

Ahmad Jalil

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EXPERIENCE

Northern Analytical Laboratory Services

November 2020 – Present

Research Assistant | September 2022 – Present

Prince George, BC

- Work both independently and in a team in a laboratory environment, performing tasks that involve collection and processing of samples using various instruments while maintaining and calibrating them
- Revamped invoicing system to automate payment tracking processes, reducing customer inquiries and improving overall customer satisfaction
- Streamlined and optimized laboratory workflow by implementing new methods and protocols, resulting in an increase in sample processing efficiency
- Authored and disseminated scientific papers and reports, contributing to the lab's knowledge base

Student Research Assistant | November 2020 – September 2022

Prince George, BC

- Organize, review, and correct research data, creating illustrative graphs and charts for reports
- Process data using statistical software including Excel, Prism, and Rstudio, to facilitate thorough data analysis
- Apply graphic design skills (Photoshop, Illustrator, InDesign) to create various materials for the Northern Analytical Laboratory Services

Relentless Pursuit Ventures

May 2024 – August 2024

Health Technology Research Analyst (Intern)

Remote

- Conducted comprehensive research on health technology innovations for seniors in rural and remote communities across Canada
- Identified and analyzed key stakeholders in the age-tech and healthcare sectors, including government agencies, healthcare providers, technology companies, and advocacy groups

Northern Health

May 2024 – Present

Informatics Specialists | December 2024 – Present

Prince George, BC

- Led the integration and optimization of health information technologies, improving access to patient/client information and enhancing evidence-based practices across Northern Health regions
- Collaborated with clinical leaders, HIM leaders, and physicians to align healthcare systems with operational needs, while designing and maintaining health information management content
- Directed change initiatives and provided leadership in recruiting, coaching, and evaluating staff, fostering innovation and supporting the adoption of international coding standards

PICS Intern | May 2024 – December 2024

Prince George, BC

- Utilize Geographic Information Systems (GIS) software to analyze and map data relevant to public health concerns across Northern Health regions
- Created and presented comprehensive GIS-based reports to high-level decision-makers to support informed decision-making on public health concerns
- Developed a standardized database to track and analyze provincial-wide systems, enhancing data consistency and accessibility across Northern Health regions

University of Northern British Columbia

January 2024 – December 2024

Teaching Assistant

Prince George, BC

- Contributed to the creation of an online resource hub for nutrition students, providing access to lecture notes, study guides, and additional learning materials

VOLUNTEER

St. Vincent De Paul

December 2020 – Present

Service Volunteer

Prince George, BC

- Prepared and served meals to those in need, promoted community wellness, and efficiently managed the distribution of donated goods

Rural eMentoring BC

September 2020 – Present

Highschool Mentor

Remote

- Cultivated a confidential, supportive mentorship with a high school mentee, providing guidance on personal and academic challenges to foster personal and educational development

Over The Edge Newspaper Society

March 2024 – Present

Acting Editor-in-Chief

Prince George, BC

- Negotiated a printing deal with the main newsprint supplier in Prince George, securing the production of 22,000 copies per issue
- Redesigned the newspaper's logo and brand image to modernize and align with current media trends
- Conducted audience research to identify preferences and tailored content to increase engagement
- Centralized information structures to streamline communication and enhance workflow efficiency

Sparklab

September 2023 – Present

Technical Analyst

Prince George, BC

- Engage with researchers to understand their specific needs and challenges in laboratory and field environments
- Design customized solutions using CAD (Computer-Aided Design) software to address the unique requirements of various research projects

University of Northern British Columbia

September 2022 – Present

Research Ambassador

Prince George, BC

- Act as a primary liaison between students and the research community at UNBC, promoting engagement and participation in research activities
- Organize and lead informational sessions and workshops to educate students about the research process, opportunities, and the significance of research contributions

Northern Health

April 2023 – Present

Activity Volunteer

Prince George, BC

- Assist recreation therapists and engage in activities with residents at Rainbow Lodge & Gateway, a long-term care home and facilities, enhancing their daily lives and well-being
- Provide emotional support and reassurance to dementia patients, helping them feel more secure and oriented in their environment
- Deepen my understanding of patient-centered medicine through direct interactions, learning about residents' needs and perspectives

PROJECTS

Whisperdesk

2024

A powerful desktop transcription application powered by native whisper.cpp with persistent state management and real-time progress feedback

Technologies - C++, Whisper.cpp, Desktop Development

<https://github.com/ahzs645/WhisperDesk>

Aethalometer Analysis

2024

Repository script kit to process aethalometer data from micro aeth for air quality research and environmental monitoring

Technologies - Python, Data Processing, Environmental Analysis

<https://github.com/ahzs645/aethmodular>

Whisperdesk Diarization	2024
<i>Advanced Multi-Speaker Diarization Engine with cross-platform C++ implementation using PyAnnote 3.0 ONNX models</i>	
Technologies - C++, ONNX, Machine Learning, Audio Processing	
https://github.com/ahzs645/whisperdesk-diarization	
UNBC Door Sign Generator	2024
<i>A web-based tool for generating standardized door signs for the University of Northern British Columbia (UNBC)</i>	
Technologies - Web Development, Design Tools	
https://github.com/ahzs645/UNBCDoor	
Card Printer Calibration	2024
<i>Color management and calibration system specifically designed for ID card printing workflows, ensuring consistent and accurate color reproduction across different printing devices and conditions</i>	
Technologies - Color Management, Calibration Systems, Print Technology	
https://github.com/ahzs645/printercalibration	
Markdown Milker	2024
<i>Collaborative markdown editor enabling multiple users to edit markdown files together in real-time, with drag-and-drop file organization and integrated image management</i>	
Technologies - Real-time Collaboration, Markdown, Web Development	

