Kevin Ma

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Skills and Qualifications

Github: https://github.com/kma32527
Technical Skills: Python, JavaScript, Java, MATLAB, Bash, LaTeX

- Excellent analytical skills.
- Strong technical and professional writing skills.
- Experience with Python machine learning libraries, including scikit-learn, Keras, and TensorFlow.
- Dual citizen of Canada and the United States.

Projects

Latent Semantic Indexing for Academic Text Retrieval
Python

- Package for clustering a database of related articles based on semantic content.
- Implementation of latent semantic indexing with bag of words feature extraction and binary term-inclusion variables using scikit-learn and NLTK.

PLOS Text Pre-processor
Python

- Package for extracting clean, structured text data from Public Library of Science (PLOS) .xml files.
- Compatible with the 200,000+ open-source, peer-reviewed research articles downloadable from plos.org.

Work Experience

Statistical Programming Apprentice at *Veristat*, Montreal, QC
June 2019 - August 2019

- Developed and tested macros in SAS for automating business processes.
- Implemented CDISC statistical programming standards for clinical trials.

Research Intern at *McGill University*, Montreal, QC
Department of Mathematics *Summer 2018*

- Studied the behaviour of solutions to reaction-diffusion equations, used extensively for modelling population dynamics and pattern morphogenesis (Turing patterns).
- Presented research at the departmental undergraduate research conference to over 50 faculty members, undergraduate researchers, and graduate researchers.

Market Analysis Intern at *Boston United Trade Corp*, Acton, MA, United States
Summer 2017

- Analyzed China's pet food market and identified potential US brands to enter the Chinese market.
- Developed several potential vendors for China's market by attending trade shows, with two of them becoming long-term vendors.

Research Intern at *BC Cancer Research Center*, Vancouver, BC
Integrative Oncology *Summer 2016*

- Developed a quick and non-invasive skin cancer diagnostic prototype based on dual-band fluorescence skin imaging.
- Validated the prototype in various cases including detection of both visible and subcutaneous protein concentrations.

Education

September 2015 - December 2019 — Bachelors of Arts, **McGill University**, Montreal
Major: Mathematics | Minor: Computer Science

Relevant Coursework

- Applied Machine Learning
- Artificial Intelligence
- Advanced Probability Theory
- Honours Statistics

Extracurricular Activities and Projects

VP External of McGill Biology Student Union (MBSU) *May 2017-April 2018*

- Represented 500 McGill biology undergraduates at student and faculty meetings and events.