

Yufan Zhou

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Education

Xi'an Jiaotong-Liverpool University (University of Liverpool)

Sep 2022 - Apr 2024

MSc in Human-Computer Interaction

Suzhou, CN

- **GPA:** 3.76 / 4.0 (Pass with Merit)
- **Key Courses :** Human-Robot Interaction, Information Visualization, Interactive Systems

Nanjing Xiaozhuang University

Sep 2019 - Jul 2021

B.Eng. in Software Engineering

Nanjing, CN

- **GPA:** 3.62 / 5.0
- **Key Courses :** Operating System, Data Structures and Algorithms, Computer Networks, Database

Changzhou Vocational Institute of Engineering

Sep 2016 - Jul 2019

College Diploma

ChangZhou, CN

- **GPA:** 3.95 / 5.0 (Ranking 5/354)
- **Key Courses :** Cloud performance optimization, Data storage technology, Virtualization technology
- **Honors :** National Scholarship, Merit Student of Jiangsu Province, Excellent Graduate

Publications

- Qianru Chen*, **Yufan Zhou***, Xintong Hou*, Kunze Jiang, Jincheng Li, Chao Wu. MRF: Multi-Attention Fusion Artistic Radiance Fields and beyond (submitted to a CCF-C journal, Under Review)
- Kunze Jiang*, **Yufan Zhou***, Chao Wu. ERF: Multi-Attention Fusion Artistic Radiance Fields (FedCSIS 2024 accepted)
- **Yufan Zhou**, Dingding Chen, Jiayin Li, Chengtao Ji, Chao Wu, Lingyun Yu. Visual Analysis of Heterogeneous Text Data based on Federated Learning. (Under Review)
- Software Copyright of "An accurate Commodity Recommendation System Under Big Data"; Registration Number: 2020SR0802224 (First Authorizer)
- Yiling Zhang, Wei Xu, **Yufan Zhou**, Yalin Wang, Hao Zheng. Accurate Commodity Recommendation System Based On Face Recognition [J]. Intelligent Computer and Application. (Actual completion person).

Experience

Zhejiang University (Computational Social Science Center)

Mar 2023 - Now

Research Assistant

HangZhou, CN

- **Human-Computer Interaction Project (Collaboration with HKBU)**

Apr 2024 - Now

Team Leader

- ✧ The aim of this study is to mitigate the echo chamber in large language models. Without fine-tuning the model, we address this issue by configuring the LLM as multiple agents that interact and discuss with each other. This approach seeks to enhance the diversity of recommendation systems based on LLMs.
- **Vanguard Project - Metaverse** Jul 2023 - Now
Main participant / Algorithm developer
 - ✧ Funded by the Zhejiang Provincial Department of Science and Technology, Project: Distributed Artificial Intelligence Platform for Metaverse Applications. (RMB 8,000,000)

- ✧ I developed an AR program for Rokid glasses to help stroke patients with walking and balance issues. Users can perform walking and hand movement exercises under remote doctor guidance.
- ✧ Using 3D diffusion models to edit scenes reconstructed by NeRF, achieving personalized scene. And I supervised undergraduate student to completed the paper "ERF: Multi-Attention Fusion Artistic Radiance Fields"
- **Vanguard Project (Metric7, 8) - Intelligent Computing System Software Platform** Mar 2023 - Jul 2023
Algorithm developer
 - ✧ In this project, I successfully ported deep learning algorithms based on Nvidia chips and Pytorch to the Huawei Ascend 910B chip and Mindspore framework.
 - ✧ The first task was to implement a knowledge distillation model that maintains 90% accuracy while keeping the pruning rate, extraction rate, and quantization rate above 50%. The second task was to optimize a federated learning algorithm, enhancing its large-scale training efficiency by 50%.
 - ✧ This project participated in the Ministry of Education's Science and Technology Progress Award evaluation.

Texas A&M University – Corpus Christi AIII Lab

Oct 2022 - Feb 2023

Remote Research Intern

Suzhou, CN

- ✧ Primarily focused on research related to Artificial Intelligence in Drug Discovery (AIDD). Utilized transformer models to replace the RNN models for molecular retrosynthesis prediction.

The Nanjing Key Laboratory of Trusted Cloud Computing and Big Data Sep 2019 - Jul 2021

Research Assistant

Nanjing, CN

● **Key Project of Jiangsu University Students Innovation Plan**

Sep 2019 - Apr 2020

Team leader

- ✧ Funded by the Jiangsu Provincial Department of Education, RMB 20,000
- ✧ Using C# to improve and beautify the functions and interfaces; using K-means and collaborative filtering to design and implement the recommendation algorithm independently;
- ✧ Taking the team's lead as the responsible person to participate in the Sixth Internet Plus College Students Innovation and Entrepreneurship Competition of Jiangsu Province, completed most of the work from the first draft of the business plan to the last roadshow and won the best record in the provincial competition.
- ✧ The project received a software copyright and published a paper titled "Accurate Commodity Recommendation System Based on Face Recognition."
- **CERNET Innovation Project** Dec 2019 - Dec 2020
Co-Applicant
 - ✧ Funded by CERNET (China Education and Research Network), Project: Campus IPv4/IPv6 Dual-Stack Address Translation (Number: NGII20190119), RMB 70,000
 - ✧ Learned IPv4/IPv6 dual-stack technology, became familiar with and configured the real campus network, and participated in testing and paper writing. Also handled communications and liaisons with CERNET network company, and managed financial reimbursement matters.
 - ✧ The results of this project have been officially implemented at Nanjing Xiaozhuang University.

Honours and Awards

- 2021 **Excellent Award** of the 11th Blue Bridge Cup JAVA Software Development University Group B National Competition
- 2021 **The First Prize** of the 11th Blue Bridge Cup JAVA Software Development University Group B Provincial Competition
- 2020 **The Third Prize** of the 6th "Internet +" College Student Innovation and Entrepreneurship Competition in Jiangsu Province

- 2020 **The First Prize** of the 6th "Internet +" College Student Innovation and Entrepreneurship Competition in Nanjing Xiaozhuang University
- 2018 **The Second Prize** of the 9th Blue Bridge Cup JAVA Software Development University Group C Provincial Competition
- 2016-2019 **The First Class Scholarship and Merit Student** of Changzhou Vocational Institute of Engineering for three consecutive years

Extracurricular Activities and Social Practices

Xi'an Jiaotong Liverpool University Teaching Assistant Mar 2023 - Jun 2023

- Responsible for the experimental part of the CPT102 data structure course, helping students solve questions in the course

The Hong Kong Polytechnic University Visiting Student Jul 2017 - Jul 2017

- Cultivated and exercised creative thinking, teamwork, and independent thinking skills

FTLife Insurance Company Limited Intern Jul 2017 - Jul 2017

- Learned financial knowledge and enhanced my leadership skills

Abilities and Skills

- **Programming language skills:** Python, C++, Java, Javascript, C#, Matlab, Pytorch
- **Interactive and Immersive Tech:** AR, Unity3D , ECharts
- **Miscellaneous:** SPSS, Linux, Docker, Blender
- **Language skills:** LanguageCert Expert C1 high pass