

# JIANGYIN ZHOU

Beijing University of Posts and Telecommunications  
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## EDUCATION

**M.Sc.** in Intelligent Science and Technology (Research) Beijing, Chinese mainland, Sept. 2022 – June 2025

Peking University of Posts and Telecommunications

Supervisor: Prof. Yong Liu

Field of Study: AI for medical image analysis

Thesis Topic: Research and implementation of prognostic diagnosis system for heart transplant patients based on machine learning

Major Courses: Information Search and Artificial Intelligence, Matrix Analysis, Advanced Machine Learning, Probability and Stochastic Processes

GPA: 3.72 / 4.0

**B.S.** in Automation Beijing, Chinese mainland, Sept. 2018 – June 2022

Peking University of Posts and Telecommunications

Thesis Topic: Visual simulation and application of multi-UAV cooperative control algorithm

Major Courses: Classic Control Theory, Analog Fundamentals, Digital Electronic Circuits

GPA: 3.44 / 4.0

## PUBLICATIONS

\* Corresponding author

- EMBC 2024** Exploring the Feasibility of Investigating Myocarditis Progression Using Histopathological Features from Whole-Slide Images of H&E Tissue  
**Jiangyin Zhou**, Congrui Wang, Xiumeng Hua, Jiangping Song, Yong Liu and Rui Hou\*;  
Accepted manuscript.

## RESEARCH EXPERIENCE

- Cell Nuclei Segmentation on H&E images *Beijing, China*  
Based on Segment Anything, LoRA fine-tuning is used, a U-Net-like structure is used as a prompt module, and the mask decoder is regarded as a segmentation refinement module. This approach improved the model's F1 score by 1.42 compared to other segmentation- Anything models on the TNBC dataset.
- Modern smart healthcare system serving border guards *Beijing, China*  
Led the development of App, overseeing all stages from inception to deployment. Orchestrated the implementation of the natural language dialogue robot. Coordinated team efforts and reported progress.

## AWARDS AND HONORS

- First Prize University scholarship, Peking University of Posts and Telecommunications 2023
- First Prize at School Level in The 9th "Internet+" Innovation and Entrepreneurship Competition 2023
- Second Prize university scholarship, Peking University of Posts and Telecommunications 2022

## SKILLS AND EXPERTISE

### Skills

- Programming: Python (PyTorch, NumPy, Pandas, Scikit-learn, etc.), C++;
- Machine Learning: CNNs, ViTs, GPT, LoRA, DDPM;
- Operating Systems: Linux, SLURM;

### Teaching

- Basics of brain and cognitive science (TA) Spring 2024

## ONGOING LEARNING

- Generative Visual Question Answering, BLIP-2, GLaMM, LISA;