

Juishan Teresa Lin

DATA SCIENTIST · BIOINFORMATICS SPECIALIST

New York City, NY

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Summary

I am an enthusiastic data scientist specializing in data engineering, machine learning, and pipeline building using Python and R. With 3+ years of experience, I am actively seeking opportunities that will allow me to leverage my expertise and analytical skills to drive meaningful insights and outcomes.

Experience

Data Science Associate

NYC, NY

NEW YORK GENOME CENTER

May 2021 - Present

- Improving PRS cross-ancestral transferability using cell-type specific functional annotations trained by deep learning models
- QC and integrating on WGS genotype and phenotype files from 17k individuals.
- Implement pipeline for functional fine-mapping

Research Assistant

State College, PA

THE PENNSYLVANIA STATE UNIVERSITY (ADVISOR: DR. YIFEI HUANG)

Aug 2019 - Mar 2021

- Thesis: Supervised Variant Prioritization and Its Evaluation
- Build a machine learning pipeline mainly with python for variant prioritization, especially in missense mutation
- Maximize the performance by comparing different statistical learning methods (i.e., logistic regression, SVM, and gradient boosting)

Research Assistant

Tainan, Taiwan

NATIONAL CHENG KUNG UNIVERSITY (ADVISOR: DR. JAN-JONG HUANG)

Mar 2017 - Feb 2019

- Study the influence of lung cancer cell on leukocyte transformation
- Use in vivo and in vitro assays to investigate p53-mediated micro-environment in lung cancer progression
- Observe the mobility of M2-like macrophage in conditioned medium of lung cancer cell

Education

M.S. in Bioinformatics and Genomics

State College, PA

THE PENNSYLVANIA STATE UNIVERSITY

Aug. 2019 - May. 2021

B.S. in Biotechnology and Bioindustry Sciences

Tainan, Taiwan

NATIONAL CHENG KUNG UNIVERSITY

Sep. 2015 - May. 2019

Skills

Programming Language	Python, R, Linux/Unix, Git, LaTeX, Conda
Machine Learning	Transformer, Attention, Probabilistic Model, HMM, Supervised Learning
Bioinformatics	PLINK, Variant Prioritization, Fine-mapping, IGV, STAR, GSEA, SAMtools
Others	Pipeline building, Data Engineering, Data Visualization

Honors & Awards

2019	Dean's List , National Cheng Kung University	Tainan, Taiwan
2017	Dean's List , National Cheng Kung University	Tainan, Taiwan
2017	Department representative , Shenh Long Bio-Tech International Co., LTD	Long An, Vietnam
2016	Taiwan representative , Japan-Asia Youth academic exchange	Osaka, Japan
2016	Dean's List , National Cheng Kung University	Tainan, Taiwan