LI ZENAN

Emiyalzn@gmail.com | Emiyalzn | Emiyalzn.github.io | +86 17326004258

Education

Tsinghua University, IIIS Beijing, China
Ph.D. in Computer Science MARSLab Advised by Prof. Hang Zhao *September 2023 – 2028 (expected)*

Shanghai Jiao Tong University Shanghai, China
B. Eng. in Computer Science *September 2019 – June 2023*

- GPA 94.07/100 (or 4.13/4.3), Rank 1/120
- The first prize in the 11^{st} Chinese Mathematics Competition, Rank 5^{th} in Shanghai
- Sensetime Fellowship (only 30 undergraduates worldwide each year), Rongchang Scholarship (only 30 undergraduates in SJTU each year), Lixin Tang Scholarship, Huawei Fellowship, Zhiyuan Honor Scholarship
- Outstanding Graduate of SJTU, Outstanding Graduation Thesis in SJTU (1%, advised by Prof. Junchi Yan)
- Achieved A+ on more than 30 courses, including specialized courses (Operating System, Computer Architecture, Algorithm, Machine Learning, etc.) and all mathematical courses (Mathematical Analysis, Linear Algebra, Probabilistic Theory, etc.)
- I served as a reviewer for ICML'22, LoG'22, ICML'23 and NeurIPS'23.

Projects

- [Emiyalzn/GraphDE]: Official implementation for: Towards Debiased Learning and OOD Detection for Graph Data, which has been accepted by NeurIPS'22.
- [Emiyalzn/ICML22-CRB]: Official implementation for: On Collective Robustness of Bagging Against Data Poisoning, which has been accepted by ICML'22.
- [Emiyalzn/Sketch-Recognition]:We implement a series of free-hand sketch recognition baselines based on RNN or CNNs. Furthermore, we propose Trans2CNN, which outperforms all the other algorithms combining the power of Transformer and CNNs.
- [Emiyalzn/Model-Free-Control]:We test and compare some typical model-free RL control algorithms' performance on different environments in this repo. Specifically, we implement D3QN on Atari, SAC and PPO on MuJoCo.
- [Emiyalzn/Online-Bookstore]: An online bookstore application based on React (frontend) and Springboot (backend). Have implemented functionalities like cart management, order management and statistical visualization.
- [Emiyalzn/Eff-mQRCode]: Course project for CS339-Computer Networks. Reproduce the work: mQRCode in MobiCom'19, using Pix2PixGAN to raise mQRCodes' decryption speed and robustness by a large margin.

Experience

Research September 2020 – June 2023
Shanghai Jiao Tong University *ReThinklab, Advised by Prof. Junchi Yan*

- On Collective Robustness of Bagging Against Data Poisoning
  Ruoxin Chen, **Zenan Li**, Jie Li, Chentao Wu, Junchi Yan
  International Conference on Machine Learning (**ICML 2022**)
  2021.12 – 2022.05
- NodeFormer: A Scalable Graph Structure Learning Transformer for Node Classification
  Qitian Wu, **Zenan Li***, Wentao Zhao*, David Wipf, Junchi Yan (* denotes equal contribution)
  Advances in Neural Information Processing Systems (**NeurIPS 2022 Spotlight**)
  2021.10 – 2022.09

- GraphDE: A Generative Framework for Debiased Learning and Out-of-Distribution Detection on Graphs
  Zenan Li, Qitian Wu, Fan Nie, Junchi Yan
  Advances in Neural Information Processing Systems (**NeurIPS 2022**)
  2022.02 – 2022.09
- ROCO: A General Framework for Evaluating Robustness of Combinatorial Optimization Solvers on Graphs
  Han Lu*, **Zenan Li***, Runzhong Wang, Qibing Ren, Xijun Li, Mingxuan Yuan, Jia Zeng, Xiaokang Yang, Junchi Yan (* denotes equal contribution)
  International Conference on Learning Representations (**ICLR 2023**)
  2021.08 – 2023.01
- Evaluating Robustness of Subagging Algorithms Against Data Poisoning and Its Applications to Federated Learning
  Second Author
  Submitted to *IEEE Transactions on Pattern Analysis and Machine Intelligence* (**T-PAMI 2023**)
  2022.09 – Present

Internship August 2022 – June 2023

QCraft *Motion Planning Group, Advised by Fang Da, Chief Scientist of Qcraft*

- Boosting Offline Reinforcement Learning for Vehicle Planning with Hierarchical Latent Skills
  First Author
  Submitted to *Conference on Robot Learning* (**ICRA 2024**)
  2022.11 – Present
- UNREST: Uncertainty-Aware Decision Transformer for Stochastic Driving Environments
  First Author
  Submitted to *Conference on Robot Learning* (**ICLR 2024**)
  2023.02 – Present

Skills

Languages: Python, C/C++, JavaScript.
Technical Skills: React (frontend), SpringBoot (backend), Qt (software), MySQL (database).
Machine (Deep) Learning Related Knowledge:

- PyTorch (proficient), TensorFlow (able to read).
- Familiar with popular GNN/RL algorithms and widely-used network architectures.