Kevin Ma

Personal Information

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Skills and Qualifications

Languages: Python, SQL, Java, SAS, MATLAB, Bash
Technical Skills: Data Mining, Data Manipulation, Data Visualization, Probability/Statistics
- Communicating complex analysis results to internal and external project stakeholders from diverse backgrounds.
- Preparing and analyzing raw data from a wide range of sources.
- Leveraging interdisciplinary knowledge for problem-solving.
- Implementing Python data science libraries, including sklearn, NumPy, and NLTK.
- Dual citizen of Canada and the United States.

Work Experience

Statistical Programming Apprentice at *Veristat*, Montreal, QC
June 2019 - August 2019
- Loaded, cleaned, and organized clinical data sets for statistical analysis using SAS and SQL.
- Performed quality control programming on final reports.
- Kick-started the development and implementation of SAS macros for data verification purposes.

Research Intern at *McGill University*, Montreal, QC
Department of Mathematics *Summer 2018*
- Studied the behavior of solutions to reaction-diffusion equations, used for modelling population dynamics and pattern morphogenesis.
- Presented results at the Department of Mathematics undergraduate research conference to faculty members and student researchers.

Market Analysis Intern at *Boston United Trade Corp*, Acton, MA, United States
Summer 2017
- Gathered and analyzed data to identify favorable US brands to enter the Chinese market.
- Developed pet food vendors for the Chinese market by attending trade shows, with two becoming long-term vendors.

Research Intern at *BC Cancer Research Center*, Vancouver, BC
Integrative Oncology *Summer 2016*
- Developed a non-invasive skin cancer diagnostic device based on dual-band fluorescence skin imaging.
- Programmed an application to visualize imaging results using MATLAB.
- Validated device's efficacy in detecting visible and subcutaneous protein concentrations.

Projects

Latent Semantic Indexing for Academic Text Retrieval
Python
- Program for organizing and searching through databases of articles based on semantic content of texts.
- Implementation of latent semantic indexing using sklearn and NLTK.

Education

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

Relevant Coursework

- COMP 551 Applied Machine Learning
- COMP 424 Artificial Intelligence
- MATH 587 Advanced Probability Theory I
- MATH 357 Honours Statistics

Organizations

VP External of McGill Biology Student Union (MBSU) *May 2017-April 2018*
- Represented 500 McGill biology undergraduates at student and faculty meetings and events.