

Yuning You


Ph.D. Student at Texas A&M University

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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 biomolecules.

EDUCATION

 **Texas A&M University**, College Station Aug 2019 - Present
Ph.D. Student in Electrical Engineering
Advisor: Prof. [Yang Shen](#) (Unofficial Co-Advisor: Prof. [Zhangyang Wang](#))

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


SELECTED PUBLICATIONS


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)


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)


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


PROFESSIONAL EXPERIENCES

 **Early Clinical Development/AI ML Intern** May 2023 - Present
Genentech Research and Early Development (gRED), **Genentech, Inc.**, South San Francisco
Advisor: Dr. [Changlin Wan](#)
Research Topic: TBD

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

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

 **Graduate Research Assistant** Sep 2020 - Present
Department of Electrical and Computer Engineering, **Texas A&M University**, College Station
Advisor: Prof. [Yang Shen](#) & Prof. [Zhangyang Wang](#)
Research Topic: Graph Machine Learning, Computational Drug Discovery

 **Voluntary Research Assistant** May 2019 - Aug 2019
Intelligence Science and Systems Lab (iSEE), School of Data and Computer Science, **Sun Yat-Sen University**, Guangzhou
Advisor: Prof. [Wei-Shi Zheng](#) & [Yuanxun Li](#)
Research Topic: Skeleton-Based Action Recognition, Graph Convolutional Networks

**Voluntary Research Assistant**

Sep 2018 - Apr 2019

State Key Laboratory for Strength and Vibration of Mechanical Structures, School of Aerospace Engineering, **Xi'an Jiaotong University**, Xi'an

Advisors: Dr. [Gangming Lyu](#) & Prof. [Guiyan Rong](#)

Research Topic: Symbol-Level Precoding in Wireless Transmission

**Voluntary Research Assistant**

Jul 2018 - Aug 2018

Optical+Biomedical Engineering Laboratory (OBEL), School of Electrical, Electronic & Computer Engineering, **University of Western Australia**, Perth

Advisors: Dr. [Karol Karnowski](#) & Prof. [Barry Cense](#)

Research Topic: Optical Coherence Tomography

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

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, 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'21-22, PeerJ'21, NEPL'21, JCST'22, SIPN'22, TKDE'22, TAI'22, TMLR'23, INFFUS'23.

PUBLICATIONS

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, *Bioinformatics*. (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)

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)

KDD@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)

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 [\[link\]](#): “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*.