Haotian Xue

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🌐 http://xavihart.github.io/

Education

2018 – 2022	🔖	**B.E. Computer Science, Shanghai Jiao Tong University**, Shanghai Advisor: *Quanshi Zhang, Zhouhan Lin*
2022 – Now	🔖	**Ph.D. Machine Learning, Georgia Tech**, Atlanta Advisor: *Yongxin Chen*.

Employment History

2021.9 – 2021.12	🔖	**Research Intern,** Microsoft Research Asia Mentor: *Lei Cui*
2021.9 – 2022.12	🔖	**Viting Research Intern,** MIT CSAIL Mentor: *Josh Tenenbaum, Yunzhu Li*
2022.9 – Now	🔖	**Graduate Research Assistant,** Georgia Tech Mentor: *Yongxin Chen*

Research Publications

* indicate equal contribution

1. **H. Xue**, A. Araujo, B. Hu, and Y. Chen, "Diffusion-based adversarial sample generation for improved stealthiness and controllability," *NeurIPS*, 2023.

2. **H. Xue** and Y. Chen, "Towards effective protection against diffusion-based mimicry through score distillation," *In Submission*, 2023.

3. **H. Xue**, A. Torralba, J. Tenenbaum, D. Yamins, Y. Li, and H. Tung, "3d-intphys: Towards more generalized 3d-grounded visual intuitive physics under challenging scenes," *NeurIPS*, 2023.

4. S. Hou, J. Kai*, Y. Zhang*, **H. Xue***, X. Wang, and Z. Lin, "Learning to adaptively incorporate external syntax through gated self-attention," *[In submission]*, 2022.

5. S. Hou*, J. Kai*, **H. Xue***, *et al.*, "Syntax-guided localized self-attention by constituency syntactic distance," *EMNLP*, 2022.

6. **H. Xue** and N. Ye, "Active adversarial learning," *Bachelor Thesis*, 2022.

7. X. Cheng, X. Wang*, **H. Xue***, Z. Liang, and Q. Zhang, "A hypothesis for the aesthetic appreciation in neural networks," *arXiv preprint arXiv:2108.02646*, 2021.

8. H. Zhang, **H. Xue**, J. Chen, Y. Chen, W. Shen, and Q. Zhang, "Evaluation of attribution explanations without ground truth," *[In submission]*, 2021.

Skills

Coding	🔖	Python, C++, LaTeX, Pytorch, Fairseq, Numpy, Jax, Gym, HTML
Miscs	🔖	Piano, Football…

Academic Services

Reviewing for ICML2022, NeurIPS2022, ICML2023, NeurIPS2023, ICLR2024