Jubayer Ibn Hamid

jubayer@stanford.edu
https://jubayer-ibn-hamid.github.io/

Education

Stanford University — Stanford, CA

- Ph.D., Computer Science — Sept 2025 – Present
  - Advisors: Prof. Dorsa Sadigh and Prof. Chelsea Finn
  - Topic: Reinforcement Learning
- M.S., Computer Science — Apr 2024 – Jun 2025
- B.S., Mathematical Physics — Sept 2019 – Mar 2024

Experience

Stanford Artificial Intelligence Laboratory — Stanford, CA

Researcher — *Jan, 2023-Present*

- Supervisor: Prof. Chelsea Finn (Jan, 2023-Present), Prof. Dorsa Sadigh (March, 2025-Present)
- Topics: Reinforcement Learning, Generative Modeling, Representation Learning and Robotics.

Stanford Applied Physics (Stanford LIGO Group) — Stanford, CA

Undergraduate Researcher — *June 2022-Sept. 2022*

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

Kavli Institute for Particle Astrophysics and Cosmology — Stanford, CA

Undergraduate Researcher — *June 2021-Sept. 2021*

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

Publications

* denotes co-first authorship.

[5] **Jubayer Ibn Hamid***, Ifdita Hasan Orney*, Ellen Xu, Chelsea Finn, Dorsa Sadigh. Polychromic Objectives for Reinforcement Learning. *International Conference on Learning Representations (ICLR) 2026.* https://arxiv.org/abs/2509.25424.

[4] Suvir Mirchandani*, Mia Tang*, Jiafei Duan, **Jubayer Ibn Hamid**, Michael Cho, Dorsa Sadigh. RoboCade: Gamifying Robot Data Collection. *Under Review in ICRA 2026.*

[3] Yuejiang Liu*, **Jubayer Ibn Hamid***, Annie Xie, Yoonho Lee, Max Du, Chelsea Finn. Bidirectional Decoding: Improving Action Chunking via Guided Test-Time Sampling. *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

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

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

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

Teaching

Stanford CS 224R: Deep Reinforcement Learning Stanford, CA
Head Course Assistant *Spring, 2025*

Stanford CS 229: Machine Learning Stanford, CA
Course Assistant *Winter, 2025*

Services

International Conference on Learning Representations (ICLR) 2026
Reviewer

Talks

2025:

- Bidirectional Decoding: Improving Action Chunking via Guided Test-Time Sampling. *OpenAI Robotics.*