Quentin FRUYTIER

MSc Candidate
McGILL UNIVERSITY

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Supervisors

Abbas Khalili
Tim Hoheisel

Programming Skills

Python (PyTorch & TensorFlow)
Java
C & C++
C#
Matlab
R

Languages

Bilingual French (native) and English

Interests

Machine Learning
Statistical Learning
Data Analysis
EM Algorithm

Education

McGill University • Masters in Mathematics • 4.0/4.0 GPA — expected 2023

McGill University • Joint Honours Math & Comp. Sci. • 3.8/4.0 GPA — June 2021

Work Experience

Teaching Assistant—Calculus 2 — Winter 2022
McGill University Department of Mathematics and Statistics — *Montreal, QC*
Gave tutorials involving formal presentation of carefully prepared illustrative examples worked on blackboard. Regularly scheduled office hours per week. Marked assignments, midterms and finals.

Data Science Intern at Nectar — Summer 2021
Nectar Technologies Data Science — *Montreal, QC*
Prototyped, of supervised and unsupervised machine learning models on sensor data. Documented model development, model iterations, and benchmarked results. Wrote Python scripts to automate data exploration process. Communicated results and insights to operations and product teams.

Software Engineer Intern at Akamai — Summer 2020
Akamai Technologies Image Manager — *Ottawa, ON*
Developed and implemented software using existing API to ensure correctness of information in production network configuration file used for deploying software to production.

Software Engineer Intern at Matrox — Summer 2019
Matrox Electronics Systems Ltd. Software Quality Assurance — *Montreal, QC*
Created, improved and fixed automated tests for product that encodes and sends images over network to another product that displays it, using C# in Visual Studio.

Teaching Assistant—Foundations of Programming (Python) — Fall 2019
McGill University Department of Computer Science — *Montreal, QC*

Team Mentor—Foundations of Programming (Java) — Winter 2019
McGill University Department of Computer Science — *Montreal, QC*

Personal Projects

Deep Learning for Traffic Prediction — Winter 2021
Studied variants of **Graph Neural Networks** and **Recurrent Neural Networks** to capture both spatial and temporal dependencies of traffic data. Implemented these in **Python** with **TensorFlow** (GPU acceleration). Experimented with **METR-LA** and **QTraffic** data sets.

Awards

Graduate Excellence Fellowship Award — May 2022
McGill University award for academic excellence

Tomlinson Engagement Award for Mentoring — April 2019
McGill University award for assistant teaching in undergraduate classes.

J W McConnell Scholarship — March 2017
McGill University Major Renewable Entrance Scholarship .