

Fangyu Ding

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Education

- Shanghai Jiao Tong University** September 2021 – March 2024 (Expected)
Master of Engineering in Computer Science Shanghai, China
- GPA 3.70/4.0
 - Member of SJTU MoE Key Lab of AI, SJTU-ReThinkLab, advised by [Prof. Junchi Yan](#).
- Shanghai Jiao Tong University** September 2017 – June 2021
Bachelor of Engineering in Computer Science and Technology Shanghai, China
- Major GPA 88.9/100
- Liaoning Province Shiyuan High School** September 2014 – June 2017
Student with a Science Degree Liaoning, China
- Provincial First Prize, Chinese Physics Olympiad (CPhO), Liaoning, China, 2016.
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Publications

- **Fangyu Ding**, Haiyang Wang, Zhixuan Chu, Tianming Li, Junchi Yan.
GSINA: Improving Graph Invariant Learning via Graph Sinkhorn Attention, (Under Review)
 - **Fangyu Ding**, Junchi Yan, Haiyang Wang.
c-NTPP: Learning Cluster-Aware Neural Temporal Point Process, (AAAI 2023) [🔗](#) [📄](#)
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Work Experiences

- Ant Zhixin Information Technology Co., Ltd.** October 2022 – May 2023
Algorithm Engineer Intern. [cert] Hangzhou, China
- **Topics:** Graph Invariant Learning and Out-of-Distribution (OOD) Generalization.
 - We designed a Graph Invariant Learning (**GIL**) framework for Graph Neural Networks (**GNNs**) via invariant subgraph mining and the Optimal Transport (**OT**) theoretic differentiable top- k is leveraged to extract sparse, soft, and fully differentiable invariant subgraphs, which are our invariant subgraph extraction principles.
 - We conducted extensive experiments on both graph-level and node-level classification benchmarks (with various distribution shifts), and our approach can outperform the GIL baselines by large margins (up to $\approx 15\%$ for graph classification and up to $\approx 20\%$ for node classification).
- Alibaba Damo Technology Co., Ltd.** July 2021 – September 2021
Algorithm Engineer Intern. [cert] Hangzhou, China
- **Topics:** Event Sequence Learning and Sequential Variational Inference.
 - We designed a sequential variational autoencoder (**SVAE**) based deep sequential clustering method to mine the latent clusters (or subsequences) in event sequence, and neural temporal point process (**NTPP**) is leveraged to model the sequential data.
 - A novel cluster-aware attention mechanism is proposed to improve the **Transformer** based NTPP representation learning by considering the inherent cluster property of event sequence.
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Skills & Interests

Programming Languages: Python, C/C++, CUDA, SQL, Shell, Julia.

Frameworks: PyTorch, PyTorch-Geometric, Hugging Face.

Research Interests:

- Machine Learning for Graph and Sequential Data; Domain Generalization; Deep Probabilistic Models and Approximate Inference.
- Large Scale Machine Learning; Distributed Machine Learning Systems (e.g. for Large Language Models).

Updated on October 13, 2023