

Brigitte Yan

Data Analyst

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ABOUT ME

PROFESSIONAL EXPERIENCE

Customer Service

AllianceOne

03/2022 – 06/2022
Toronto, Canada

- **Explained interest and principal payments** to clients, clarifying loan amortization schedules and offering personalized repayment strategies.
- **Managed title and interstate transfers** for leased vehicles, ensuring accurate payment scheduling and compliance with state regulations.
- **Skills: financial literacy, client-centric service, application of company procedures, government regulations.**

Project Coordinator

Graziani + Corazza Architects Inc.

06/2019 – 03/2020
Mississauga, Canada

- **Designed buildings** in compliance with municipal bylaws and client requirements, utilizing in-depth knowledge of zoning regulations and site constraints.
- **Adjusted condominium unit plans** based on client feedback, optimizing for comfort, accessibility, and functionality.
- **Produced digital 3D models of buildings** and sites to evaluate design integration within their surroundings.
- **Skills: architectural design, zoning bylaws knowledge, accessibility design, AutoCAD, digital 3D modeling.**

Design Intern

Graziani + Corazza Architects Inc.

10/2018 – 12/2018
Mississauga, Canada

- **Designed buildings in compliance with municipal bylaws and client requirements**, modified condominium unit plans based on client feedback for optimal comfort and functionality, and created 3D models to assess design integration with surroundings.
- **Skills: architectural design, zoning bylaws knowledge, accessibility design, AutoCAD, digital 3D modeling.**

Herbarium Technician

Royal Ontario Museum

07/2017 – 08/2017
Toronto, Canada

- **Digitized over 8,000 plant specimens** with a teammate using advanced imaging techniques and meticulous metadata organization, contributing to the creation of a comprehensive public database on Canadensys [↗](#).
- **Skills: database administration, digital photography, data accuracy validation, process streamlining.**

Research Student

Royal Ontario Museum

06/2016 – 08/2016
Toronto, Canada

- **Led an extensive study with over 100 herbarium specimens**, overseeing experimental design, data collection, statistical analysis, and writing a research paper.
- **Created an open database on Morphobank** [↗](#) by employing advanced imaging techniques and meticulous metadata entry for the specimens used in the study.
- **Collaborated on a peer-reviewed paper** [↗](#) and effectively communicated research findings at the OE3C [↗](#) and Botany [↗](#) conferences.
- **Skills: data collection & analysis, experimental design, hypothesis testing, scientific communication, peer collaboration, database management, excel.**

Research Student

Royal Ontario Museum

06/2015 – 08/2015

Toronto, Canada

- **Developed an efficient batch processing method** for herbarium specimens, enabling the processing of over 200 specimens in less than a month.
- **Accurately collected data** from specimens by analyzing and applying methodologies from existing research papers.
- **Skills: experimental design, innovation, research, data collection.**

Arts & Crafts Instructor

Taylor Statten Camps

06/2014 – 08/2014


Whitney, Ontario,

Canada

- **Designed and supervised creative, sustainable projects for children** aged 5-15, ensuring adherence to plans and safety protocols while fostering a positive camp culture.
- **Skills: early childhood education, leadership, creativity, outdoor education, sustainability, teaching.**

EDUCATION

Data Science

Lighthouse Labs 

01/2023 – 03/2023

Toronto, Canada

- **Key topics:** Data Wrangling & Analysis, Data Engineering, Data Visualization, Machine Learning, LLMs, QA, Statistical Modelling, Hypothesis Tests, A/B Testing, Database Design & Management, Data Parsing, REST APIs.

UX Design


BrainStation

07/2020 – 09/2020

Toronto, Canada

- **Key skills:** Design Thinking, UX Personas, UX Research, User & Task Flows, Interaction Design, Information Architecture, User Interviews, Design Sprints, Agile Development, Prototyping, Usability Heuristics, UI Sketching.

Bachelor of Environmental Design Studies (BEDS)

Dalhousie University 

09/2016 – 04/2019

Halifax, Canada

- **Architecture Major.**
- **Relevant courses:** Building Science, Design, Professional Development.

