MATTHEW ANGOH

GitHub | matthew.angoh.ds@gmail.com | mattangoh.github.io | BC, Canada | LinkedIn

SKILLS

Languages: Python, SQL, R, Bash, XML, JSON, HTML | **Data Analytics Software/Tools:** MySQL, MongoDB, Excel, Tableau, Python/R Libraries (Pandas, Numpy, ggplot) | **Development Tools:** Git, CI/CD, Command Line, Prompt Engineering

PROFESSIONAL EXPERIENCE AND PROJECTS

Scientific Researcher — April 2023 - October 2023
Shriners Hospitals for Children Canada, Research Department — Montreal, QC

- Refined a Python-based data pipeline for bone image analysis, achieving significant data processing optimizations. Adapted the system for efficient handling of terabytes of data and reduced run time from >24hrs to <4 hrs.
- Developed and implemented a comprehensive multivariate testing protocol for bone strength analysis in chickens, considering strain, housing, and euthanasia age. Fine-tuned multi-million dollar microscopy equipment to optimize the balance between image quality and scanning efficiency, significantly improving data acquisition efficacy.
- Collaborated cross-functionally with a PhD candidate and spearheaded the project's Standard Operating Procedure.

Data Analyst — September 2022 - April 2023
McGill University, Division of Experimental Medicine — Montreal, QC

- Analyzed spinal cords affected by fibromyalgia using confocal microscopy and immunofluorescence. Employed rigorous randomization and A/B sampling techniques to ensure precision and enhance validity of the study findings.
- Conducted ANOVA and Student's t-test with Prism for robust statistical analysis using image visualization tools.
- Presented significant research findings at McGill's Undergraduate Research Day, emphasizing nuanced microglial behaviors in fibromyalgia, informed by advanced imaging and analytical techniques.

Data Analyst — March 2020 - March 2021
Swimming With A Mission Canada (SWAM, Non-Profit) — Remote, Canada

- Wrangled and analyzed data across 15 chapters and hundreds of participants using Excel, focusing on enrollment, operations, and demographics. Developed large-scale surveys, leveraging non-probabilistic sampling techniques.
- Guided audience growth and program enhancements using dashboards presented to SWAM's executive board.

EDUCATION AND HONORS

Masters in Data Science (MDS) — July 2024 (Expected)
University of British Columbia, Irving K. Barber Faculty of Science — Kelowna, BC

- Cumulative GPA: 4.32/4.33 (equivalent to 3.99 on a 4.0 scale)
- 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.