

# Yuning You

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## RESEARCH FOCUS

Machine learning algorithms for structural data mining (e.g. [graphs](#), [point clouds](#), and [fields](#)), and their use in building biological simulators for living organisms at multiple scales (e.g. [virtual tissues](#)).

## EXPERIENCES

 <b>The Chinese University of Hong Kong, Shenzhen</b> , Guangdong	Sep 2025 – Present
Assistant Professor in School of Science and Engineering	
Affiliated with Future Network of Intelligence Institute	
 <b>California Institute of Technology</b> , Pasadena, California	Jul 2024 – Aug 2025
Postdoctoral Scholar in Division of Biology and Biological Engineering	
Advisor: Prof. <a href="#">Matt Thomson</a>	
 <b>Texas A&amp;M University</b> , College Station, Texas	Aug 2019 – Aug 2024
<i>Ph.D. in Electrical Engineering</i>	
Graduate Research Assistant in Department of Electrical and Computer Engineering (Part-Time)	
	Sep 2020 – May 2024
Advisors: Prof. <a href="#">Yang Shen</a> & Prof. <a href="#">Zhangyang (Atlas) Wang</a>	
 <b>Xi'an Jiaotong University</b> , Xi'an, Shaanxi	Aug 2015 – Jun 2019
<i>B.Eng. in Information Engineering</i>	
 <b>Genentech, Inc.</b> , South San Francisco, California	May 2023 – Aug 2023
Early Clinical Development/AIML Intern in Genentech Research and Early Development	
 <b>insitro, Inc.</b> , South San Francisco, California	May 2022 – Aug 2022
ML Small Molecules Intern in Department of Data Science and Machine Learning	

## PUBLICATIONS (Please check the full list on [\[Google Scholar\]](#))

**LoG'25** [\[link\]](#): “When Structure Doesn’t Help: LLMs Do Not Read Text-Attributed Graphs as Effectively as We Expected”, H. Xu, **Y. You**, T. Ma, *Learning on Graphs Conference*, 2025.

**MLGenX'25** [\[link\]](#): “Building Foundation Models to Characterize Cellular Interactions via Geometric Self-Supervised Learning on Spatial Genomics”, **Y. You**, Z. Wang, K. Fleisher, R. Liu, M. Thomson, *Machine Learning for Genomics Explorations Workshop, International Conference on Learning Representations*, 2025.

**AIDrugX@NeurIPS'24** [\[link\]](#): “Correlational Lagrangian Schrödinger Bridge: Learning Dynamics with Population-Level Regularization”, **Y. You**, R. Zhou, Y. Shen, *AI for New Drug Modalities Workshop, Conference on Neural Information Processing Systems*, 2024.

**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](#))

**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%)

**NeurIPS'23** [\[link\]](#): “Graph Mixture of Experts: Learning on Large-Scale Graphs with Explicit Diversity Modeling”, H. Wang, Z. Jiang, **Y. You**, Y. Han, G. Liu, J. Srinivasa, R. Kompella, Z. Wang, *Conference on Neural Information Processing Systems*, pp. 50825-50837, 2023. (Acceptance Rate 26.10%)

**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(Supplement\_2), 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** [\[link\]](#): “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*, pp. 2127-2135, 2020. (\*Equal Contribution, Acceptance Rate 22.08%)

## AWARDS

Presidential Young Fellow, The Chinese University of Hong Kong, Shenzhen	Nov 2025
Top 2% Scientists in 2024, Departments of METRICS, Stanford University/Elsevier <a href="#">[link]</a>	Sep 2025
Distinguished Graduate Student Award for Excellence in Research, Association of Former Students of Texas A&M University (9 awardees) <a href="#">[link]</a>	Mar 2025
ECEN Quality Graduate Student Award, Department of Electrical and Computer Engineering, Texas A&M University	Apr 2023
NSF Student Travel Awards, ACM International Conference on Web Search and Data Mining	Dec 2021
Chevron Scholarship, Department of Electrical and Computer Engineering, Texas A&M University	Sep 2021

## TALKS

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CIoTSC'25, Multimodal World Models for Embodied Robotics and Autonomous Driving Workshop, Suzhou	<a href="#">[link]</a>	Oct 2025
University of Southern California, Prof. <a href="#">Leonardo Morsut</a> 's Lab, Los Angeles		Aug 2025
Texas A&M University, Prof. <a href="#">James Cai</a> '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. <a href="#">Mingyuan Zhou</a> 's Group, online		Oct 2021
Technical University of Munich, <a href="#">Learning on Graphs and Geometry Reading Group</a> (LoGaG), online		Aug 2021
ISMB/ECCB'21, <a href="#">3DSIG COSI: Structural Bioinformatics and Computational Biophysics</a> , online	<a href="#">[video]</a>	Jul 2021
ICML'21, <a href="#">Session of Semisupervised and Unsupervised Learning</a> , online	<a href="#">[video]</a>	Jul 2021

## SERVICES

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Area Chair of <a href="#">New Perspectives in Advancing Graph Machine Learning Workshop</a> at NeurIPS'25
Co-Organizer of <a href="#">AI Bootcamp VIII on Graph Machine Learning</a> at Caltech
Session Chair of <a href="#">Semisupervised and Unsupervised Learning</a> at ICML'21
Reviewer in Conferences of ICML'21-24, NeurIPS'21-24, ICLR'22,24-25, WWW'22, LoG'22,24, ISMB/ECCB'21,23-24, ACM-BCB'21,23,24
Reviewer in Journals of TPAMI'21,23, TMLR'23, TNNLS'21-23, TKDE'22, TAI'22, INS'21, Peer.J'21, NEPL'21, JCST'22,24, SIPN'22, INFFUS'23, JBS'23, CSUR'24, Nature Communications Chemistry'25, Nature Computational Science'25