

JINHE ZHANG

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EDUCATION

Jilin University

BE, Software Engineering; GPA: 91.22/100, Ranking: 2/345

Changchun, China

Sep. 2019 – July. 2023

RESEARCH INTERESTS

Machine Learning, Data Mining, Bioinformatics, Health Informatics

EXPERIENCE

Mitacs Globalink Research Intern

BioMed Innovation Lab, Mentor: Prof. Huiyan Li

University of Guelph

Jul. 2022 – Oct. 2022

- * Developed a bioinformatic pipeline for in-silico discovery of potential cancer biomarkers
- * Finished a paper on osteosarcoma detection (submitted)

Software Engineering Intern

ECE and SE Section

FAW-Volkswagen Automobile Co., Ltd.

Apr. 2022 – Jul. 2022

- * Constructed essential pipelines using cloud service to forecast output of products.
- * Participate in the development of a new navigation systems of Audi.
- * Participate in the development of an infotainment software.

Machine Learning Lab

Research Assistant, Mentor: Prof. Lü Shuai

Jilin University

Oct. 2020 – Jan. 2022

- * Mainly focus on deep reinforcement learning, sparse reward problems.
- * Participated in a paper about off-Policy maximum entropy deep reinforcement, soft Q-learning and soft actor critic.

Health Informatics Lab

Research Assistant, Mentor: Prof. Fengfeng Zhou

Jilin University

Apr. 2020 – Jun. 2021

- * Obtained programming experience in Python & R primarily regarding scikit-learn.
- * **Feature Selection Algorithm:** Designed a feature selection algorithm suitable for Methylome Biomarkers binary classification problem.
- * **Technical Report:** Implemented the selection algorithm in a python package and performed methylation biomarker prediction.
- * **Estimation:** Estimated Immune cell fractions from Bulk RNA Sequencing data using Deconvolution Algorithm.

SELECTED PROJECTS

A Bot for Go Game (Game Theory & Heuristic Algorithm): Designed a bot program with extremely high win ratio in Go game using Monte Carlo tree search(MCTS).

Smart Snake (Search Algorithm): Designed a bot using alpha-beta pruning & memory-enhanced test driver.

A Shopping Website (bootstrap): Designed and implemented a shopping website.

A Pipeline: Buildt a pipeline for the BioMed Innovation Lab.

Awards & Honors

- National Scholarship, Ministry of Education of China
- Mitacs Globalink Research Internship Award
- First Class Scholarship, Jilin University
- Outstanding Undergraduate, Jilin University
- Meritorious Winner, Mathematical Contest In Modeling, MAA