



# Yuning You

1226 TAMU, College Station, TX, 77843  
(+1) 979-985-1921 ✦ yuning.you@tamu.edu ✦ [yyou1996.github.io](https://github.com/yyou1996)

## EDUCATION

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-  **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

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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 its application on **drug discovery**.

## PROFESSIONAL EXPERIENCE

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

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- 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, NeurIPS'21; journals of TPAMI'21, INS'21, TNNLS'21, PeerJ'21, NEPL'21; workshops of NeurIPS'20 SSL, WWW'21 SSL, ICML'21 SSL.

## HONORS & AWARDS

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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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**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<sup>2</sup>-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  $\ell_0$  Norm”, G. Yang, **Y. You**, Z. Lu, J. Yang, Y. Wang, *IEEE International Conference on Image Processing, Applications and Systems*.