

Hanfu SHI

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EDUCATION

Columbia University Mailman School of Public Health New York NY

Master of Science (MS), **Biostatistics (Data Science)**

May. 2023

Xi'an Jiaotong-Liverpool University Suzhou, China

Bachelor of Science, **Bioinformatics**

July. 2020

- **Selected courses:** Programming in Java | Algorithmic Foundations and Problem Solving | Database Development and Design | Artificial Intelligence | Introduction to Database | Machine Learning
- **Selected awards:** National Grants in 2018 | Excellent scholarship award in 2018 | National Encouragement Scholarship in 2018 and 2019 | IGEM-Gold Award in 2019

WORK EXPERIENCE

Research Assistant - Suzhou Institute of System Medicine

Aug. 2019-Oct. 2019

- Conducted experiment about the role of PLK1 gene in cancer development
- Leveraged R to download and analyze more than 20,000 different gene expressions from to compare it to lab experiment results
- Used Linux to conduct RNA-raw data analysis to transform raw data to data analyzed
- Wrote scripts in R for RNA-sequencing downstream analysis, which greatly improved research efficiency.
- Taught 4 Ph.D. researchers the R skills needed to use the software

PROJECTS

Xi'an Jiaotong-Liverpool University

International Genetically Engineered Machine (iGEM)

- Conducted experiments to study the potential treatment of Alzheimer using exosome.
- Developed a team website with HTML/CSS to show experiment results.
- Collaborated with a 6-member team to build models to test the rationality of the whole project
- Trained 7 new members of webpage setup, R language, MATLAB, and modeling as an advisor in 2019

Pricing Panel (Independent Project)

- Created a demo website that included three functions such as sign up, free trial for small team and free trial for enterprise
- Developed a webpage which displays a delicate pricing panel with HTML/CSS

Todo List

- Developed a JavaScript demo which can add, list and delete to-do lists and tasks

Automatic Allocation Tool

- Given an input file, assign and reallocate people to groups based on their different skill sets to be well balanced and display update in a frame window using Java

TECHNICAL SKILLS

- **Tools:** Linux
- **Languages:** Java, Python, R, JavaScript, CSS, HTML
- **Data:** SQL (MySQL, PostgreSQL)