Junior Student @ CS. SJTU

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EDUCATION

• Shanghai Jiao Tong University

Shanghai, China

Bachelor of Science in Computer Science; GPA: 88.5/100, maths related: 91.4/100 Sept. 2018 – June 2022 (Expected)
Relevant Coursework: Mathematical Analysis, Artificial Intelligence, Computer Graphics, Digital Image Processing,
Computer Network, Operating System, Computer Architecture and Organization, Algorithm and Complexity, Data
Structure, Discrete Mathematics, Linear Algebra, Probability and Statistics

EXPERIENCE

• John Hopcroft Center for Computer Science

Shanghai, China

Explainable Artificial Intelligence, Research Intern, tutored by Prof. Quanshi Zhang

Jun 2019 - Now

- Work on proposing a set of criteria to evaluate the objectiveness of explanation methods of neural networks, and design four metrics to evaluate explanation results without ground-truth explanations based on Shapley value in game theory(Submitted to CVPR2021).
- Work on explaining for overfitting and generalization in deep learning based on multi-player interaction in game theory (ongoing).

• Zhiyuan Honor Program of Engineering

Shanghai, CN

Sept. 2018 - Now

- Complete all Honor credits for science subjects, including A+(only one in class) in Mathematical Analysis(1) and A(top 5) in Mathematical Analysis(2).
- Complete all Honor credits for engineering subjects including Data Structure instructed by Prof. Yong Yu. I gained a lot from this course.
- \circ Complete almost all Computer Science courses in CS Dept, get a GPA of 92.11/100 in the learned CS subjects, including Mathematical foundations of computer science (rank 1/80), Operating System, Computer Architecture and Organization

Research Interests

- Explainable Artificial Intelligence(*): Including explainable CNNs, explainable GANs, unsupervised semanticization of pre-trained neural networks, evaluation of present explaining methods, mechanism for generalization of DNNs
- Computer Vision: Including traditional methods of image processing, fancy deep learning based methods for image classification, detection and segmentation, and more important, what vision concepts are actually learned by the models

Publications/Preprints

Hao Zhang, Jiayi Chen, **Haotian Xue** and Quanshi Zhang, *Towards a Unified Evaluation of Explanation Methods without Ground Truth* [arXiv:1911.09017]

Selected Projects

- Deque and B+ Tree: Implementation of Deque and B+ Tree data structure in C++ in Data Structure class in Zhiyuan College tutored by Prof. Yong Yu.
- ICM-2020 project: nMAT: a network-based assessment system for soccer game with teammates. Got the Meritorious Awards in ICM-2020.
- CS214 course project: Build a Genetic Algorithm solution combined with local search for problems in customized bus-booking platform in project of CS214, tutored by Prof. Xiaofeng Gao.

AWARDS

- Zhiyuan College Honors Scholarship (CN ¥15000, Top5%):
- Singapore Technologies Engineering Scholarship (CN ¥5000, Top 20%):
- Zhiyuan College Excellent Scholarship (Class C, CN ¥1000):