

Xing Yi (Peter) Liu

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EDUCATION	Columbia University , New York, NY, United States M.S. in Computer Science, Machine Learning Track	Feb 2023
	University of California, Los Angeles , Los Angeles, CA, United States B.A.Sc. in Applied Mathematics (with Specialization in Computing) and Business Economics	Jun 2021
POSITIONS HELD	Tsinghua University , Beijing, China <i>Research Intern</i> , Institute for AI Industry Research	Mar 2023 – Aug 2023
	Columbia University , New York, NY, United States <i>Head Teaching Assistant</i> , COMS W3203, Discrete Mathematics, Prof. Tony Dear <i>Teaching Assistant</i> , COMS W4701, Artificial Intelligence, Prof. Tony Dear	Fall 2022 Spring, Summer 2022
	Bedrock Industries , Shanghai, China <i>Data Analyst Intern</i>	Dec 2019
	CITIC Securities , Beijing, China <i>Investment Banking Intern</i> , Health Services Group	Aug 2018 – Sep 2018
PUBLICATIONS	<ul style="list-style-type: none">[1] Yizhen Luo, Xing Yi Liu, Kai Yang, Kui Huang, Massimo Hong, Jiahuan Zhang, Yushuai Wu, and Zaiqing Nie. “Towards Unified AI Drug Discovery with Multiple Knowledge Modalities.” arXiv, October 2023.[2] Yizhen Luo, Kai Yang, Massimo Hong, Xing Yi Liu, and Zaiqing Nie. “MolFM: A Multimodal Molecular Foundation Model.” arXiv, June 2023.[3] Xing Yi Liu and Homayoon Beigi. “Efficient Ensemble for Multimodal Punctuation Restoration Using Time-Delay Neural Network.” 18th International Conference on Ubiquitous Information Management and Communication (IMCOM), January 2024.[4] Anqi Cui, Guangyu Feng, Borui Ye, Kun Xiong, Xing Yi Liu, and Ming Li. “UWNLP at the NTCIR-12 Short Text Conversation Task.” Proceedings of the 12th NTCIR Conference on Evaluation of Information Access Technologies (NTCIR-12), June 2016.	
OTHER RESEARCH	OpenBioMed Yizhen Luo, Kai Yang, Massimo Hong, Xing Yi Liu , Suyuan Zhao, Jiahuan Zhang, Yushuai Wu, and Zaiqing Nie <ul style="list-style-type: none">• Deep learning framework for biomedical research: https://github.com/PharMolix/OpenBioMed• Supports 3 modalities for molecules, 10 downstream tasks, 20+ models, and 20+ datasets	Aug 2023
	Peptide Quantification <i>Supervisor: Prof. Ming Li, University of Waterloo</i> <ul style="list-style-type: none">• Determining relative abundance of specific peptides in biological samples using machine learning• Aggregating varying peptide amounts detected in different replicates of the same dilution sample• Adopting PointIso for peptide feature detection from liquid chromatography mass spectrometry maps	Jul 2022 – Mar 2023
AWARDS	Andrew P. Kosoresow Memorial Award for Excellence in Teaching and Service Awarded at Columbia University for teaching assistantship, nominated by Prof. Tony Dear	Apr 2023
SERVICE	President, UCLA Undergraduate Mathematics Students Association	Mar 2020 – Mar 2021