Jubayer Ibn Hamid

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https://jubayer-hamid.github.io/

Education

Stanford University — Stanford, CA
M.S., Computer Science — *Jan, 2024-Present*
B.S., Mathematical Physics — *Sept, 2019 - Dec, 2023*

Experience

Stanford Artificial Intelligence Laboratory — Stanford, CA
Researcher (IRIS Lab) — *Jan, 2023-Present*

- Offline reinforcement learning, representation learning and generative modeling.

Stanford Applied Physics — Stanford, CA
Researcher (Stanford LIGO Group) — *June 2022-Sept. 2022*

- Designing reduced thermal noise coatings for LIGO using material character characterizations for amorphous thin films.

Kavli Institute for Particle Astrophysics and Cosmology — Stanford, CA
Researcher — *June 2021-Sept. 2021*

- 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. *arXiv preprint arXiv:2408.17355.* 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, Statistics Theory (decision theory, theory of point estimation and hypothesis testing).

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