Wenye Xiong

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RESEARCH INTEREST

Multimodal Machine Learning, Computer Vision, AI for Healthcare & Life Science.
Generative AI, Bioinformatics.

EDUCATION

ShanghaiTech University **Shanghai, CHN**
B.E. in Computer Science and Technology *September 2023 - June 2027 (expected)*

- GPA: 3.73/4.0
- Rank(CS major): 22/176
- Rank(School of Information Science and Technology): 32/266

AWARDS & HONORS

- **MERIT STUDENT**(top 5%), ShanghaiTech University, 2023-2024
- **2023 OUTSTANDING MENTOR ASSISTANT**, ShanghaiTech University, 2023
- **GOLD MEDAL**, International Genetically Engineered Machine Competition (iGEM), 2024
- **AI HONOR CLASS**, ShanghaiTech University, 2024-2027(expected)

EXPERIENCE

PACIFY project for iGEM 2024 [wiki] *Dec. 2023 - Oct. 2024*
Team Member

- Performed homology modeling to obtain the structure of $\beta 10 - E5 - \beta 11 - K5$, and used AlphaFold 2 to predict the structure of $\beta 1 - \beta 9$
- Operated protein preparation and molecular dynamics simulation
- Developed devices based on PID algorithm to address the issue of itchiness without doing harm to the skin

MakeSense, ShanghaiTech First SensUs Team *Aug. 2024 - present*
Co-Founder & Leader of Data Analysis Team

- Developing a wearable device based on biosensors to continuously monitor acute kidney injury (AKI) biomarkers

Virtual Reality and Visual Computing Center (VRVC), ShanghaiTech *June 2024 - Oct. 2024*
Undergraduate Research Assistant, Supervisor: Dr. Minzhang Li

- Exploring the application of Deep Learning and latest Diffusion Model in Protein Structure Prediction
- Contributed to the development of ShanghaiTech Fold, a diffusion-based model for all-atom biomolecular assembly

TECHNICAL STRENGTHS

Programming Languages	Matlab, Python, C&C++
Framework & Toolchain	PyTorch, Git, Docker, Linux, Rosetta
Misc	LaTeX, Markdown, CET-6: 646

PUBLICATIONS

No publication yet.

COURSE PROJECTS

- **NTU Machine Learning 2022 Spring by Prof. Hung-yi Lee** [code]
- **De Novo Protein Design of Odorant Binding Proteins for VOCs Recognition** [code]

SELECTED COURSES

- **Postgraduate Level:**
  Game Theory, Information retrieval and utilization
- **Undergraduate Level:**
  Linear Algebra, Calculus, Probability and Statistics for Information Science, Data Structure and Algorithm, Introduction to Information Science and Technology, Introduction to Economics, Introduction to Synthetic Biology: Principles and Applications, Introduction to Programming, Discrete Mathematics, United States History, Protein Design.