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

HIGHLIGHTED PUBLICATIONS

ICML'21 Long Presentation [link]: "Graph Contrastive Learning Automated", **Y. You**, T. Chen, Y. Shen, Z. Wang, *International Conference on Machine Learning*. (3.01% acceptance rate)

NeurIPS'20 [link]: "Graph Contrastive Learning with Augmentations", **Y. You***, T. Chen*, Y. Sui, T. Chen, Z. Wang, Y. Shen, *Conference on Neural Information Processing Systems*. (*equal contribution, 20.09% acceptance rate)

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

RESEARCH INTERESTS

My research focuses on **graph self-supervised learning** and its application on **drug discovery**.

PROFESSIONAL EXPERIENCE

Applied Scientist Intern Jun 2021 - Aug 2021
Product Semantics Team, Amazon.com Services, Inc., Remote
Supervisor: Dr. Tong Zhao
Research topics: Fine-grained product network embedding

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: Graph machine learning, drug discovery

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 network, skeleton-based action recognition

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

TALKS & SERVICES

Technical University of Munich, the Learning on Graphs and Geometry Reading Group (LoGaG), online. Aug 2021

ISMB/ECCB'21, COSI: Structural Bioinformatics and Computational Biophysics (3DSIG), online. [video] Jul 2021

ICML'21, Session of Semisupervised and Unsupervised Learning, online. [video] Jul 2021

Session chair of semisupervised and unsupervised learning at ICML'21.

Reviewer of ISMB/ECCB'21, ACM BCB'21, ICML'21, NeurIPS'21; TPAMI'21; NeurIPS'20 SSL workshop, WWW'21 SSL workshop, ICML'21 SSL workshop.

HONORS & AWARDS

Texas A&M University, Dwight Look College of Engineering, Electrical and Computer Engineering PhD Merit Fellowship. Feb 2019

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

PUBLICATIONS

ICML'21 Long Presentation [link]: "Graph Contrastive Learning Automated", **Y. You**, T. Chen, Y. Shen, Z. Wang, *International Conference on Machine Learning.* (3.01% acceptance rate)

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.* (impact factor 5.97)

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

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

NeurIPS'20 [link]: "Graph Contrastive Learning with Augmentations", **Y. You***, T. Chen*, Y. Sui, T. Chen, Z. Wang, Y. Shen, *Conference on Neural Information Processing Systems.* (*equal contribution, 20.09% acceptance rate)

ICML'20 [link]: "When Does Self-Supervision Helps Graph Convolutional Networks?", **Y. You***, T. Chen*, Z. Wang, Y. Shen, *International Conference on Machine Learning.* (*equal contribution, 21.80% acceptance rate)

CVPR'20 [link]: "L^2-GCN: Layer-Wise and Learned Efficient Training of Graph Convolutional Networks", **Y. You***, T. Chen*, Z. Wang, Y. Shen, *IEEE/CVF Conference on Computer Vision and Pattern Recognition.* (*equal contribution, 22.08% acceptance rate)

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

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