HAN QI

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RESEARCH INTERESTS

My research focuses on developing efficient and interpretable frameworks for perception and decision-making. I believe that structured representations and architectures are essential within learning pipelines.

EDUCATION

Harvard University   Aug. 2023—Present
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

MAJOR PUBLICATIONS

(*Co-first authors)

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

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

[3] 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," in *International Society for Magnetic Resonance in Medicine (ISMRM)*, (pdf), Oral presentation, 2023.

[4] 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*, 2022, (pdf).

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

HONORS AND AWARDS

UC Berkeley's nomination for the CRA Outstanding Undergraduate Researcher Awards   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

SERVICES

Reviewer, Transactions on Machine Learning Research

Reviewer, ICLR 2025 Workshop on World Models

TEACHING EXPERIENCE

Teaching Assistant for CS 2281R (Topics in Foundations of ML: Mathematical & Engineering Principles for Training Foundation Models), Harvard University   Fall 2024

Teaching Assistant for CS186 (Introduction to Database Systems), UC Berkeley   Fall 2022

Teaching Assistant for EECS126 (Probability and Random Processes), UC Berkeley   Fall 2021

Reader for EECS126 (Probability and Random Processes), UC Berkeley   Spring 2021

Tutor for CS61A (The Structure and Interpretation of Computer Programs), UC Berkeley Fall 2020, Spring 2021

SKILLS

Tools and Technology	C, C++, Java, Python, SQL, JavaScript, HTML, Swift, Matlab, Pytorch, TensorFlow
Hobby	Figure Skating (Competitive Skater on the Harvard Figure Skating Team)