

# Mirza Ahmadi

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As an undergraduate student with both academic and professional experience, I am passionate and hardworking. I am skilled in conducting scientific research, scientific writing, and communication, and I have self-educated in multiple programming languages. I am eager to contribute to the growing field of bioinformatics and biotechnology and bring my experience, drive, and enthusiasm to the table.

## Education

- Sep. 2019 - **B. Sc. Zoology, Minor in French Studies**  
Present University of Guelph, *Guelph, ON*  
• GPA: 3.9/4.0
- Jan. 2023 - **B. Sc. Zoology, Minor in French Studies**  
June 2023 Aberystwyth University, *Aberystwyth, Wales*
- July 2019 - **Explore French Program**  
Aug. 2019 Cégep de Jonquière, *Jonquière, QC*  
• Attained a thorough French education by completing written essays, multiple exams, and active participation in oral seminars as part of an immersive French language program

## Certifications

- June 2023 **LinkedIn Learning certificate: Python Essential Training**
- Jan. 2023 **Harvard's CS50 Introduction to Programming with Python Certificate**
- Feb. 2019 **DELFL (Diploma in French Language Studies) B2 Certification**

## Skills

**Python** (Advanced)  
**R** (Intermediate)  
**HTML** (Intermediate)  
**CSS** (Intermediate)  
**JavaScript** (Beginner)  
**Mesquite** (Intermediate)  
**Microsoft Excel** (Advanced)

## Programming Projects

- July 2023 **Colour Chaos!** | *Python*  
• Designed and programmed a GUI-based game that challenges players to type the colours of words displayed as quickly as possible, with the goal of completing ten words in the shortest amount of time possible  
• Leveraged the pygame library to create an interactive interface, enabling features such as tracking and displaying high scores, restarting the game, and real-time timekeeping, enhancing user engagement
- June 2023 **Personal Website** | *HTML, CSS, JavaScript*  
• Developed a personal website to showcase my portfolio, which adheres to responsive web design, ensuring compatibility across all devices  
• The website showcases links to my CV, LinkedIn profile, and programming projects
- Jan. 2023 **Scientific Reference Customizer** | *Python*  
• Programmed a terminal application that generates customized scientific references for PubMed journal articles, simplifying the citation formatting process  
• Enables users to input URLs, define reference component order, and receive formatted references, thereby enhancing academic citation accuracy

## Professional Experience

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- May 2022 - **Undergraduate Researcher**  
Present University of Guelph, *Guelph, ON*
- Independently designed and executed a research project focused on snake venom evolution
  - Conducted a thorough literature review, communicated with experts in the field, and analyzed data from multiple phylogenies to investigate the mechanisms driving venom evolution
  - Collected genome sequences of venomous and nonvenomous snakes through extensive literature review and GenBank database exploration for subsequent analysis
  - Collaborated with professors across diverse fields, including bioinformatics, genomic biology, and cell and molecular biology by delivering compelling proposal presentations that highlighted potential areas of synergy and collaboration, enhancing the scope of the research
  - Acquired proficient skills in bioinformatics, mastering the utilization of R programming language to perform rigorous correlation analyses on the collected dataset
  - Leveraged MS Excel and Mesquite alongside R to create a suite of sophisticated graphical analyses, enhancing the interpretability of the research findings
  - Produced a comprehensive 30+ page scientific report with the ongoing objective of refining it for submission to a peer-reviewed scientific journal
- April 2022 - **Globalink Mentor**  
Nov. 2022 University of Guelph, *Guelph, ON*
- Developed and distributed information packages related to transportation, federal government regulations, and Canadian banking for seven international research interns conducting their research at the University of Guelph
  - Demonstrated leadership skills by coordinating and arranging multiple social events to facilitate networking and community-building among the interns
  - Provided continuous logistical assistance and promptly resolved any issues that arose while adapting to the needs of each individual
- May 2021 - **Data Entry Clerk**  
Jan. 2022 MSH International, *Toronto, ON*
- Conducted data analysis and uploaded information from scanned records into the company's database
  - Generated and Organized reports using MS Excel
  - Managed administrative duties including communicating with clients and providers via email
- July 2020 - **Guest Operations Employee**  
Sept. 2020 Toronto Zoo, *Toronto, ON*
- Managed guest flow and enforced Covid-19 protocols at the zoo while also sanitizing frequently touched surfaces

## Volunteer Experience

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- Feb. 2017 - **French Tutor**  
June 2017 RG Education Centre, *Toronto, ON*
- Instructed and evaluated elementary school children in French language comprehension, writing, and oral communication skills
- Oct. 2016 - **Therapeutic pool Lifeguard**  
June 2017 Holland Bloorview Kids Rehabilitation Centre, *Toronto, ON*
- Demonstrated excellent interpersonal and communication skills while working with special needs children in a therapeutic pool setting
  - Completed comprehensive safety training related to pool operations, including knowledge of safety measures both in and out of the pool.