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 in vision-language models and generative models.

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 Behavioral Sampling: Understanding and Improving Action Chunking for Generative Behavioral Cloning. *Under Review.*

[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 (2023). 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.

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

HONORS

- Vietnam World Universities Debating Championship Finalist (2024)
- World Highest, CAIE A-Levels Mathematics Examination (2018)
- IYMC Mathematics Competition Bronze Medalist (2017)