

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/AIML Intern** (Expected) 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](#) & (Unofficial) Prof. [Zhangyang Wang](#)

Research topics: Graph machine learning, computational drug discovery

 **Voluntary Research Assistant** May 2019 - Aug 2019

Intelligence Science and System Lab (iSEE), School of Data and Computer Science, Sun Yat-Sen University, Guangzhou

Advisor: Prof. [Wei-Shi Zheng](#)

Research topics: 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 topics: Precoding strategies in MISO downlink 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

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.

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

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

Dec 2016

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)

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)

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*.