

Yuning You


Ph.D. Student at Texas A&M University

Email: yuning.you@tamu.edu ♦ Homepage: yyou1996.github.io


RESEARCH INTERESTS


Machine learning on non-Euclidean data (e.g. **graphs**) with limited labels and distribution shifts, with fundamental understanding in theory and challenging real-world applications to **biomedicines**.

EDUCATION & PROFESSIONAL EXPERIENCES

 **Texas A&M University**, College Station Aug 2019 – Present
Ph.D. Student in Electrical Engineering
Graduate Research Assistant in Department of Electrical and Computer Engineering
Advisor: Prof. [Yang Shen](#) & (Co-Advisor) Prof. [Zhangyang Wang](#)
Research Topic: Graph Machine Learning, Computational Drug Discovery

 **Xi'an Jiaotong University**, Xi'an Aug 2015 – Jun 2019
Bachelor of Engineering in Information Engineering

 **Genentech, Inc.**, South San Francisco May 2023 – Present
Early Clinical Development/AIML Intern in Genentech Research and Early Development (gRED)
Advisor: Dr. [Changlin Wan](#) & Dr. [Kai Liu](#); Research Topic: Spatial Transcriptomics

 **insitro, Inc.**, South San Francisco May 2022 – Aug 2022
ML Small Molecules Intern in Department of Data Science and Machine Learning
Advisor: Dr. [Bowen Liu](#) & [Ralph Ma](#); Research Topic: Bioactivity Signatures for Small-Molecules

 **Amazon.com Services, Inc.**, Remote Jun 2021 – Aug 2021
Applied Scientist Intern in Product Semantics Team
Advisor: Dr. [Tong Zhao](#); Research Topic: E-Commerce Product Network Embedding

 **Sun Yat-Sen University**, Guangzhou May 2019 - Aug 2019
Voluntary Research Assistant in Intelligence Science and System Lab (iSEE)
Advisor: Prof. [Wei-Shi Zheng](#) & [Yuanxun Li](#); Research Topic: Skeleton-Based Action Recognition

PUBLICATIONS ([1500+](#) Citations [\[Google Scholar\]](#))

Preprint'23 [\[link\]](#): “Critical Assessment of Variant Prioritization Methods for Rare Disease Diagnosis within the Rare Genomes Project”, ..., **Y. You**, ..., *medRxiv*.

IEEE Data Engineering Bulletin'23 [\[link\]](#): “Graph Contrastive Learning: An Odyssey towards Generalizable, Scalable and Principled Representation Learning on Graphs”, Y. Han, **Y. You**, W. Zheng, S. Hoang, T. Wei, M. Hassan, T. Chen, Y. Ding, Y. Shen, Z. Wang. (Invited Article)

ICLR'23 [\[link\]](#): “Graph Domain Adaptation via Theory-Grounded Spectral Regularization”, **Y. You**, T. Chen, Z. Wang, Y. Shen, *International Conference on Learning Representations*. (31.80% Acceptance Rate)

MLSB@NeurIPS'22 [\[link\]](#): “Does Inter-Protein Contact Prediction Benefit from Multi-Modal Data and Auxiliary Tasks?”, A. Talukder, R. Yin, Y. Sun, Y. Shen, **Y. You**, *Machine Learning for Structural Biology Workshop, Conference on Neural Information Processing Systems*.

NeurIPS'22 [\[link\]](#): “Augmentations in Hypergraph Contrastive Learning: Fabricated and Generative”, T. Wei*, **Y. You***, T. Chen, Y. Shen, J. He, Z. Wang, *Conference on Neural Information Processing Systems*. (*Equal Contribution, 25.60% Acceptance Rate)

Bioinformatics'22 [\[link\]](#): “Cross-Modality and Self-Supervised Protein Embedding for Compound-Protein Affinity and Contact Prediction”, **Y. You**, Y. Shen. (impact factor 6.93, MoML'22, ECCB'22 with 17.40% Acceptance Rate, 3DSIG COSI@ISMB/ECCB'21, MLSB@NeurIPS'20)

ICLR'22 [\[link\]](#): “Bayesian Modeling and Uncertainty Quantification for Learning to Optimize: What, Why, and How”, **Y. You**, Y. Cao, T. Chen, Z. Wang, Y. Shen, *International Conference on Learning Representations*. (32.29% Acceptance Rate)

WSDM'22 [\[link\]](#): “Bringing Your Own View: Graph Contrastive Learning without Prefabricated Data Augmentations”, **Y. You**, T. Chen, Z. Wang, Y. Shen, *ACM International Conference on Web Search and Data Mining*. (20.22% Acceptance Rate, **Starred 80+**)

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, **Cited 200+ Starred 80+**)

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@AAAI'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*.

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, **Cited 1000+ Starred 400+**)

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, **Cited 150+ Starred 100+**)

CVPR'20 [\[link\]](#): “L²-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)

IPAS'18 [\[link\]](#): “An Optimization Approach of Compressive Sensing Recovery Using Split Quadratic Bregman Iteration with Smoothed ℓ_0 Norm”, G. Yang, **Y. You**, Z. Lu, J. Yang, Y. Wang, *IEEE International Conference on Image Processing, Applications and Systems*.

HONORS & AWARDS

ECEN Quality Graduate Student Award, Texas A&M University, Department of Electrical and Computer Engineering. Apr 2023

NSF Student Travel Awards, ACM International Conference on Web Search and Data Mining. Dec 2021

Chevron Scholarship, Texas A&M University, Department of Electrical and Computer Engineering. Sep 2021

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

TALKS & SERVICES

AstraZeneca, AI&A Journal Club, online. Mar 2022

University of Texas at Austin, Prof. Mingyuan Zhou's group, online. Oct 2021

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 in Conferences of ISMB/ECCB'21,23, ACM-BCB'21,23, ICML'21-23, NeurIPS'21-22, ICLR'22, WWW'22, LoG'22; Workshops of NeurIPS'20 SSL, WWW'21 SSL, ICML'21 SSL, WWW'22 MLoG; Journals of TPAMI'21,23, INS'21, TNNLS'21-23, PeerJ'21, NEPL'21, JCST'22, SIPN'22, TKDE'22, TAI'22, TMLR'23, INFFUS'23.