

Ming Yang

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OBJECTIVE

Eager to secure a postdoctoral positions at the intersection of AI and biology, with a particular focus on protein design and drug discovery. I am open to discussing research fit and potential collaborations.

EDUCATION

2023.9 - now	Dalian University of Technology	Ph.D.	AI4Protein
2020.9 - 2023.6	Dalian Maritime University	M.A.	NLP
2016.9 - 2020.6	Liaoning Technical University	B.Sc.	Software Engineering

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [C.1] **Ming Yang**, Xin Zheng, Yi Li, YIZHEN ZHENG, Huan Yee Koh, Yanqing Guo, Xiaofeng Cao, Shirui Pan. "**Multi-Objective Protein Design via Memory-Aware Test-Time Scaling in Diffusion Models**". *Proceedings of the 43th International Conference on Machine Learning (ICML 2026)*. [CCF A]
- [C.2] **Ming Yang**, Xin Zheng, Yi Li, YIZHEN ZHENG, Huan Yee Koh, Yanqing Guo, Jian Gao, Feng Xia, Shirui Pan. "**Natural Language-powered Functional Protein Sequence and Structure Co-Design with Multi-modal Knowledge Fusion**". *Proceedings of the 32th ACM SIGKDD conference on knowledge discovery and data mining. (KDD 2026)*, in submission.
- [C.3] Langzhang Liang, **Ming Yang**, Feng Yi, Junfan Li, Shirui Pan, Xu Yinghui, Tianlei Ying, YIZHEN ZHENG, Zenglin Xu. "**LineageFlow: Flow Matching for High-Fidelity Family-Aware Protein Sequence Generation**". *Proceedings of the 43th International Conference on Machine Learning (ICML 2026)*.
- [C.4] Ruipeng Zhou, **Ming Yang**, Yi Li, Xin Zheng, Alan Wee-Chung Liew, Shirui Pan, Yanqing Guo. "**Efficient and Diverse De Novo Protein Backbone Design with SE (3)-Equivariant Diffusion**". *Proceedings of the 29th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2025)*..
- [S.5] **Ming Yang**, Xin Zheng, Yi Li, YIZHEN ZHENG, Huan Yee Koh, Yanqing Guo, Shirui Pan. "**Natural Language Has the Potential to Reinvent De Novo Protein Design**". *arxiv*.

AWARDS

- 2023-2025 Academic Scholarship of Dalian University of Technology
- 2020-2023 Academic Scholarship of Dalian Maritime University
- 2025.9-2026.4 Awarded NVIDIA Academic Grant Program for the project "Natural Language-Driven Protein Sequence and Structure Co-Design".

SKILLS

- **Development:** Python, Pytorch, Linux, Git, Shell, etc.
- **Research Area:** Protein Design, Macromolecular Peptidation, Drug Discovery.
- **Data Science & Machine Learning:** AlphaFold2, AlphaFold3, Diffusion Models, Reinforcement Learning, Test-Time, Inference-Time Alignment, Large Language Models (LLMs), Transformers, etc.
- **Academic & Visualization Tools:** LaTeX, ChimeraX, Origin, Visio, etc.

STRENGTHS

- Diligent Researcher, Persistent Problem Solver
- Creative Thinker, Fast Learner
- Strong Communicator, Team Collaborator