JINGXUAN WANG

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Personal Information

Name: Jingxuan Wang
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Affiliation: Beijing University of Posts and Telecommunications
Major: Software Engineering
Expected Graduation: June 2027

Research Interests

AI for Drug Discovery
Precision Medicine
Multimodal Learning in Healthcare
Single-cell & Omics Data Analysis

Education

Beijing University of Posts and Telecommunications (BUPT)   **Beijing,China**
B.Eng. in Software Engineering   *Sep 2023 - Jun 2027*
GPA: 3.47 / 4.0 (86.82 / 100), **Rank**: 39 / 151 (**Top 26%**)
CGPA:3.53/4.0
Core Courses:
Data Structures & Algorithms, Machine Learning, Deep Learning, Artificial Intelligence, Data Mining, Mathematical Statistics, Optimization Methods, Database Systems, Software Engineering

Publications

1.**Wang, J.**, Yang, J., Khan, M. A., Yee, P. L., Baili, J., Hu, D.
DGAN-MPCC: A Novel Dual-GAN Enhanced Multi-Positive Contrastive Clustering Method for Omics Data
IEEE Journal of Biomedical and Health Informatics, 2025.(Accepted JCR Q1)
DOI: 10.1109/JBHI.2025.3631973
2.**Zhu, S., Wang, J., Hu, X., Tao, J.**
Enhancing Study-Abroad English Learning with AI-Powered Scenario Simulation.
In **Proceedings of the International Conference on Future Language Learning (ICFULL 2025) & Global and Local Conference on Computer-Assisted Language Learning (GLoCALL 2025), 2025**. (Oral/Poster Presentation)

Patents

1.Tao, X.**, Wang, J.**
ListenSpeakStar : A Multi-Agent Collaborative Intelligent Training System for English Listening and Speaking .
Software Copyright Registration, China Copyright Protection Center, 2025.
Registration No.: **2025SR2109214**.

Research Experience

1.**AI-driven Omics Data Clustering & Representation Learning**
                                                                                                              Dec 2024 - Nov 2025
- Proposed a dual-GAN framework to enhance both input and latent representations for noisy single-cell data
- Designed a multi-positive contrastive clustering strategy to model continuous cell-state transitions
- Evaluated on multiple real-world single-cell datasets, achieving state-of-the-art clustering performance

2.**AI-Powered Scenario Simulation for Language Learning**
                                                                                                              Apr 2025 - Jul 2025
- **Conducted an undergraduate innovation research project focused on AI-driven scenario simulation for study-abroad English learning.**
- **Resulted in a peer-reviewed** conference paper and presentation:Zhu, S., **Wang, J.**, Hu, X., Tao, J.Enhancing Study-Abroad English Learning with AI-Powered Scenario Simulation.
- **In Proceedings of the International Conference on Future Language Learning (ICFULL 2025) & Global and Local Conference on Computer-Assisted Language Learning (GLoCALL 2025), 2025**.

3.**ListenSpeakStar: Multi-Agent Collaborative English Listening and Speaking Training System**
                                                                                                              May 2025 - Jan 2026

- Developed an independent research project on multi-agent collaborative intelligent language training systems.
- **Achieved software copyright registration**:ListenSpeakStar Multi-Agent Collaborative English Listening and Speaking Intelligent Training Software V1.0 . Registration No.: 2025SR2109214.

Competitions & Awards

1. **China Students Service Outsourcing Innovation and Entrepreneurship Competition (15th Edition)**
   Enterprise-Oriented Track, **National Third Prize**, 2024.
   Certificate No.: F2403243A3293.
2. **Global Campus AI Algorithm Elite Competition (6th Edition),**
   Beijing Regional Final Algorithm Innovation Track (AI + Medicine),   **Second Prize**, 2024.
   Project: Medical Ollama.
3. **China Students Service Outsourcing Innovation and Entrepreneurship Competition (16th Edition),**
   Beijing Regional Contest
   Enterprise-Oriented Track, **Provincial Third Prize**, 2025.
   Certificate No.: NT2402245A3068.
4. **National Undergraduate Statistical Modeling Competition (11th Edition)**, Beijing Regional Selection
   Undergraduate Group, **First Prize**, 2025.
   Project: Spatiotemporal Efficiency Evaluation and Multi-objective Simulation for Medical Resource Allocation.
   Certificate No.: 20251101A0080.
5. **China Undergraduate Computer Design Competition (18th Edition)**, Beijing Municipal Contest
   Second Prize, 2025.Project: Zhang Heng Mathematics AI-Agent: Intelligent Mathematics Education System.
   Project ID: 2025003391.
6. **National Artificial Intelligence Application Innovation Competition**, University-Level Contest
   Excellence Award, 2025.
   Team: Fat Orange Thinking.
7. **SFLEP · VocabGo Cup National English Vocabulary Contest (4th Edition)**
   Non-English Majors Group, **First Prize** (University Level), 2024.
8. **Scholarships**: University Third-class Scholarship

International Programs & Academic Exchange

1. SOC Summer Workshop 2025 *May – July 2025*
   School of Computing, National University of Singapore (NUS)
   Course: Big Data Analytics and Visualization
   Grade: A+
   Programme intensity equivalent to a regular semester course at NUS School of Computing
2. OxCam Programme 2024 *August 2024*
   AI + Biotechnology Engineering & Healthcare Technology Track
   Delivered by faculty and researchers from the University of Oxford and the University of Cambridge
   Overall Evaluation Score: 81.5 / 100
   Focus on AI-driven healthcare technology and biomedical applications

Language Proficiency

1. English: IELTS 7.0
2. Chinese: Native

Skills

1. **Programming & Development**
   Python, PyTorch,SQL, Git, Linux
2. **Machine Learning & AI**
   Deep Learning, Contrastive Learning, Generative Models (GANs), Representation Learning
   Retrieval-Augmented Generation (RAG), Large Language Models (LLMs), Multi-Agent Systems
3. **Biomedical & Data Science**
   Single-cell & Omics Data Analysis
   Multimodal Learning in Healthcare
   Biomedical Text Mining and Knowledge Integration
   Mathematics & Modeling
   Mathematical Statistics, Optimization Methods, Statistical Modeling
   Tools & Research Utilities
   LaTeX, Jupyter Notebook, Data Visualization