

# TIANZE(TOM) YANG

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## EDUCATION

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**McGill University**, Montreal 2020 - present  
B.Sc. Honor Probability and Statistics, Minor Computer Science, Expected Graduation Date: June 2023

## INTERNSHIP/PROJECTS

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

- Develop Monkeypox Screening AI on Website, Android App, and Autonomous Vehicle using
  - Angular, Python + Flask, Efficient Net + DCSAU Net etc., Google Cloud, HTML, CSS
- Mentor: Dr. Shaoshan Liu, Prof. Xue Liu

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

- Understand and Apply QRM Principles using
  - R, Extreme Value Analysis, Time Series Analysis, Value-at-Risk
- Mentor: Prof. Christian Genest

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

- Develop Medical AI Assistant and Build the Interactive Platform *OmicsForum* using
  - Python, Rasa, Discourse, Java+JS, MongoDB, HTML, CSS
- Mentor: Prof. Jianguo Xia

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

- Analyze Human Scanpath Data and Model Human Visual Search Behaviours using
  - Python, Computer Vision State-of-the-art Model (Zero-shot Invariant Visual Search, Bottom-up Inverse Reinforcement ML Learning,), Matlab
- Mentor: Prof. Suresh Krishna

**ML Engineer.** Montreal Sep 2021 - May 2022

- Analyze Neuroscience Database Usage Information Using
  - Python, Sequential Neural Network, Bayesian Regression, Logistic Regression, Text Mining
- Mentor: Prof. Jean-Baptiste Poline

## SKILLS

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### Math

Linear Regression, Nonparametric Statistics, Probability, Statistics, Vector Calculus, Applied Linear Algebra, Discrete Mathematics, Reinforcement Learning, R

### CS

Python, Keras, Flask, Google Cloud, Angular, Rasa, Database(Postgresql, Sqlite, MongoDB), Computer Vision, Tensorflow, OpenCV, Java, C, Matlab, HTML, CSS

## REWARDS/LEADERSHIP

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McGill University Renewable Annual Scholarship	2020-2023
Deans Honor List( Wing Hing Chan Scholarships in Science)	2020-2021
Huawei Seeds for the Future 2021 Graduate	2021
Mari Hack	2020