Jubayer Ibn Hamid

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

Education

Stanford University **CA, USA**
BS in Mathematical Physics *Sept, 2019- Dec, 2023*
Ms in Computer Science *Jan, 2024 - Present*

Experience

Stanford Artificial Intelligence Laboratory **CA, USA**
Researcher (IRIS Lab) *Jan, 2023 - Present*
Focus:
Representation Learning in vision-language models and generative models, offline reinforcement learning.

Stanford Applied Physics **CA, USA**
Researcher (Stanford LIGO Group) *June, 2022 - Sept, 2022*
Focus:
Designing reduced thermal noise coatings for LIGO using material character characterizations for amorphous thin films.

Kavli Institute for Particle Astrophysics and Cosmology **CA, USA**
Researcher *June, 2021 - Sept, 2021*
Focus:
Designing novel conic-shell cavities for axion detection

Publications (* denotes co-first authorship)

Kyle Hsu*, **Jubayer Ibn Hamid***, Kaylee Burns, Chelsea Finn, Jiajun Wu. *Tripod: Three Complementary Inductive Biases for Disentangled Representation Learning.* Under review in the International Conference on Machine Learning (ICML) 2024. https://arxiv.org/abs/2404.10282

Kaylee Burns, Zach Witzel, **Jubayer Ibn Hamid**, Tianhe Yu, Chelsea Finn, Karol Hausman. *What Makes Pre-trained Visual Representations Successful for Robust Manipulation.* arXiv preprint, 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.