Yuning You

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EDUCATION

Texas A&M University, College Station Aug 2019 - Present
Ph.D. Student in Electrical Engineering
Supervisor: Prof. Yang Shen

Xian Jiaotong University, Xi'an Aug 2015 - Jun 2019
Bachelor of Engineering in Information Engineering
Undergraduate thesis supervisor: Dr. Gangming Lyu

SELECTED PAPERS

NeurIPS'20 [link]: **Y. You***, T. Chen*, Y. Sui, T. Chen, Z. Wang, Y. Shen. "Graph Contrastive Learning with Augmentations", *Conference on Neural Information Processing Systems.*

ICML'20 [link]: **Y. You***, T. Chen*, Z. Wang, Y. Shen. "When Does Self-Supervision Helps Graph Convolutional Networks?", *International Conference on Machine Learning.*

MLSB'20 [link]: **Y. You**, Y. Shen. "Cross-Modality Protein Embedding for Compound-Protein Affinity and Contact Prediction", *Machine Learning for Structural Biology Workshop, Conference on Neural Information Processing Systems.*

RESEARCH INTERESTS & SKILLS

My research focuses in but is not limited to **graph machine learning** and **self-supervised learning**. I can **program** on Python (also MATLAB and C) with **frameworks** PyTorch & Keras.

PROFESSIONAL EXPERIENCE

Graduate Research Assistant Sep 2020 - Present
Department of Electrical and Computer Engineering at Texas A&M University, College Station
Supervisor: Prof. Yang Shen
Research topics: Bioinformatics (to be determined)

Voluntary Research Assistant May 2019 - Aug 2019
Intelligence SciencE and systEm Lab (iSEE) at Sun Yat-Sen University, Guangzhou
Supervisor: Prof. Wei-Shi Zheng
Research topics: Graph convolutional networks; Skeleton-based action recognition

Voluntary Research Assistant Sep 2018 - Apr 2019
State Key Laboratory for Strength and Vibration of Mechanical Structures at Xi'an Jiaotong University, Xi'an
Supervisor: Dr. Gangming Lyu, Prof. Guiyan Rong
Research topics: Robust constructive interference precoding in MISO downlink transmission

Voluntary Research Assistant Jul 2018 - Aug 2018
Optical+Biomedical Engineering Laboratory (OBEL) at The University of Western Australia, Perth
Supervisors: Dr. Karol Karnowski, Prof. Barry Cense
Research topic: Optical coherence tomography

HONORS AND AWARDS

Electrical and Computer Engineering PhD Merit Fellowship, Texas A&M University Feb 2019

1st Prize in Shaanxi at Contemporary Undergraduate Mathematical Contest in Modeling, China Society for Industrial and Applied Mathematics Dec 2016

PUBLICATION

TVT'21 [link]: "Probabilistic Constructive Interference Precoding for Imperfect CSIT", G. Lyu, **Y. You**, A. Li, X. Liao, C. Masouros, *IEEE Transactions on Vehicular Technology.*

KDF'21 [link]: T. Wei, **Y. You**, T. Chen. "AR-Stock: Deep Augmented Relational Stock Prediction", *Knowledge Discovery from Unstructured Data in Financial Services Workshop, Association for the Advancement of Artificial Intelligence Conference.*

MLSB'20 [link]: **Y. You**, Y. Shen. "Cross-Modality Protein Embedding for Compound-Protein Affinity and Contact Prediction", *Machine Learning for Structural Biology Workshop, Conference on Neural Information Processing Systems.*

NeurIPS'20 [link]: **Y. You***, T. Chen*, Y. Sui, T. Chen, Z. Wang, Y. Shen. "Graph Contrastive Learning with Augmentations", *Conference on Neural Information Processing Systems.*

ICML'20 [link]: **Y. You***, T. Chen*, Z. Wang, Y. Shen. "When Does Self-Supervision Helps Graph Convolutional Networks?", *International Conference on Machine Learning.*

CVPR'20 [link]: **Y. You***, T. Chen*, Z. Wang, Y. Shen. "L^2-GCN: Layer-Wise and Learned Efficient Training of Graph Convolutional Networks", *IEEE/CVF Conference on Computer Vision and Pattern Recognition.*

arXiv'19 [link]: **Y. You**, G. Lyu. "Sphere Bounding Scheme for Probabilistic Robust Constructive Interference Precoding in MISO Downlink Transmission".

IPAS'18 [link]: G. Yang, **Y. You**, Z. Lu, J. Yang, Y. Wang. "An Optimization Approach of Compressive Sensing Recovery Using Split Quadratic Bregman Iteration with Smoothed l0 Norm", *IEEE International Conference on Image Processing, Applications and Systems.*