

YIMING JIA

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EDUCATION

Beijing University of Posts and Telecommunications

Beijing, China

Bachelor, School of Computer Science, GPA: 92.12/100 (Ranking: 1/172)

Expected in Jun. 2023

EXPERIENCE

Research Intern; Advisor: Prof. Jun Ding

From May. 2022

McGill University, Meakins-Christie Laboratories

Montreal, Canada

- Analyzed time-series single-cell data using quantitative methods including PCA, FFT, clustering, etc.
- Developing GNN+VAE model to further explore genes' embedding and relationships.

Research Intern; Advisor: Prof. Chuan Shi

March. 2022 - June. 2022

Beijing University of Posts and Telecommunications, GAMMA Lab

Beijing, China

- Researched [paper](#) *Representation Learning on Graphs with Jumping Knowledge Networks* accepted by ICML 2018, and [paper](#) *Predict then Propagate Graph Neural Networks meet Personalized PageRank* accepted by ICLR 2019.
- Reproduced the experimental results of JK-net and APPNP.
- Designed and implemented JK-net in [GammaGL](#) based on [TensorLayerX](#).

MIT Summer Online Program, Machine Learning Plus in Computer Vision July. 2021 - August. 2021

- Studied elementary knowledge of machine learning and latest CV model including GAN, LSTM, etc.
- Designed and implemented FCN and finish semantic segmentation of street view.

School Project

Software Process Improvement(Python)

March. 2022 - June. 2022

- Developed a website based on Django in TDD style.
- Wrote scripts to auto deploy website on the server.
- Continuously updated test scripts to make sure everything worked well.

Big data principle and technology(Java)

March. 2022 - June. 2022

- Designed Apriori algorithm in MapReduce.
- Implemented Apriori algorithm based on Hadoop.

Numerical Analysis and Computation(C++)

September. 2021 - January. 2022

- Designed and implemented FFT individually.
- Tested FFT in long integer multiplication.

Computer Networks(C++, Java)

December. 2021 - January. 2022

- Implemented distance vector routing algorithm based on socket.
- Realized reliable communication based on UDP.

Design of Communication Protocol Software(Java)

September. 2021 - January. 2022

- Implemented P2P communication system based on Java NIO.

PERFESSIONAL SKILLS

Languages: Python, Java, C/C++ , Bash, SQL, R**Frameworks:** PyTorch, Hadoop, Django**Developer Tools:** Git, Docker, PyCharm, IntelliJ IDEA, CLion, Visual Studio, Rstudio**Libraries:** pandas, NumPy, Scipy, Matplotlib**English:** TOEFL: 105/120, GRE: 324/340