EDUCATION

University of Northern British Columbia	Sept 2024 – Sept 2026
<i>PhD, Natural Resources and Environmental Studies</i>	
<ul style="list-style-type: none"> • Focus on air quality and environmental health 	
University of Northern British Columbia	Sept 2023 – Aug 2024
<i>M.Sc., Natural Resources and Environmental Studies</i>	
<ul style="list-style-type: none"> • Focus on air quality and environmental health • Continued to PhD 	
University of Northern British Columbia	Sept 2019 – May 2023
<i>B.HSc., Biomedical Studies (Honours)</i>	
<ul style="list-style-type: none"> • Minor: Natural Resource Planning and Operations (Forestry) • The Lieutenant Governor's Medal for Inclusion, Democracy and Reconciliation 	

PROFESSIONAL DEVELOPMENT

Digital Twins - Fundamentals, Techniques & Approaches	Mar 2024
<i>Mohawk College</i>	
Remote	
Applied Internet of Things (IoT)	May 2023
<i>British Columbia Institute of Technology</i>	
Vancouver, BC	
Building Envelope Science	June 2022
<i>Holland College</i>	
Remote	
Covid-19 Contact Tracer	Dec 2021
<i>John Hopkins University</i>	
Remote	

CERTIFICATIONS & SKILLS

Certifications: OFA Level 1; TCPS 2; Environmental Professional in Training (EPt)

Skills: Power BI; Research Skills; GIS; R Studio; Brand Identity Maps; Analytical Nature; Adobe Suite; Business Process Reengineering; SPSS; Logistics; Fluent in Arabic; Powerful Decision-Making Expertise; Grant Proposal

AWARDS

Canada Graduate Scholarships – Michael Smith Foreign Study Supplements

Jan 2025

Canadian Institutes of Health Research

The Government of Canada launched this program in 2008 to support high-calibre graduate students in building global linkages and international networks through the pursuit of exceptional research experiences at research institutions outside of Canada. By accessing international scientific research and training, CGS-MSFSS recipients will contribute to strengthening the potential for collaboration between Canadian and international universities and affiliated research institutions.

Canada Graduate Scholarships

Apr 2024

Canadian Institutes of Health Research

The Canada Graduate Scholarships is designed to enhance the research skills and training of highly qualified personnel in health, natural sciences, engineering, and social sciences. This prestigious program is jointly administered by Canada's three granting agencies CIHR, NSERC, and SSHRC, supporting students annually across all disciplines. The program selects scholars through a rigorous evaluation of their academic excellence, research potential, and personal competencies.

British Columbia Graduate Scholarship

Apr 2024

The Ministry of Advanced Education, Skills and Training

The British Columbia Graduate Scholarship supports exceptional students at public post-secondary institutions across the province, with a focus on STEM and professional fields. Valued at \$17,500 the scholarships are merit-based and aim to attract top talent who contribute significantly to their disciplines. This initiative helps reduce financial barriers and promote educational innovation in British Columbia.

Lieutenant-Governor's Medal for Inclusion, Democracy and Reconciliation

May 2023

Lieutenant Governor of British Columbia

The Lieutenant-governor's Medal for Inclusion, Democracy and Reconciliation recognizes outstanding contributions from UNBC's graduating class of over 700 students to promoting inclusion, democracy, and reconciliation within the UNBC community. The award recognizes exceptional leadership, advocacy, and commitment to creating a more inclusive and equitable campus environment.

Undergraduate Student Research Award

Apr 2023

Natural Sciences and Engineering Research Council of Canada

Natural Sciences and Engineering Research Council of Canada Undergraduate Student Research Award, awarded for outstanding research contributions in the natural sciences and engineering fields. The award recognizes exceptional research skills, creativity, and potential for future contributions to the field.

BC Northern Real Estate Board Award

Aug 2021

BC Northern Real Estate Board

The award is for recipients whose home town must be within the geographical boundaries defined by the Yukon border to the north, 70 Mile House to the south, Haida Gwaii Islands to the west, and the Alberta border to the east, including the communities of Dawson Creek, Chetwynd, and Tumbler Ridge. Meeting the criteria for good academic standing is the primary basis for selection.

Governor General's Academic Medal

July 2018

The Governor General of Canada

I was awarded the Governor General's Academic Medal in recognition of my outstanding academic achievement. This prestigious award is given to the student with the highest academic standing in their graduating class. I received this honor for achieving the highest overall average in my school, demonstrating exceptional dedication and excellence in my studies. The Governor General's Academic Medal is a national recognition of academic excellence and is highly regarded in the academic community.

PRESENTATIONS

Assessing the health impacts of particulate bound metals in downtown Prince George: A health indexing study on the differential effects of high and low dust days 2024
Cascadia Symposium on Environmental, Occupational, and Population Health 2024 Blaine, WA

Particulate Matter-Bound Metals as an Assessment of Air Pollution in the City of Prince George 2023
UNBC Research Week Prince George, BC

Heavy metals and polycyclic aromatic hydrocarbons in ambient air during episodes of springtime road dust 2021
UNBC Research Week Prince George, BC

PUBLICATIONS

Characterization of the short-term temporal variability of road dust chemical mixtures and meteorological profiles in a near-road urban site in British Columbia 2023
Journal of the Air & Waste Management Association
Eric S. Coker, Nikita Saha Turna, Mya Schouwenburg, Ahmad Jalil, Charles Bradshaw, Michael Kuo, Molly Mastel, Hossein Kazemian, Meghan Roushorne, Sarah B. Henderson
DOI: 10.1080/10962247.2023.2197970