Hon. Bachelor of Science

University of Toronto

09/2011 – 08/2016

Toronto, Canada

- **Ecology & Evolutionary Biology Specialist; Mathematics Minor.**
- **Relevant courses:** Statistics, Linear Algebra, Multivariable Calculus, Complex Variables, Intro to Computer Science, Independent Research Project.

SKILLS

Programming

Python, SQL, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Statsmodels, SciPy, SQLite, Object Oriented Programming, HTML.

Platforms

VS Code, PGAdmin4, MySQL, Jupyter, AWS, Snowflake, Tableau, Power BI, Excel, Figma, Microsoft Office 365, Google Sheets, AutoCAD.

Integrated Data & Project Management

Database Management, Storytelling with Data, Project Management, UX Design, Version Control (GIT), Customer-Centric Approach, ETL, Agile Methodologies, Task Prioritization, Strategic Planning, Relational Databases, Metadata Entry & QA.

Advanced Data Analysis & Statistical Techniques

Experimental Design, Hypothesis Testing, Data Wrangling & Visualization, PCA, Regressions, Clustering, ANOVA, Correlation, Correspondence Analysis, KPIs, Unsupervised Machine Learning, Supervised Machine Learning, LLMs, Excel Data Models, Excel Analysis Toolpak, PowerPivot.

Design

Schematic Design, Design Thinking, UX Personas, UX Research, User & Task Flows, Interaction Design, Information Architecture, User Interviews, Design Sprints, Agile Development, Prototyping, Usability Heuristics, UI Sketching, Building Footprints, Building Plans & Sections.

PROJECTS

Bank Marketing Campaign Analysis

06/2024 – 06/2024

- **Analyzed a Portuguese bank's term deposit campaigns** to uncover key insights for optimizing marketing strategies and increasing lending revenues. Presented findings in a comprehensive Excel dashboard.
- **Skills: Python, correlations, PCA, K-Means Clustering, t-test, ANOVA, bootstrapping, chi-square test, confidence interval, client profiles, excel dashboard, data visualization.**

Heart Failure Excel Analysis & Dashboard

05/2024 – 05/2024

- **Developed an Excel dashboard** presenting critical insights for ~5,000 heart failure patients, highlighting correlations between mortality rates and variables like age and lab measurements.
- **Summarized patient KPIs** to help viewers quickly grasp trends and make data-driven decisions.
- **Skills: Data analysis & visualization, inferential statistics, excel dashboard.**

E-commerce ETL & Analysis

04/2024 – 04/2024

- **Demonstrated advanced ETL skills** by refining data with PGAdmin4 and PostgreSQL, and transferring it to Snowflake for analysis, uncovering valuable business insights.
- **Showcased database design expertise** by normalizing data from CSV files into structured tables and establishing primary and foreign key relationships.
- **Skills: relational database administration, SQL, PGAdmin4, snowflake, Python, ETL.**

Biking The Bay Area

04/2024 – 04/2024

- **Analyzed bike-sharing data from the CityBikes API**, integrating location details from Foursquare and Yelp APIs.
- **Conducted data exploration and visualization** to identify key trends and provide actionable insights into usage patterns.
- **Performed regression modeling** to examine correlations between bike station attributes and proximity to points of interest, using hypothesis testing to validate findings.
- **Skills: Python, SQLite, API Querying, Data Parsing, Correlation Analysis, Data Visualization, Linear Regression, Hypothesis Testing, Correlation.**

An Analysis of Aircraft-Wildlife Strikes in the Continental U.S.

04/2024

- **Developed a Tableau dashboard** to visualize trends in FAA wildlife-aviation collision data (2000-2019) for the Continental U.S.
- **Skills:** Tableau, Python, data analysis & visualization.

COURSES

Introduction to Canadian Customs & Border Procedures

04/2024

Canadian Society of Customs Brokers

Canada

Adirondack Forest Ecology

03/2015

University of Western Ontario, SUNY-ESF

Syracuse, United States

- **Completed an independent research project**, involving experimental design, data collection, analysis, and the writing of a comprehensive research paper.

PUBLICATIONS

Niche Shifts, Hybridization, Polyploidy and Geographic Parthenogenesis in Western North American Hawthorns (*Crataegus* subg. *Sanguineae*, Rosaceae)

25/10/2021

Agronomy

<https://www.mdpi.com/2073-4395/11/11/2133>