JORDON CHEN

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EDUCATION

BSc, University of British Columbia (Vancouver) – *MBIM & Data Science*   2018 - 2023
- Dean's Honours List for all eligible semesters, (2018, 2019, 2020)
- *Key Courses:* Data Science Research in Microbiology (95%), Statistical Modelling for Data Science (86%), Visualization for Data Science (86%), Applied Machine Learning (83%)

RESEARCH & PROJECTS

Spatial region of habitat drives fish gut microbial diversity, composition, and functionality Jan 2023
- Wrote reproducible **QIIME 2** workflows to clean, filter, and export sequencing data for downstream analyses
- Performed alpha and beta diversity analyses using statistical tests such as **ANOVA**, **Wilcoxon**, & **PERMANOVA** in **R** *stats* package
- Conducted taxonomic and functional analyses utilizing R packages: *phyloseq*, *microbiome*, & *ggpicrust2*
- Created and managed **Github** repository to share and compile R scripts and figures

Predicting NBA Player Points per Game based on Player Characteristics   Jan 2022
- Worked in team of 4 to analyze a dataset for an association between a NBA player's years of experience, height, and division on points per game
- Read, cleaned, and conducted **exploratory data analysis (EDA)** on dataset using R packages including *dplyr*, *tidyr*, and *GGally*
- Utilized functions in *glmnet* & *caret* to conduct cross-validation alongside **linear models** to assess performance

WORK & RELEVANT EXPERIENCE

Beatdapp – *Uncovering Music Streaming & Royalty Fraud*   **Vancouver, BC**
Data Analyst   Aug 2023 - Present
- Performed **EDA** on distributor datasets of 1,000,000+ data points, using **Python** and **SQL** to provide direction for downstream analyses
- Designed internal and external **Google Looker** and **Redash** dashboards for music distributors, providing comprehensive overviews of data and aiding in outlier detection
- Improved detection of music streaming fraud using **Analytic Hierarchy Process (AHP)**, optimizing subsequent labeling
- Provided validation on **XGBoost** predictions in feedback loop to refine model accuracy, precision, and recall
- Supported construction of **Neo4j** and **NetworkX** network graphs that uncovered streaming botnets and fraudulent payees

UBC Institute for the Oceans and Fisheries – *Species Distribution Modelling*   **Vancouver, BC**
Research Intern   Jan 2023 - Present
- Extracted data from marine species databases, cleaning and tidying data using R for downstream analyses
- Conducted **PCA** and **ENFA** tests on ecogeographical variables and species presence data
- Created and optimized **ML** models including *random forests*, *boosted regression trees*, & *ensembles* to predict future species distribution

UBC Department of Microbiology & Immunology – *Foundations of Microbiology*   **Vancouver, BC**
Teaching Assistant   Jan 2023 - May 2023
- Cooperated with teaching team to deliver course syllabus to class of over 200 students, fostering environment of open communication and interest in discovery
- Implemented weekly tutorials under the supervision of the professor, presenting and building on topics and ensuring learning goals were met
- Monitored discussion board, patiently answering questions and leading students towards conclusions

LEADERSHIP EXPERIENCE

Engaged Communities Canada Society – *Nonprofit Community Outreach*   **Vancouver, BC**
Program Coordinator   Mar 2022 - Present
- Collaborated with program coordinators to organize and execute unique weekly experiences to youth ages 12+
- Assisted in the implementation and delivery of hygiene, food, and harm prevention services in Surrey and Abbotsford for communities in greatest need