Chunhui Zhang

chunhuizhang@brandeis.edu
(+1) 7816521380
Volen Center, Brandeis University, 415 South St, Waltham, MA 02454
Personal Page

EDUCATION & EXPERIENCE

Ph.D. student, Computer Science — Sep. 2021 - Present
Brandeis University, Waltham, Massachusetts, US
the Michtom School of Computer Science
Advisors: Prof. Chuxu Zhang

B.S., Computer Science — Sep. 2017 - Jun. 2021
Northeastern University at Qinhuangdao, China
School of Computer and Communication Engineering
GPA: 89.02/100.00

Research Assistant — Nov. 2018-Aug. 2021
the Chinese University of Hong Kong, China
Shenzhen Research Institute of Big Data (SRIBD)
Advisors: Prof. Lei Cheng, Prof. Zhen Li
Work on neural architecture search and medical image segmentation

RESEARCH INTEREST

- Efficient Machine Learning
- Graph Neural Network
- Representation Learning

PAPER

- **Chunhui Zhang**, Yijun Tian, Mingxuan Ju, Zheyuan Liu, Yanfang Ye, Nitesh Chawla, and Chuxu Zhang. Chasing All-Round Graph Representation Robustness: Model, Training, and Optimization, *The 11th International Conference on Learning Representations (ICLR), 2023*.
- Zhichun Guo, **Chunhui Zhang**, Yujie Fan, Yijun Tian, Chuxu Zhang, and Nitesh Chawla. Boosting Graph Neural Networks via Adaptive Knowledge Distillation, *Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI), 2023*.
- Yijun Tian, Kaiwen Dong, **Chunhui Zhang**, Chuxu Zhang, and Nitesh Chawla. Heterogeneous Graph Masked Autoencoders, *Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI), 2023*.
- **Chunhui Zhang**, Chao Huang, Yijun Tian, Qianlong Wen, Zhongyu Ouyang, Youhuan Li, Yanfang Ye, Chuxu Zhang. Diving into Unified Data-Model Sparsity for Class-Imbalanced Graph Representation Learning, *Thirty-sixth Conference on Neural Information Processing Systems-New Frontiers in Graph Learning Workshop (NeurIPS GLFrontiers Workshop), 2022*.
- Qianlong Wen, Zhongyu Ouyang, **Chunhui Zhang**, Yiyue Qian, Yanfang Ye, Chuxu Zhang. Adversarial Cross-View Disentangled Graph Contrastive Learning, *Thirty-sixth Conference on Neural Information Processing Systems-New Frontiers in Graph Learning Workshop (NeurIPS GLFrontiers Workshop), 2022*.
- Han Yue, **Chunhui Zhang**, Chuxu Zhang, and Hongfu Liu. Label-invariant Augmentation for Semi-Supervised Graph Classification, *Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS), 2022*.
- Yiyue Qian, **Chunhui Zhang**, Yiming Zhang, Qianlong Wen, Yanfang Ye, and Chuxu Zhang. Co-Modality Imbalanced Graph Contrastive Learning, *Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS), 2022*.
- **Chunhui Zhang**, Chao Huang, Youhuan Li, Xiangliang Zhang, Yanfang Ye, and Chuxu Zhang. Look Twice as Much as You Say: Scene Graph Contrastive Learning for Self-Supervised Image Caption Generation, *ACM International Conference on Information and Knowledge Management (CIKM), 2022*.

- Jiele Wu, **Chunhui Zhang**, Zheyuan Liu, Erchi Zhang, Steven Wilson, and Chuxu Zhang. GraphBERT: Bridging Graph and Text for Malicious Behavior Detection on Social Media, *IEEE International Conference on Data Mining (ICDM), 2022*.
- Yijun Tian, Kaiwen Dong, **Chunhui Zhang**, Chuxu Zhang, Nitesh V. Chawla. Heterogeneous Graph Masked Autoencoders, *arXiv:2208.09957, 2022*.
- Zhichun Guo, **Chunhui Zhang**, Yujie Fan, Yijun Tian, Chuxu Zhang, Nitesh Chawla. Boosting Graph Neural Networks via Adaptive Knowledge Distillation, *arXiv:2210.05920, 2022*.
- **Chunhui Zhang***, Yongyuan Liang*, Yifan Jiang*. AdaSearch: Many-to-One Unified Neural Architecture Search via A Smooth Curriculum, *AAAI-22 Workshop: Learning Network Architecture During Training*.
- **Chunhui Zhang**, Xiaoming Yuan, Qianyun Zhang, Guangxu Zhu, Lei Cheng, and Ning Zhang. Towards Tailored Models on Private AIoT Devices: Federated Direct Neural Architecture Search, *IEEE Internet of Things Journal (IoTJ)*, Feb. 2022.
- Qin Wang, Weibing Zhao, **Chunhui Zhang**, Liyue Zhang, Changmiao Wang, Zhen Li, Shuguang Cui, Guanbin Li. 3d Enhanced Multi-scale Network For Thoracic Organs Segmentation, *IEEE International Symposium on Biomedical Imaging Challenge*, 2019

SKILLS

Programming Skills: C++, Python, PyTorch, MATLAB, Java
Operating System: Linux

ACTIVITIES

- Conference reviewer for NeurIPS2022, CIKM2022, ICDM2022, IEEE HPCC2020
- Journal reviewer for IEEE Transactions on Network Science and Engineering, Neurocomputing

AWARDS

- CIKM Travel Grant Award 2022

Latest Update: Dec. 2022