

Adam Yeo

☎ (437)-772-5800 ✉ a5yeo@uwaterloo.ca  [adamyeo6762](https://www.linkedin.com/in/adamyeo6762)

Skills & Interests

Data Tools/Languages: Python, SQL, Excel, R, Microsoft Suite, PowerBI, Tableau, Oracle DBMS

Python/ML Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, NLTK, Jupyter

Interests: Sports betting, Mob films, Learning languages, Cooking authentic pasta, Reading biographies

Experience

Bioinformatics Intern

University Health Network

May 2022 – August 2022

Downtown, Toronto

- Parsed and cleaned **1M+ raw datasets** of genomic sequences using BCFTools to process for visualization
- Constructed a wide array of **data visualizations** (boxplot, histogram, heatmap, etc) using **Matplotlib & Tableau**
- Implemented **correlation matrices** using **Pearson rank** model to **reduce lab costs** for specimen comparisons
- Wrote automated scripts to pull and modify organoid data & export as CSV files to **increase workflow** by **20%**
- Created weekly **MS PowerPoint** slides to present my analyses to senior cancer researchers and lab technicians

Personal Projects & Achievements

Intact Data Challenge Winner | [Naive-Bayes Medical Specialty Classifier](#)

Feb 2023

- Developed a **Multinomial Naïve-Bayes** classification model that predicts medical specialties from 4000+ medical insurance claims from Intact
- Utilized NLP text preprocessing with **NLTK** to clean raw transcribed data, using bag-of-words & lemmatization
- Implemented Scikit-Learn pipeline for **hyperparameter tuning** to maximize F1 Macro score

Hack the North 2022 Champion | [Reading-Performance Tracker for Dyslexia](#)

Sept 2022

- Developed a reading-performance tracker app on **Flutter** that analyzes reading patterns from eye movement
- Modified custom SDK using **HTTP protocol** to read real-time data from **AdHawk Backend** to the **localhost** server
- Reached **Top 12 Finalist** of 300+ teams at the **biggest hackathon in Canada** + \$500 monetary reward

Sports Betting Arbitrage Calculator

May 2022

- Designed a Python script that takes in betting odds/stakes to compute implied probability for consistent profit
- Used financial concepts such as **market inefficiencies** to capitalize on the difference across various markets/apps
- Made a **605%** return within 3 months with a **net profit of \$1513.22** from an **initial \$250 deposit**

Extracurriculars

Events Coordinator

UWaterloo Data Science Club

January 2023 – Current

Waterloo, ON

- Organized E-Leetcode Sessions and DS/ML workshops (Tableau, NLP, ...) to help students in their job search
- Organized fun social events (Movie nights, Scavenger hunt) to bring together the DS/ML community at UW

Research Assistant

Princess Margaret Cancer Centre

October 2019 – June 2020

Downtown, Toronto

- Wrote automated scripts using the **Xlrd** Python package for **data formatting** of specimen data in Microsoft Excel
- **Biorepository software** handling for a database that handles **39K+** cancer patients registered to PMCC
- One of **four** students in all of the Toronto District School Board to be selected for a PMCC research position

Education

University of Waterloo

Candidate for an Honours Bachelor of Mathematics

Major in Statistics with a Minor in Computing & Economics

Waterloo, ON

Sept 2021 – April 2025