MATTHEW ANGOH

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

SKILLS

Languages: Python, R, SQL, NoSQL, Bash, XML, JSON, HTML **| ML Tools / Predictive Modelling:** Deep learning Neural Networks (Pytorch), KNN, Bootstrapping, Bagging, Random Forests, Boosting, LASSO, Markov Chains, MLR **|**
Development Tools: AWS, Git, DevOps: CI/CD, Command Line, Prompt Engineering, Excel, Tableau, Web Scraping **|**

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   Sept 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 AWARDS

Masters in Data Science (MDS)   July 2024 (Expected)
University of British Columbia, Irving K. Barber Faculty of Science   Kelowna, BC
- Cumulative GPA: 3.98 / 4.0
- Relevant Coursework: Predictive Modeling, Data Structures and Algorithms, Supervised/Unsupervised Learning, Web and Cloud Platform Computing, Databases and Data Retrieval, Resampling and Regularization, Scripting

First Class Honors Bachelor of Science (Physiology), Minor in Social Studies of Medicine   May 2023
McGill University, School of Biomedical Sciences   Montreal, QC
- Cumulative GPA: 3.84 / 4.0

Honors and Awards
- **J W McConnell Entrance Scholarship:** McGill Scholarship for incoming students   Fall 2019 - Winter 2021
- **Governor General Award:** Secondary School Highest Academic Achiever   May 2019
- **Valedictorian:** Secondary School Class Nominated   May 2019

LEADERSHIP

Swimming With A Mission Montreal (SWAM, Non-Profit)   Montreal, QC
President   Sept 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.