

Haotian Xue

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🔗 <https://github.com/xavihart>

🌐 <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 📖 **Visiting 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++, L^AT_EX, Pytorch, Fairseq, Numpy, Jax, Gym, HTML
- Miscs 📖 Piano, Football...

Academic Services

Reviewing for ICML2022, NeurIPS2022, ICML2023, NeurIPS2023, ICLR2024