JOHNATHAN JIA

Currently searching for fulltime position

I am currently working fulltime as a data analyst in the Liu lab at Baylor College of Medicine. My current projects include QC and analysis of brain organoid scRNA-seq data. I am also currently involved in an IMC project, working to enhance cancer signals using pipelines in Python. I am interested in a fulltime position as a data scientist with broad interests including machine/deep learning, big data analysis, and LLMs.

PROFESSIONAL EXPERIENCE

2023 — **Data Analyst**
Baylor College of Medicine — Houston, TX

- QC and analyzed scRNA-seq data from brain organoid tissues
- Developed pipelines in Python and R for use
- Pipeline for IMC Data Analysis

2022 | 2020 — **Graduate Research Assistant**
UTHSC Houston Graduate School of Biomedical Sciences — Houston, TX

- Developed DeepHTLV
- Analyzed COVID-19 scRNA-seq data transcriptional programs using DrivAER
- Wrote review of current COVID-19 scRNA-seq research

2020 | 2019 — **Research Assistant I**
MD Anderson Cancer Center — Houston, TX

- Collected and prepared samples of blood, bone marrow, and tumor for storage and analysis

EDUCATION

2022 | 2020 — **M.S. in Quantitative Sciences**
UTHSC Houston Graduate School of Biomedical Sciences — Houston, TX

- Thesis: DeepHTLV: a deep learning model for detecting and elucidating human T-cell leukemiavirus type 1 integration sites

2018 | 2015 — **M.D.**
UTHSC Houston McGovern School of Medicine — Houston, TX

2015 | 2011 — **B.S. in Biology, B.A. in Chemistry**
Emory University — Atlanta, GA

- Thesis: Investigating heterogeneity in the dynamics of virus and immune response

AWARDS

2022 — **Best Seminar Presentation**
UTHSC Houston Graduate School of Biomedical Sciences — Houston, TX

- Best QS program seminar presentation

2022 — **First Prize Poster Presentation**
UTHSC Houston Graduate School of Biomedical Sciences — Houston, TX

- First prize for pre-candidacy students

2016 — **Rheumatology Research Foundation Research Award**
UTHSC Houston McGovern School of Medicine — Houston, TX

- Awarded by RRF for AS Shenzhen Cohort Research

CONTACT INFO

jdjia93@gmail.com
github.com/jjia1
832-361-0388

SKILLS

- R
- Python
- Bash
- Jupyter
- LaTex
- Tensorflow
- Pytorch
- Git/Docker

PUBLICATIONS

Deep learning for detecting and elucidating human T-cell leukemia virus type 1 integration sites (Cell Patterns 2023)
H.Xu and **J.Jia**, H.Jeong,Z.Z

Delineating COVID-19 immunological features using single-cell RNA sequencing (The Innovation 2022)
W.Liu, **J.Jia**, Y.Dai, W.Chen, G.Pei,Q.Yan, Z.Zhao

Investigating Cellular Trajectories in the Severity of COVID-19 and Their Transcriptional Programs Using Machine Learning Approaches (Genes 2021)
H.Jeong and **J.Jia**, Y.Dai, L.Simon, Z.Zhao

What Controls the Acute Viral Infection Following Yellow Fever Vaccination? (Bulletin of Mathematical Biology 2016)
J.Moore, H.Ahmed, **J.Jia**, R.Akondy, R.Ahmed, R.Antia

*This resume was made with the R package **pagedown**.*
Last updated on 2023-07-07.