

# JULIAN DADUICA

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## OBJECTIVE

Aspiring Data Scientist with a foundation in biochemistry and molecular biology and a passion for leveraging machine learning and data-driven insights to solve complex problems and drive decision-making.

## EDUCATION

### **Master of Data Science (Expected Completion 2025)**

University of British Columbia, Vancouver, BC

Cumulative GPA of 4.02

- Focused on machine learning, data visualization, and statistics

### **Bachelor of Science in Biochemistry and Molecular Biology (Graduated 2024)**

University of Northern British Columbia, Prince George, BC

Cumulative GPA of 3.94

**Awards:** Raven Scholarship, Chemistry Award of Excellence, Beatrice J. Stanley Memorial Award, May and Ronald F. Whitcombe Memorial Scholarship, 2x UNBC In-Course Scholarship, UNBC Men's Soccer Alumni Award, 4x USports Academic All Canadian, Golden Key International Honor Society

## RELEVANT PROJECTS

### **Online Shoppers Purchasing Intention Prediction (GitHub: UBC-MDS/Online-Shoppers-Purchasing-Intention-Prediction)**

- Developed a predictive model to analyze online shoppers' purchasing behavior using a logistic regression machine learning algorithm
- Built end-to-end pipelines for data preprocessing, model training, and evaluation using Python
- Created visualizations to present findings and insights
- Implemented Docker Environment

### **Credit Card Default Classifier (GitHub: UBC-MDS/Credit-Card-Classifer-Project)**

- Built machine learning pipelines for credit default prediction using XGBoost and achieved 0.535 F1-score through hyperparameter tuning.
- Engineered features to improve model performance and compared results across multiple classifiers (logistic regression, random forests, and boosted trees).

### **Bioinformatics Study on Assessing Microbial Community Change**

- Assessed the role of soil bacterial and fungal communities in managed forests of the Pacific Northwest.
- Processed bacterial and fungal DNA data obtained from the Aspen thinning trial.
- Performed statistical analyses on the DNA data to determine the impact of forest management practices.
- Summarized results in a scientific report and discussed findings relative to existing literature.

## **TECHNICAL SKILLS**

- Programming Languages: Python, R, SQL
- Data Analysis Tools: Pandas, Numpy, Excel, Tableau, Power BI
- Machine Learning Frameworks: TensorFlow, Scikit-learn, PyTorch
- Database Management: SQL, MySQL, PostgreSQL, MongoDB
- Version Control: Git, GitHub

## **EXPERIENCE**

### **Laboratory Biochemist (October 2023 – August 2024)**

Natural Resources Canada CanmetMINING, Prince George, BC

- Optimize DNA extraction procedure and completed DNA extraction for peat samples exposed to mine dust.
- Performed screening PCRs for peat samples.
- Submit extracted DNAs for sequencing and provide raw sequence data.

### **Arena Maintenance Worker (October 2022 - Present)**

City of Prince George, Prince George, BC

- Worked in a team-oriented environment to complete daily tasks and long-term projects efficiently
- Collaborated with supervisors and provided progress reports to foremen, ensuring smooth operations and maintenance scheduling
- Opening and closing buildings independently while operating multiple rinks ice maintenance.

### **Sales Associate & Cashier (October 2018 – February 2024)**

Sportchek, Prince George, BC

- Worked in team environments to help interact with customers, organization while keeping the store stocked and tidy, and experience in handling money quickly and efficiently as a cashier.

## VOLUNTEER & EXTRACURRICULAR

### **Varsity Athlete – UNBC Men’s Soccer (2019 – 2024)**

- Demonstrated discipline, teamwork, and time management by balancing academic and athletic schedules.
- Competed in USports, the highest level of university sports in Canada
- Leadership role within the team, collaborated closely with coaches and teammates for best team experience.

### **UBC Data Science Club – Marketing Coordinator (2024 – Present)**

- Developed and executed marketing strategies to promote club events and activities.
- Managed social media campaigns to increase engagement and outreach.
- Designed promotional content using tools like Canva and Photoshop.

### **Timberwolves Student Athlete Society (2019 – 2024)**

- Marketing events for social media
- Running events for the UNBC Athletics Department
- Raise money for our MVP of the month, which involves raising money and awareness for their medical treatments
- Run Movember campaigns to raise money for men’s mental health and prostate cancer, every month of November through bottle drives, door-to-door campaigns, or running throughout month

### **YMCA Cardiac and Pulmonary Rehabilitation Program (2023 - 2024)**

- Helping patients with cardiac and pulmonary improve their symptoms, improve their quality of life, and reduce the risk of COPD, reduce the risk of another cardiac event, and improve their overall health

### **Westwood Church (2014 – 2023)**

- Run sports camps at my local church.
- Leader in running the Summer Sports Camps, individually leading groups of children through day-to-day activities

## REFERENCES

- Available upon request