# JIALI CUI

*Philadelphia, Pennsylvania, 19131*

📱 201-920-8593 | ✉ jcui7@stevens.edu | 🏠 jcui1224.github.io | 🎓 Google Scholar

## ABOUT ME

I am a Ph.D. student at Stevens Institute of Technology, advised by Dr. Tian Han.

My **research interest** can be summarized as:

- **Generative Probabilistic Model** (Energy-based model(EBM), Generator Model, Diffusion Probabilistic Model)
- **Unsupervised Learning, Semi-supervised Learning**
- **Representation Learning**

## PUBLICATION

**Learning Energy-based Model via Dual-MCMC Teaching.**

- **Jiali Cui**, Tian Han.
- *The 37th Conference on Neural Information Processing Systems (@ NeurIPS 2023)*
- Learning energy-based model (EBM) with complementary generator and inference model with Markov Chain Monte Carlo (MCMC) sampling for both the EBM and generator posterior.

**Learning Hierarchical Features with Joint Latent Space Energy-Based Prior.**

- **Jiali Cui**, Ying Nian Wu, Tian Han.
- *The IEEE/CVF International Conference on Computer Vision (@ ICCV 2023)*
- Learning energy-based (EBM) prior model of multi-layer latent variables for representation learning and disentanglement learning.

**Learning Joint Latent Space EBM Prior Model for Multi-layer Generator.**

- **Jiali Cui**, Ying Nian Wu, Tian Han.
- *The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2023 (@ CVPR 2023)*
- Learning joint energy-based (EBM) prior model with multi-layer generator model for image modelling and representation learning.

**Semi-supervised learning by latent space energy-based model of symbol-vector coupling.**

- Bo Pang, Erik Nijkamp, **Jiali Cui**, Tian Han, Ying Nian Wu.
- *Workshop on I Can't Believe It's Not Better (ICBINB) @ NeurIPS, 2020*
- Learning symbol-coupling energy-based (EBM) prior model for both the discriminative and generative tasks.

## EDUCATION

**Stevens Institute of Technology**                                    *Hoboken, NJ*

Ph.D. in Computer Science                                              *2021 – Now*

- **Teaching Assistant:** CS583. Deep Learning

**Stevens Institute of Technology**                                    *Hoboken, NJ*

M.S. in Computer Science                                               *2019 – 2021*

- **Course Assistant:** CS559. Machine Learning, CS515. Fundamentals of Computing

**Harbin Institute of Technology**                                     *Harbin, China*

B.S. in Computer Science                                               *2015 – 2019*

- **Thesis:** Colorizing Gray Image via Self-Attention Generative Adversarial Network
- **Selected Courses:** Programming Languages (Jave, Python, R, etc.), Deep Learning, Machine Learning, Statistical Machine Learning

## SERVICE

**Reviewer**    ECCV'22, AAAI'22, CVPR'23, NeurIPS'23, AAAI'24, ICLR'24, CVPR'24, ECCV'24