

# Xing Yi (Peter) Liu

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EDUCATION	<b>Columbia University</b> , New York, NY, United States M.S. in Computer Science, Machine Learning Track	Feb 2023
	<b>University of California, Los Angeles</b> , Los Angeles, CA, United States B.A.Sc. in Applied Mathematics (with Specialization in Computing) and Business Economics	Jun 2021
POSITIONS HELD	<b>Tsinghua University</b> , Beijing, China <i>Research Intern</i> , Institute for AI Industry Research	Mar 2023 – Aug 2023
	<b>Columbia University</b> , 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
	<b>Bedrock Industries</b> , Shanghai, China <i>Data Analyst Intern</i>	Dec 2019
	<b>CITIC Securities</b> , Beijing, China <i>Investment Banking Intern</i> , Health Services Group	Aug 2018 – Sep 2018
PUBLICATIONS	[1] Yizhen Luo, <b>Xing Yi Liu</b> , Kai Yang, Kui Huang, Massimo Hong, Jiahuan Zhang, Yushuai Wu, and Zaiqing Nie. “Towards Unified AI Drug Discovery with Multimodal Knowledge.” <i>Health Data Science</i> , February 2024. [2] <b>Xing Yi Liu</b> 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. [3] Yizhen Luo, Kai Yang, Massimo Hong, <b>Xing Yi Liu</b> , and Zaiqing Nie. “MolFM: A Multimodal Molecular Foundation Model.” arXiv, June 2023. [4] Anqi Cui, Guangyu Feng, Borui Ye, Kun Xiong, <b>Xing Yi Liu</b> , 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	<b>OpenBioMed</b> Yizhen Luo, Kai Yang, Massimo Hong, <b>Xing Yi Liu</b> , Suyuan Zhao, Jiahuan Zhang, Yushuai Wu, and Zaiqing Nie <ul style="list-style-type: none"><li>Deep learning framework for biomedical research: <a href="https://github.com/PharMolix/OpenBioMed">https://github.com/PharMolix/OpenBioMed</a></li><li>Supports 3 modalities for molecules, 10 downstream tasks, 20+ models, and 20+ datasets</li></ul> <b>Peptide Quantification</b> <i>Supervisor: Prof. Ming Li, University of Waterloo</i> <ul style="list-style-type: none"><li>Determining relative abundance of specific peptides in biological samples using machine learning</li><li>Aggregating varying peptide amounts detected in different replicates of the same dilution sample</li><li>Adopting PointIso for peptide feature detection from liquid chromatography mass spectrometry maps</li></ul>	Aug 2023 Jul 2022 – Mar 2023
AWARDS	<b>Andrew P. Kosoresow Memorial Award for Excellence in Teaching and Service</b> 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