







RESEARCH FOCUS

Machine learning on non-Euclidean data (e.g. **graphs** or hypergraphs), with fundamental understanding in theory and applications to real-world problems in **life science** (molecular/cellular systems).

EXPERIENCES

-  **California Institute of Technology**, Pasadena, California Jul 2024 – Present
Postdoctoral Scholar in Division of Biology and Biological Engineering
Advisor: Prof. [Matt Thomson](#)
-  **Texas A&M University**, College Station, Texas Aug 2019 – Aug 2024
Ph.D. in Electrical Engineering
Graduate Research Assistant in Department of Electrical and Computer Engineering (Part-Time)
Sep 2020 – May 2024
Advisors: Prof. [Yang Shen](#) & Prof. [Zhangyang \(Atlas\) Wang](#)
-  **Xi'an Jiaotong University**, Xi'an, Shaanxi Aug 2015 – Jun 2019
B.Eng. in Information Engineering
-  **Genentech, Inc.**, South San Francisco, California May 2023 – Aug 2023
Early Clinical Development/AIML Intern in Genentech Research and Early Development
-  **insitro, Inc.**, South San Francisco, California May 2022 – Aug 2022
ML Small Molecules Intern in Department of Data Science and Machine Learning
-  **Amazon.com Services, Inc.**, Remote Jun 2021 – Aug 2021
Applied Scientist Intern in Product Semantics Team

PUBLICATIONS (Check Full List on [\[Google Scholar\]](#))

- HUGO'24** [\[link\]](#): “Critical Assessment of Variant Prioritization Methods for Rare Disease Diagnosis within the Rare Genomes Project”, ..., **Y. You**, ..., *Human Genomics*, vol. 18(44), 2024. (Impact Factor 4.50, Outcome of [CAGI6 RGP](#))
- Preprint'24** [\[link\]](#): “Correlational Lagrangian Schrödinger Bridge: Learning Dynamics with Population-Level Regularization”, **Y. You**, R. Zhou, Y. Shen, *arXiv*, 2024.
- ICLR'24** [\[link\]](#): “Latent 3D Graph Diffusion”, **Y. You**, R. Zhou, J. Park, H. Xu, C. Tian, Z. Wang, Y. Shen, *International Conference on Learning Representations*, oprev., 2024. (Acceptance Rate 31.00%)
- ICLR'23** [\[link\]](#): “Graph Domain Adaptation via Theory-Grounded Spectral Regularization”, **Y. You**, T. Chen, Z. Wang, Y. Shen, *International Conference on Learning Representations*, oprev., 2023. (Acceptance Rate 31.80%)
- 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*, pp. 1909-1922, 2022. (*Equal Contribution, Acceptance Rate 25.60%)
- Bioinformatics'22** [\[link\]](#): “Cross-Modality and Self-Supervised Protein Embedding for Compound-Protein Affinity and Contact Prediction”, **Y. You**, Y. Shen, *Bioinformatics*, vol. 38(supp2), pp. 68-74, 2022. (Impact Factor 6.93, MoML'22, ECCB'22 with Acceptance Rate 17.40%, 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*, oprev., 2022. (Acceptance Rate 32.29%)

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*, pp. 1300-1309, 2022. (Acceptance Rate 20.22%)

ICML'21 Long Presentation [\[link\]](#): “Graph Contrastive Learning Automated”, **Y. You**, T. Chen, Y. Shen, Z. Wang, *International Conference on Machine Learning*, pp. 12121-12132, 2021. (Acceptance Rate 3.01%)

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*, vol. 70(4), pp. 3932-3937, 2021. (Impact Factor 5.97)

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*, pp. 5812-5823, 2020. (*Equal Contribution, Acceptance Rate 20.09%)

ICML'20 [\[link\]](#): “When Does Self-Supervision Helps Graph Convolutional Networks?”, **Y. You***, T. Chen*, Z. Wang, Y. Shen, *International Conference on Machine Learning*, pp. 10871-10880, 2020. (*Equal Contribution, Acceptance Rate 21.80%)

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*, pp. 2127-2135, 2020. (*Equal Contribution, Acceptance Rate 22.08%)

AWARDS

ECEN Quality Graduate Student Award, Texas A&M University, Department of Electrical and Computer Engineering (5 Awardees). 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

Texas A&M University, Prof. [James Cai](#)'s Lab, online. Oct 2023

Genentech, Inc., Spatial Omics Journal Club, online. Aug 2023

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

University of Texas at Austin, Prof. [Mingyuan Zhou](#)'s Group, online. Oct 2021

Technical University of Munich, [Learning on Graphs and Geometry Reading Group](#) (LoGaG), online. Aug 2021

ISMB/ECCB'21, [3DSIG COSI: Structural Bioinformatics and Computational Biophysics](#), online. [\[video\]](#) Jul 2021

ICML'21, [Session of Semisupervised and Unsupervised Learning](#), online. [\[video\]](#) Jul 2021

SERVICES

Session Chair of Semisupervised and Unsupervised Learning at ICML'21.

Reviewer in Conferences of ICML'21-24, NeurIPS'21-24, ICLR'22,24, WWW'22, LoG'22, ISMB/ECCB'21,23-24, ACM-BCB'21,23; Journals of TPAMI'21,23, TMLR'23, TNNLS'21-23, TKDE'22, TAI'22, INS'21, PeerJ'21, NEPL'21, JCST'22,24, SIPN'22, INFFUS'23, JBS'23.