

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

-  **The Chinese University of Hong Kong, Shenzhen**, Guangdong Sep 2025 – Present
Assistant Professor in School of Science and Engineering
Affiliated with Future Network of Intelligence Institute
Affiliated with Shenzhen Key Laboratory of Big Data, and Artificial Intelligence
-  **California Institute of Technology**, Pasadena, California Jul 2024 – Aug 2025
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

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*, orev., 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 [\[link\]](#): “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

Presidential Young Fellow, The Chinese University of Hong Kong, Shenzhen	Nov 2025
Top 2% Scientists in 2024, Departments of METRICS, Stanford University/Elsevier [link]	Sep 2025
Distinguished Graduate Student Award for Excellence in Research, Association of Former Students of Texas A&M University (9 awardees) [link]	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

Electrical and Computer Engineering PhD Merit Fellowship, Department of Electrical and Computer Engineering, Texas A&M University
Feb 2019

TALKS

CIoTSC'25, Multimodal World Models for Embodied Robotics and Autonomous Driving Workshop, Suzhou [\[link\]](#) Oct 2025
University of Southern California, Prof. [Leonardo Morsut](#)'s Lab, Los Angeles Aug 2025
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

Area Chair of [New Perspectives in Advancing Graph Machine Learning Workshop](#) at NeurIPS'25
Co-Organizer of [AI Bootcamp VIII on Graph Machine Learning](#) at Caltech
Session Chair of [Semisupervised and Unsupervised Learning](#) 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, PeerJ'21, NEPL'21, JCST'22,24, SIPN'22, INFFUS'23, JBS'23, CSUR'24, Nature Communications Chemistry'25, Nature Computational Science'25, Journal of the American Statistical Association'26