

Xiangyu Wen

Ph.D. Student | Department of Electrical and Computer Engineering | NC State University

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My research focuses on **reliable** machine learning mechanisms, especially **agentic RL** and **multi-agent systems**, for science and real-world applications.

EDUCATION

North Carolina State University

Ph. D. in Computer Engineering

– Advisor: Prof. [Kaixiong Zhou](#), SEEK Lab

Raleigh, United States

Aug. 2026 – Present

Sun Yat-sen University

B.Eng. in Telecommunication Engineering

– Advisor: Prof. [Xiang Chen](#), I3C Lab

Guangzhou, China

Sep. 2022 – Jun. 2026

PUBLICATIONS

** indicates equal contributions*

Benchmarking Virtual Cell Models for In-the-Wild Perturbation Response

Xinjie Mao*, Songming Zhang*, Qianhong Wen*, **Xiangyu Wen***, Kedu Jin, Hao Wu, Shuizhou Chen, Yuqiang Li, Lei Bai, Qi Liu, Ning Ding, Siqu Sun and Zhangyang Gao.

Nature Machine Intelligence, 2026, under review.

GALS-Fold: Geometry-Aware Long-Short RNA Inverse Folding with Linear Scaling

Xiangyu Wen, Yujing Bian, Hengrui Gu, Kaixiong Zhou.

ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2026.

Removal of Ocular and Myogenic Artifacts from EEG Signal Using Deep-Learning Method

Chen Qian*, **Xiangyu Wen***, Kangcheng Zou, Yichen Mao.

Applied and Computational Engineering (ACE), 2025.

RESEARCH EXPERIENCE

Research Assistant

Advisor: Prof. [Kaixiong Zhou](#)

Jun. 2025 – Present

North Carolina State University

– LLM Agent and Foundation Models for Science (Synthetic and Computational Biology).

Undergraduate Researcher

Tomorrow Space Network Interdisciplinary Innovation Group | Supervised by Dr. [Ming Zhao](#)

Feb. 2025 – May 2025

Tsinghua University

– AI-enhanced and Distributed Core Network Systems.

Undergraduate Researcher

Supervised by Prof. [Neal Bangerter](#)

Dec. 2024 – Apr. 2025

Imperial College London

– Sequence-aware Deep Neural Architecture for EEG Artifact Suppression.

INDUSTRY EXPERIENCE

Research Internship

AI4Science Center | Supervised by Dr. *Zhangyang Gao* and Prof. *Siqi Sun*

– Virtual Cell Models and Perturbation Scenario Benchmarks. Foundation models for single-cell biology.

Nov. 2025 – Apr. 2026

Shanghai AI Laboratory

AWARDS & FELLOWSHIPS

NC State University Graduate Merit Award	2026
Second Prize in South China Region, National Undergraduate Electronic Design Contest	2024
Sun Yat-sen University Outstanding Student Scholarship	2023

ACADEMIC SERVICE

President of IST(Information Science & Technology Developing Center for SYSU Students)	2023 – 2025
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TECHNICAL SKILLS

Languages: Python, C/C++, MATLAB, Verilog, LaTeX

AI/ML Frameworks: PyTorch, TensorFlow, Generative Models, Language Models

Developer Tools: Linux, Git, Docker, Huggingface

Domain Knowledge: RNA Secondary Structure, EEG in Neuroscience, Knowledge Graph