JINYU HOU

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EDUCATION

University of Toronto, Honors Bachelor of Science *2018 - 2022*
cGPA: 3.87/4.0 (Dean's List Scholar)
Computer Science Specialist, Program cGPA: 3.98/4.0
Focus: Computer System & Web And Internet Technologies

ACADEMIC EXPERIENCES

Summer Research Student 2020.5 - 2020.8
Lunenfeld-Tanenbaum Research Institute of Sinai Health System

· Worked on developing statistical machine learning model which analyzes epithelial cell RNA dataset to determine cancer cells under the supervision of Dr. Kieran R. Campbell.

Project Developer 2019.6 - present
UTMIST (University of Toronto Machine Intelligence Student Team)

· Project associate: Being part of a machine learning research project (GAN Training Stop-point Research Project). Implemented and integrated the VAE feature extraction section of the testing model which includes FID scoring analysis through the Gaussian distribution in the latent space.

EXTRACURRICULAR EXPERIENCES

Science Writer 2019.5 - present
Varsity Publications Inc. (University of Toronto student newspaper)

Research Assistant 2019.5 - 2019.8
Agrawal Lab (University of Toronto Evolutionary Genetics Lab)

Student Researcher 2016.5 - 2017.4
Hebei North University

· Investigated the effect of wilfoside C3N on the death of tumor cells (ECA109) and published on the university journal.

TECHNICAL STRENGTHS

Programming	Python, Java, C, Verilog, R
Software & Tools	MS Office, LaTeX, Android Studio
Machine Learning Tool	Pytorch, Numpy
Image & Video Processing	Adobe Software (Illustrator, PS, Premier, LR)
Web Dev	HTML5, JavaScript, Django

PROJECTS

OfftheBlock 2020.1
UofTHacks VII (Major League Hackathon) *2nd place for ChainSafe sponsor's award*

· An ID registration platform applied face recognition system for registration and blockchain encryption technology for data storage. Distinguished as "a nice implementation of blockchain encryption". Was in charge of the web development and UI design with HTML, VUE and JavaScript.

GAN Training Stop-point Research Project 2019.10 - present
UTMIST

· A research project aiming at finding a method to determine an appropriate stop point of GAN training where the model can end up being neither under-fitting nor over-fitting. As the GAN being trained, the GAN-generated images and real images are feature extracted using VAE encoder. The distance between the two datasets are then evaluated with FID (Fréchet Inception Distance) Score.

PUBLICATION

Hou Jinyu, Wang Jing. Wilfoside C3N Promotes Tumor Cell Death by Activating Gammadelta T Cells-Mediated Anti-tumor Immunity[J]. Journal of Hebei North University (Natural Science Edition), 2017, 33(2): 1-10.