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%), Applied Machine Learning (83%), Statistical Modelling for Data Science (86%), Visualization for Data Science (86%)

RESEARCH & PROJECTS

Spatial region of habitat drives fish gut microbial diversity, composition, and functionality

January 2023

- Wrote reproducible QIIME 2 workflows to clean, filter, and export sequencing data for downstream analyses
- Performed alpha and beta diversity analyses with the use of various statistical tests in R *stats* package
- Conducted taxonomic and functional profile 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   January 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 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

UBC Institute for the Oceans and Fisheries – *Species Distribution Modelling*   **Vancouver BC**
Research Intern   January 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 to predict future species distribution

UBC Department of Microbiology & Immunology – *Foundations of Microbiology*   **Vancouver BC**
Teaching Assistant   January 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   March 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

Semiahmoo Secondary School – *Fostering a Love for Hoops*   **Surrey BC**
Head Basketball Coach   September 2021 - March 2022
- Organized and hosted Grade 9 boys provincial championship and banquet for 20 teams from British Columbia
- Worked in collaboration with co-coach to create unique practices dedicated to improving player skill level and promote enjoyment and character development