, SQL, JavaScript, HTML, Swift, Matlab, Pytorch, TensorFlow