

# Imad Ahmad

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## SKILLS

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- Python (NumPy, Pandas, TensorFlow, Matplotlib, Plotly, Seaborn)
- R (Dplyr, Mosaic, Shiny, Ggplot2, Esquisse)
- SQL (My SQL, SQL Server, Mariadb) and NoSQL (MongoDB, Neo4j)
- Relevant courses in Calculus I, II, III, Linear Algebra, Probability, and Statistics
- Amazon Web Services, Apache Spark, BigQuery, Jupyter

## EDUCATION

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**Master of Data Science and Analytics**, *University of Calgary*

Expected August 2023

**Bachelor of Science in Physiology and Psychology**, *University of British Columbia*

May 2020

## PERSONAL PROJECTS (All projects on my portfolio website at the top)

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### [CSVanalysis.com](https://csvanalysis.com)

Built and deployed a website to a custom domain ([csvanalysis.com](https://csvanalysis.com)) where users can upload a csv file and receive a preliminary analysis of the file. Utilized the **Pandas** library in **Python** perform the analysis, and the **Flask** library to handle user input and integrate with the site. Website frontend completed in **HTML/CSS**. All uploaded files are stored in a **SQL** database using **MariaDB**.

### [Airbnb Exploratory Data Analysis](#)

Performed exploratory data analysis on two datasets containing information on Airbnb listings and their reviews. Cleaned and wrangled the data using **Python** in conjunction with various libraries such as **NumPy** and **Pandas**. Visualized relationships between variables through libraries such as **Matplotlib**, **Plotly**, and **Seaborn**. Visualized geographical data using the **GEOJSON** library. Performed **Natural Language Processing** using the **nlTK** library.

### [Airbnb Statistical Analysis](#)

Performed statistical analysis using **R** on two datasets containing information on Airbnb listings and their reviews. Explored relationships between variables through a variety statistical methods and tests. Utilized multiple statistical distributions, such as the normal distribution, Poisson distribution, etc. Visualized data in R using the **ggplot** library.

### [Gender Disparity Amongst Physiology Departments](#)

Published Dec 2020

Collected data from Scopus database and analyzed if a gender disparity exists in physiology departments throughout North America. Performed analyses using **STATA**, including multiple linear regression, normality testing, etc. **Published** written paper and analysis as **First Author**.

## WORK EXPERIENCE

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### **Laboratory Technical Assistant**, *LifeLabs*

Aug 2021 – Apr 2022

- Entered data on COVID-19 test specimens to be distributed to multiple testing facilities
- **Created database of couriers to increased efficiency of specimen shipping process**
- Performed daily data reviews to ensure accuracy

### **Intern**, *UBC Department of Family Practice*

Oct 2019 – May 2020

- Scheduled patient appointments for the clinic
- Created an immunization chart to streamline patient immunization visits
- **Created a personalized mass email system to easily notify patients on updates involving COVID-19**

### **Research Assistant**, *UBC Psychiatry (Panenka Lab)*

Sep 2018 – Sep 2019

- Enrolled patients out of hospital emergency to take part in a study on traumatic brain injuries
- Entered data into central database, and performed analysis of data for final project
- **Maintained the highest enrollment rate of all research assistants**

## PUBLICATIONS

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**Ahmad, I, Khan, N** (2020). *Sex Disparity among Faculty of Physiology in North American Academia: Differences in Scholarly Productivity and Academic Rank*