

Xinyu Wang

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EDUCATION

University of Electronic Science and Technology of China

Bachelor of Science in Software Engineering

Overall GPA: 3.50/4.00

2021 & 2022 & 2023 Outstanding Student Scholarship of UESTC

Chengdu, Sichuan, China

Sep 2020 – Now

EXPERIENCE

Purdue University

Visiting undergraduate in Kihara Lab

June 2023 - August 2023

Remote – West Lafayette, USA

- Participated in the calculation of protein interface contacts based on sequence co-evolution and conservation involving residues
- Applied Contrastive learning on feature-learning of 6 targets in ZIPPI scores (an evaluation of protein-protein interaction models)

Fudan University

Research Intern

September 2023 - Present

Remote – Shanghai, China

- Conducted a comprehensive comparison of different computational predictors for AMPs (antimicrobial peptides) and their activities
- Assessed the practical effectiveness of these models in addressing real-world challenges, such as bacterial infections

Zhejiang Lab

Research Assistant

March 2023 - August 2023

Hangzhou, Zhejiang, China

- Conducted the integration of scATAC-seq data and sc-RNA seq data
- Participated in the fine-tuning of Geneformer-a pretrained model with 30 million single-cell transcriptomes
- Assisted in the modality prediction (ATAC, mRNA, protein data) and the regulatory inference

PROJECTS

Massachusetts Institute of Technology

2023 Winter CV Camp

[Source Code](#)

- Built a CNN with Adam optimizers for image classification on the MNIST dataset, ended up with high accuracy
- Designed a fully transformer-based model to perform video understanding and classification
- Participated in the comparison work of CNN architectures (from LeNet to GoogLeNet)

NanJing University

2021 Summer NLP Camp Best Project Award

[Source Code](#)

- Carried out CNN, LSTM, Lan, Bert, tombert, Transformers and other deep learning models
- Applied those models to my own datasets based on TensorFlow2.0 and contrasted the behavior to that in the original papers

LEADERSHIP

- President of Propaganda Department in [AI TIME](#)
- President of Tennis Club, Shahe Campus, University of Electronic Science and Technology of China

TECHNICAL SKILLS

Languages : C, Python, Pytorch, TensorFlow, R, Java, Assembly Language (8086)

Databases : MySQL, PostgreSQL, Microsoft SQL

Tools : Git, Docker, Powerdesigner, Latex