



# Yuning You

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## EDUCATION

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-  **Texas A&M University, College Station** Aug 2019 - Present  
Ph.D. Student in Electrical Engineering  
Supervisor: Prof. [Yang Shen](#) (Unofficial Co-Supervisor: Prof. [Zhangyang Wang](#))
-  **Xian Jiaotong University, Xi'an** Aug 2015 - Jun 2019  
Bachelor of Engineering in Information Engineering

## HIGHLIGHTED PUBLICATIONS

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- 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

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

## PROFESSIONAL EXPERIENCE

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-  **ML Small Molecules Intern** May 2022 - Present  
Department of Data Science and Machine Learning, Insitro, Inc., South San Francisco  
Supervisor: Dr. [Bowen Liu](#)  
Research topic: TBD
-  **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 self-supervised learning, drug discovery
-  **Applied Scientist Intern** Jun 2021 - Aug 2021  
Product Semantics Team, Amazon.com Services, Inc., Remote  
Supervisor: Dr. [Tong Zhao](#)  
Research topic: Fine-grained product network embedding
-  **Voluntary Research Assistant** May 2019 - Aug 2019  
Intelligence Science and Systems 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

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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, ACM BCB'21, ICML'21-22, NeurIPS'21, ICLR'22, WWW'22; workshops of NeurIPS'20 SSL, WWW'21 SSL, ICML'21 SSL, WWW'22 MLoG; journals of TPAMI'21, INS'21, TNNLS'21-22, PeerJ'21, NEPL'21, JCST'22, SIPN'22.

## HONORS & AWARDS

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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

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**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'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**<sup>\*</sup>, T. Chen<sup>\*</sup>, 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  $\ell_0$  Norm”, G. Yang, **Y. You**, Z. Lu, J. Yang, Y. Wang, *IEEE International Conference on Image Processing, Applications and Systems*.