

MATTHEW ANGOH

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SKILLS

Programming Languages: Python, SQL, R, Bash | **Data Analytics Software/Tools:** MySQL, MongoDB, Excel, Tableau, Python/R Libraries (Pandas, Numpy, ggplot) | **Development Tools:** Git, Command Line, Jupyter, ER/UML, XML, JSON, VBA

PROFESSIONAL EXPERIENCE AND PROJECTS

Shriners Hospitals for Children Canada, Research Department

Montreal, QC

Student Researcher

April 2023 - October 2023

- Optimized a Python-based data pipeline utilizing Xamflow for bone image analysis, streamlining data processing. This significantly improved efficiency handling large datasets (~500 GB) and reduced run time from >24hrs to <4 hrs.
- Developed multiple stages of an abstract bone loading study: dissected 50+ chickens, prepared 100+ bones via wet sawing, dehydration, and staining; Optimized image quality versus scanning times using the confocal microscope.
- Worked cross-functionally with a PhD candidate and spearheaded the project's Standard Operating Procedure.

McGill University, Division of Experimental Medicine

Montreal, QC

Honors Research Project

September 2022 - April 2023

- Analyzed murine spinal cords of fibromyalgia affected mice using confocal microscopy and immunofluorescence.
- Conducted ANOVA and Student's t-test with Prism for robust statistical analysis on data generated using the 2D/3D image visualization tools ImageJ and Imaris; highlights include increased CD68 and reduced microglial complexity.
- Presented key findings at McGill's Undergraduate Research Day, underscoring microglial behaviors in fibromyalgia.

Swimming With A Mission Canada (SWAM, Non-Profit)

Remote, Canada

Data Analyst

March 2020 - August 2020

- Wrangled and analyzed data across 15 chapters using Excel, focusing on enrollment, operations, and demographics.
- Guided audience growth and program enhancements using dashboards presented to SWAM's executive board.

EDUCATION AND HONORS

University of British Columbia, Irving K. Barber Faculty of Science

Kelowna, BC

Masters in Data Science (MDS)

July 2024 (Expected)

- Cumulative GPA: 4.32/4.33 (equivalent to 4.0 on a 4.0 scale) (To Date)
- Relevant Coursework: Databases and Data Retrieval, Web and Cloud Platform Computing, Scripting, Predictive Modeling, Algorithms and Data Structures, Resampling and Regularization, Modeling and Simulation

McGill University, School of Biomedical Sciences

Montreal, QC

First Class Honors Bachelor of Science (Physiology), Minor in Social Studies of Medicine

May 2023

- Cumulative GPA: 3.84 / 4.0
- J W McConnell Entrance Scholarship

Fall 2019 - Winter 2021

Meadowridge School, Secondary School

Maple Ridge, BC

International Baccalaureate Diploma Program (IBDP)

May 2019

- IBDP 42/45, Governor General Award, and Valedictorian of Class of 2019

LEADERSHIP AND VOLUNTEERING

Swimming With a Mission Montreal (SWAM, Non-Profit)

Montreal, QC

President

September 2019 - April 2023

- Recruited and led an executive team of 8, providing specialized swimming lessons for special-needs students.
- Grew the non-profit post-COVID-19; Expanded from 3 to over 120 members, showcasing adaptability and leadership.
- Managed legal compliance, including instructor background checks and insurance coordination with Intact.

Undergraduate Student Union (Physiology Undergraduate League of Students, PULS)

Montreal, QC

Vice-President Finance

August 2022 - May 2023

- Managed a \$10,000 budget, conducted monthly audits, and ensured equitable financial distribution across teams.

Communications Director

January 2021 - May 2022

- Deployed a new communication server using Discord, and updated the union's HTML-based website.
- Managed the Union's communication via Instagram, Facebook, and Gmail, fostering dialogue between stakeholders.

Haney Seahorse Swim Club

Maple Ridge, BC

Youth Swimming Coach

October 2020 - June 2021

- Mentored youth swimmers, leading an initiative that ensured all participants achieved competition-ready starts.