

Jingyuan Liu

Vancouver, BC, Canada

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EDUCATION

The University of British Columbia (UBC)

Master of Science in Statistics

Vancouver, BC, Canada

September 2026 - Expected May 2028

- Scholarships & Awards: Departmental Entrance Scholarship (Mar. 2026)

The University of British Columbia (UBC)

Bachelor of Science in Statistics, with Distinction, Minor in Data Science

Vancouver, BC, Canada

September 2021 - May 2026

- Average: 91.4% (GPA equivalent: 4.21/4.33)
- Scholarships & Awards: UBC Faculty of Science International Student Scholarship (Dec. 2025, Dec. 2024 & Jan. 2024), UBC Charles and Jane Banks Scholarship (Sep. 2023), UBC 2023 Winter Session Science Scholar (Jul. 2023), UBC International Major Entrance Scholarship (May 2021)

WORK EXPERIENCE

The University of British Columbia (UBC)

Graduate and Undergraduate Teaching Assistant

Vancouver, BC, Canada

January 2023 - Present

- Departments Associated: Department of Statistics, Department of Mathematics, Department of Physics & Astronomy
- Courses Assisted: MATH 100 – Differential Calculus with Applications (1 term), MATH 101 – Integral Calculus with Applications (1 term), PHYS 170 – Mechanics I (5 terms)
- Led tutorials, developed assessment rubrics, held office hours, graded assignments and exams, and collaborated with instructors and other TAs to enhance student learning through effective communication and teamwork

RESEARCH EXPERIENCE

Research Assistant, Clinical Trials Research Project (Affiliated with BC Fraser Health Authority)

BC, Canada

UBC Department of Statistics & UBC Faculty of Medicine (Project Mentor: Dr. Keegan Korthauer)

January - July 2025

- Topic: Diabetes Outcomes Utilizing a New Multidisciplinary Framework in a Community Endocrinology Clinic
- Focus: Assessing the impact of integrating a multidisciplinary allied-health team (MDT) into a community endocrinology clinic compared to an endocrinologist-only clinic without the multidisciplinary support
- Conducted data analysis using exploratory data analysis (EDA), Welch's t-test, Quasi-Poisson regression, chi-square test, and hierarchical clustering with heatmaps in R to draw scientific inferences
- Provided statistical consulting, led client meetings, prepared scientific project reports, and delivered a poster presentation
- Project accepted for a poster presentation at the Canadian Society of Endocrinology and Metabolism Conference in 2025

ACADEMIC DEVELOPMENT

Data Analysis for Life Sciences

HarvardX

Completed two online courses offered by HarvardX on edX, an online learning initiative of Harvard University

May - July 2025

- Course Titles: High-Dimensional Data Analysis & Statistical Inference and Modeling for High-throughput Experiments
- Grade: 99% ([Certificate](#)) & 98% ([Certificate](#))
- Relevant Topics: Error Rates, Statistical Modeling, Maximum Likelihood Estimate, Models for Variance, Bayes' Rule, Hierarchical Modeling, Exploratory Data Analysis, Dimension Reduction, Singular Value Decomposition, Multidimensional Scaling, Principal Component Analysis, Clustering, Classification, Batch Effects

SELECTED ACADEMIC PROJECT

The University of British Columbia (UBC) - Course Project

Vancouver, BC, Canada

Exploring Internal Attributes of Online Products and Contribution to Sales: Insights from Amazon Sales

January - April 2023

- Led a group of four to apply exploratory data analysis, PCA, and K-means clustering in Python to uncover patterns and extract factors in product pricing, ratings, and review volume on Amazon India
- Built predictive models, such as linear regression models and decision trees, to forecast sales volume and boost sales

CERTIFICATES & SKILLS

- Certificates:** Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans – TCPS 2 (2022)
- Technical Skills:** R (*Proficient*), Python (*Proficient*), MATLAB, Java, Excel, Git, Quarto, Docker, Hatch, LaTeX
- Non-Technical Skills:** Mandarin (*Native*), English (*Full professional proficiency*)