

Jubayer Ibn Hamid

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<https://jubayer-ibn-hamid.github.io/>

EDUCATION

Stanford University

Ph.D., Computer Science

M.S., Computer Science

B.S., Mathematical Physics

Stanford, CA

Sept, 2025-Present

April, 2024 - June, 2025

Sept, 2019 - March, 2024

EXPERIENCE

Stanford Artificial Intelligence Laboratory

Researcher (IRIS Lab)

Stanford, CA

Jan, 2023-Present

- Supervisor: Prof. Chelsea Finn (Jan, 2023-Present), Prof. Dorsa Sadigh (March, 2025-Present)
- Reinforcement learning, generative modeling, representation learning and robotics.

Stanford Applied Physics

Researcher (Stanford LIGO Group)

Stanford, CA

June 2022-Sept. 2022

- Supervisor: Prof. Riccardo Bassiri
- Designing reduced thermal noise coatings for LIGO using material character characterizations for amorphous thin films.

Kavli Institute for Particle Astrophysics and Cosmology

Researcher

Stanford, CA

June 2021-Sept. 2021

- Supervisor: Prof. Chao-Lin Kuo
- Designing novel conic-shell cavities for axion detection.

PUBLICATIONS

* denotes co-first authorship.

- [3] Yuejiang Liu*, **Jubayer Ibn Hamid***, Annie Xie, Yoonho Lee, Max Du, Chelsea Finn. Bidirectional Decoding: Improving Action Chunking via Closed-Loop Resampling. *International Conference on Learning Representations (ICLR) 2025*. <https://arxiv.org/abs/2408.17355>.
- [2] Kyle Hsu*, **Jubayer Ibn Hamid***, Kaylee Burns, Chelsea Finn, Jiajun Wu. Tripod: Three Complementary Inductive Biases for Disentangled Representation Learning. *International Conference on Machine Learning (ICML) 2024*. <https://arxiv.org/abs/2404.10282>
- [1] Kaylee Burns, Zach Witzel, **Jubayer Ibn Hamid**, Tianhe Yu, Chelsea Finn, Karol Hausman. What Makes Pre-trained Visual Representations Successful for Robust Manipulation. *Conference on Robot Learning (CoRL) 2024*. <https://arxiv.org/pdf/2312.12444.pdf>

RELEVANT COURSEWORK

Computer Science: Reinforcement Learning, Natural Language Processing with Deep Learning, Deep Generative Models, Machine Learning, Deep Learning, Artificial Intelligence.

Mathematics: Algebraic Geometry, Abstract Algebra (group theory, ring theory, representation theory, module theory), Differential Topology, Real Analysis, Complex Analysis, Differential Geometry, Convex Optimization, Modern Statistical Learning.

Physics: Quantum Field Theory, Quantum Mechanics, Lagrangian/Hamiltonian Mechanics, Statistical Mechanics, Electrodynamics.

TEACHING

Stanford CS 224R: Deep Reinforcement Learning

Head Course Assistant

Stanford, CA

Spring, 2025

Stanford CS 229: Machine Learning

Course Assistant

Stanford, CA

Winter, 2025

TALKS

2025:

- Bidirectional Decoding: Improving Action Chunking via Closed-Loop Resampling. *OpenAI Robotics*.