

Xinghao Huang

BSc Statistics, Year 3

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Education

University of British Columbia	Kelowna & Vancouver, BC
Bachelor of Science: Major in Statistics	Sep, 2023 – Present
Honours:	
Go Global International Learning Programs Award	May, 2025
Dean's List 2023 W	May, 2024

Technical Skills

Languages: Python, R, C++, Java, SQL

Data Science & Statistics: EDA, data cleaning, data visualization, statistical inference, regression models, ANOVA, hypothesis testing, A/B testing, confidence intervals, prediction

Computer Science: OOP, data structures & algorithms, pointers & memory management, Big-O

Libraries: Pandas, NumPy, tidyverse, ggplot2, Altair, scikit-learn, Flask, React, JUnit

Tools: Git, GitHub, Jupyter, RStudio, VS Code

Academic Projects

Airbnb Prices Analysis (Jupyter & R)	Sep, 2025 – Dec, 2025
<ul style="list-style-type: none">Conducted an end-to-end inferential analysis on Athens Airbnb data, performing data wrangling and classical inference using Multiple Linear Regression (MLR) to identify key pricing determinants.Collaborated to implement advanced modelling techniques, including dataset splitting for unbiased inference, Variance Inflation Factor (VIF) analysis, and nested F-tests for variable selection.Optimized model validity by conducting rigorous diagnostics (linearity, normality) and applying log-transformations, while leading the R coding workflow and interpretation for the final group report.	
Canadian Fire Visualization (Jupyter & Python)	Sep, 2025 – Dec, 2025
<ul style="list-style-type: none">Collaborated to analyze the Canadian National Fire Database, developing a robust coding scheme to standardize inconsistent fire-cause labels and handle missing data across decades of records.Engineered two interactive dashboards in Altair featuring multiple visualizations: a geospatial frequency map for regional distribution and a severity analysis using jittered strip plots and lollipop charts to identify extreme fire events.Designed intuitive metaphors, such as custom flame markers and thermometer-style axes, to visually communicate fire severity trends to non-technical audiences.	
Simple Music Player (Java)	Jan, 2025 – Apr, 2025
<ul style="list-style-type: none">Architected a robust object-oriented application for managing and playing music, implementing a Java Swing GUI with interactive playlist management.Engineered a persistent data layer using JSON serialization to save and reload user libraries and preferences across sessions.Designed a modular system utilizing the Singleton Pattern for global event logging and Iterator Pattern for	

traversal, validated by comprehensive JUnit test suites.

Personal & Non-Academic Projects

UBC Live (Python) – UBC Data Science Club

Nov, 2025 – Present

- Contributing to a student team building a real-time analytics platform to predict campus study-space availability and bus crowding.
- Working with the subgroup responsible for UBC Workday data, assisting in identifying accessible data sources, and understanding data governance requirements.
- Standardizing raw HTML data into structured CSV datasets to support the team's student density modeling, ensuring strict adherence to schema requirements.

SkySync (Python, JavaScript, CSS) – HackCamp 2025

Nov 15, 2025 – Nov 16, 2025

- Developed a weather-responsive music recommendation platform during HackCamp 2025, collaborating in a 4-person team to ship a working Minimum Viable Product (MVP) within a 18-hour deadline.
- Spearheaded the frontend interface development, designing and implementing a responsive web layout to visualize real-time data and ensure a seamless user experience.
- Engineered the Flask backend to integrate OpenWeatherMap and Spotify APIs, mapping real-time meteorological data (e.g., rain, temperature) to mood attributes for dynamic playlist generation.

Additional Experience

Fudan International Summer Session 2025

Shanghai, China

UBC Go Global Summer Abroad Program

Jun, 2025 – Jul, 2025

- Completed 5 UBC-transferable Arts credits through an international exchange program, gaining academic and cultural experience at one of China's top universities.
- Led a 5-person team in a comparative analysis of US-China AI Competition, synthesizing geopolitical and technological perspectives to deliver a final presentation on global tech policy.

China CITIC Bank — Talent Program Participant

Changchun, China

Certificate of Completion

Jul, 2024 – Aug, 2024

- Participated in a youth talent program hosted by China CITIC Bank, receiving introductory training in banking operations, financial products, and customer service practices.
- Engaged in community outreach activities, including supporting children with congenital autism through volunteer visits and interactive sessions.
- Delivered the closing ceremony speech on behalf of all participants and contributed to a group presentation summarizing program insights.