Yiming Sun

Curriculum Vitae

Department of Computing Engineering
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My Webpage

Education

2022–present **PhD, Computer Engineering**, *University of Pittsburgh*, US.
Research Area: Transfer Learning, Domain Generalization. Advisor: Ye Ye

2018–2022 **Bachelor of Science, Computer Science and Technology**, *University of Science and Technology of China*, China.
GPA: 90.5/100, Ranking: 9th/178. Selected awards: Excellent Student Scholarship Gold Award (top 3%)

Publications

2023 **Yiming Sun***, Runxue Bao*, Yuhe Gao, Jindong Wang, Qiang Yang, Haifeng Chen, Zhi-Hong Mao, Xing Xie, and Ye Ye. A survey of heterogeneous transfer learning. 2023.

2023 Qi Cheng, Mert Inan, Rahma Mbarki, Grace Grmek, Theresa Choi, **Yiming Sun**, Kimele Persaud, Jenny Wang, and Malihe Alikhani. Learning multimodal cues of children's uncertainty. In *Proceedings of the 24th Meeting of the Special Interest Group on Discourse and Dialogue*, pages 433–443, 2023.

2021 **Yiming Sun***, Zixing Song*, and Irwin King. Score-based graph generative model for neutrino events classification and reconstruction. In *Machine Learning and the Physical Sciences Workshop at Workshop at the 37th conference on Neural Information Processing Systems (NeurIPS)*, 2021.

Research Experience

Jul,2021 – Sept 2021 ***Neutrino Event Classification Using Graph Neural Networks***, Advised by Dr. Irwin King.
Developed research on Graph Neural Networks for neutrino event classification in IceCube. Enhanced graph construction using score-based generative models, improving downstream task performance. Presented findings at NeurIPS 2021's Machine Learning and Physical Sciences workshop.

Jan,2023 – Apr 2023 ***Automated Detection of Respiratory Infections Using Bayesian Networks***, Advised by Dr. Ye Ye and Dr. Gregory Cooper.
Engaged in research developing statistical techniques, including Bayesian networks, for automated detection and characterization of respiratory infections like Influenza and COVID-19.

Jan,2023 – Oct 2023 ***Heterogeneous Transfer Learning Survey***, Advised by Dr. Ye Ye.
Led a comprehensive survey on heterogeneous transfer learning, evaluating over 60 methods. Examined various techniques across multiple learning scenarios and applications. Addressed limitations of current studies to guide future research.

Work Experience

Fall, 2021 **Teaching Assistant**, *Foundation of Algorithms*, University of Science and Technology of China.

2022–present **Graduate Student Researcher**, University of Pittsburgh.