

TIANZE(TOM) YANG

✉ tianze.yang@mail.mcgill.ca · ☎ (+1) 5145609523 · in TianzeYang

EDUCATION

McGill University, Montreal, GPA:3.89

2020 - **May 2023**

B.Sc. Honor Probability and Statistics, Minor Computer Science

PUBLISHED PAPER

- AICOM-MP: AN AI-BASED MONKEYPOX DETECTOR FOR RESOURCE-CONSTRAINED ENVIRONMENT

INTERNSHIP/PROJECTS

ML Engineer, Website(Full stack) and Android Developer. Montreal Sep 2022 - Present

- Developed **SOTA** Monkeypox Screening AI and Pipeline on Website, Android App, and Autonomous Vehicle using **Angular, Python + Flask, Efficient Net etc., GCloud Engines, HTML, CSS**
- Mentor: Dr. Shaoshan Liu, Prof. Xue Liu

Quantitative Risk Management(QRM) Data Analyst Intern. Montreal Sep 2022 - Present

- Understanding and Applying QRM Techniques to Analyze Cryptocurrency Financial Data using **R, Extreme Value Analysis, Time Series Analysis, Copula**
- Mentor: Prof. Christian Genest

Website(Full stack) Developer& AI Model Engineer. Montreal July 2021 - Present

- Developed a Medical AI Assistant, *OmicsForum*, and a metabolomic tools search engine using **Python, Rasa, Discourse, Java+JS, MongoDB, MeiliSearch HTML, CSS**
- Mentor: Prof. Jianguo Xia

ML Intern. Montreal March 2022 - Sep 2022

- Understanding and Applying Fundamental Reinforcement Learning Techniques such as Multi-armed Bandits and Finite Markov Decision Process, using **Python**
- Mentor: Prof. Yi Yang

ML Engineer & Data analyst. Montreal May 2022 - Sep 2022

- Analyzed Human Scanpath Data and Modeled Human Visual Search Behaviours using **Python, Zero-shot Invariant Visual Search, Bottom-up Inverse Reinforcement ML Learning, Matlab**
- Mentor: Prof. Suresh Krishna

ML Engineer. Montreal Sep 2021 - May 2022

- Classified Neuroscience Database Usage Information and Achieved 80% Accuracy Using **Python, Sequential Neural Network, Bayesian Regression, Logistic Regression**
- Mentor: Prof. Jean-Baptiste Poline

SKILLS

Math & CS

Linear Regression, Nonparametric Statistics, Probability, Statistics, Vector Calculus, Applied Linear Algebra, Discrete Mathematics, Reinforcement Learning, R; Python, Keras, Flask, Google Cloud, Angular, Rasa, Database(Postgresql, Sqlite, MongoDB), Computer Vision, Tensorflow, OpenCV, Java, C, Matlab, HTML, CSS

REWARDS/LEADERSHIP

McGill University Renewable Annual Scholarship

2020-2023

Deans Honor List(Wing Hing Chan Scholarships in Science)

2020-2021

Mari Hack

2020