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.

CONTACT INFO

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832-361-0388

SKILLS

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

PROFESSIONAL EXPERIENCE

Jan 2023 | Current

Data Analyst Associate

Baylor College of Medicine Liu Lab — 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

April 2019 | August 2020

Research Assistant I

MD Anderson Cancer Center Immunotherapy Platform — Houston, TX

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

RESEARCH EXPERIENCE

January 2020 | December 2022

Graduate Research Assistant

UT Health Science Center at Houston Graduate School of Biomedical Sciences Zhao Lab — Houston, TX

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

January 2012 | May 2015

Undergraduate Research Assistant

Emory University Antia Lab — Emory University

- Used deterministic and stochastic predator-prey equations to model viral infection dynamics

EDUCATION

August 2020 | December 2022

University of Texas Health Science Center at Houston Graduate School of Biomedical Sciences

M.S. in Quantitative Sciences — Houston, TX

Thesis: DeepHTLV: a deep learning model for detecting and elucidatinghuman T-cell leukemia virus type 1 integration sites

University of Texas Health Science Center McGovern School of Medicine

Houston, TX — August 2015 - May 2018

August 2011 | May 2015

Emory University

B.S. in Biology with High Honors, B.A. in Chemistry — Houston, TX

Thesis: Investigating heterogeneity in the dynamics of virus and immune response following a yellow fever vaccination

*This resume was made with the R package **pagedown**.*
Last updated on 2023-07-05.

PUBLICATIONS

2023

Deep learning for detecting and elucidating human T-cell leukemia virus type 1 integration sites

Cell Patterns

Houston, TX

Haodong Xu and **Johnathan Jia**, Hyun-Hwan Jeong,Zhongming Zhao

2022

Review of COVID-19 scRNA-seq technologies

The Innovation

Houston, TX

Wendao Liu, **Johnathan Jia**, Yulin Dai, Wenhao Chen, Guangsheng Pei,Qiheng Yan, Zhongming Zhao

2021

Investigating Cellular Trajectories in the Severity of COVID-19 and Their Transcriptional Programs Using MachineLearning Approaches

Genes

Houston, TX

Hyun-Hwan Jeong and **Johnathan Jia**, Yulin Dai, LukasSimon, Zhongming Zhao

What Controls the Acute Viral Infection Following Yellow Fever Vaccination?

Bulletin of mathematical biology

James Moore, Hasan Ahmed, **Johnathan Jia**, Rama Akondy, RafiAhmed, Rustom Antia

HONORS AND AWARDS

Best presentation at QS Seminar

2022

Best QS seminar presentation

First prize at UTH GSBS Quantitative Sciences Retreat Poster Presentation

2022

First prize for pre-candidacy students

Rheumatology Research Foundation Research Award

2026

Awarded for Shenzhen AS cohort research