

Mirza Ahmadi

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EDUCATION

University of Guelph

Jan 2024 - Present

Master of Science – Bioinformatics and Artificial Intelligence

Guelph, ON

- Developing a machine learning pipeline to extract and present genomic sequence data
- Relevant Skills: Machine Learning, Python, Bioinformatics, Genomics, Unix

Honours Bachelor of Science – Major in Zoology, Minor in French Studies (GPA: 3.7)

Sep 2019 – Oct 2023

- Completed a one-semester exchange program at Aberystwyth University, Wales

EXPERIENCE

Researcher

May 2022 - Present

University of Guelph

Guelph, ON

- Designed and executed an independent research report on snake venom evolution, producing a 30+ page report
- Conducted literature review & analyzed data from multiple phylogenies to investigate venom evolution mechanisms
- Collaborated with experts in bioinformatics, biochemistry, and genomic biology, enhancing scope of research
- Acquired skills in R, MS Excel, and Mesquite to create correlational and graphical analyses, and phylogenies
- Currently working towards publication in a peer-reviewed scientific journal

Globalink Mentor

April 2022 – Nov 2022

University of Guelph

Guelph, ON

- Developed info packages on government regulations and Canadian banking for seven international research interns
- Led coordination of social events to foster intern networking and community-building
- Provided ongoing logistical support, addressing individual needs, and resolving issues promptly

Data Entry Clerk

May 2021 – Jan 2022

MSH International

Toronto, ON

- Performed quantitative analysis using MS Office to generate client reports
- Managed administrative duties including communicating with clients and providers via email

PROGRAMMING PROJECTS

[Venom Type Classifier](#) | [Video Demo](#) | *Python*

March 2024

- Developed a classifier to predict venom types in snake species based solely on venom protein proportions
- Utilized 'scikit-learn', 'matplotlib' and 'pandas' to build a support vector machine classifier and visualize PCA data

[Shopping Intent Predictor](#) | *Python*

March 2024

- Created a classifier to predict online shoppers' purchasing intent using website data from 12,000 user sessions
- Leveraged the Python library 'scikit-learn' to create a k-nearest-neighbor supervised learning classifier

[SciRef](#) | [Video Demo](#) | *Python, Tailwind CSS, React, Flask*

Aug 2024

- Constructed a website which generates customized scientific references for PubMed journal articles
- Enables users to input URLs and order reference components to obtain accurately formatted references

CERTIFICATIONS

[E-learning Course: Data Structures](#)

Oct 2023

[LinkedIn Learning certificate: Python Essential Training](#)

June 2023

[Harvard CS50 Introduction to Programming with Python](#)

Jan 2023

DELF (Diploma in French Language Studies) B2

Feb 2019

TECHNICAL SKILLS

Python (Advanced)

R (Advanced)

MS Office (Advanced)

HTML (Intermediate)

CSS (Intermediate)