

Arvin Zaker

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EDUCATION

University of Ottawa <i>Honours Bachelor of Science (H.BSc) in Translational and Molecular Medicine (CGPA: 9.96/10)</i>	Sep 2019 - Present Ottawa, ON
Cardiff Sixth Form College <i>General Certificate of Education Advanced Subsidiary Level (Avg: 100%)</i>	Sep 2018 - Jun 2019 Cardiff, UK
Allameh Helli 3 Exceptional Talent School <i>Iranian High School certificate (Avg: 19.75/20)</i>	Sep 2015 - May 2018 Tehran, IR

AWARDS & ACHIEVEMENTS

UROP Scholarship , University of Ottawa (\$1000)	Dec 2020 - Apr 2021
Merit Scholarship , University of Ottawa (\$1000 per term)	Sep 2020 - Present
Admission Scholarship , University of Ottawa (\$3000)	Sep 2019 - Apr 2020
Dean's Honour List , University of Ottawa (awarded each term)	Sep 2019 - Present
Academic Excellence Scholarship , Cardiff Sixth Form College (\$14000)	Sep 2018 - Jun 2019

POSTERS & PRESENTATIONS

Seminar Presentation "Analysis of Drug Response in Patient-Derived Xenograph" <i>Faculty of Medicine, University of Ottawa</i>	Apr 2022 Ottawa, ON
Poster and Presentation "Analysis of Drug Response in Patient-Derived Xenograph" <i>Faculty of Medicine, University of Ottawa</i>	Feb 2022 Ottawa, ON
Poster and Presentation "Discovery and Characterization of Bacteriophage Arzan" <i>Faculty of Medicine, University of Ottawa</i>	Dec 2021 Ottawa, ON
Poster "Role of Adenosine Receptors on mice skeletal muscle fatigue kinetics" <i>Faculty of Medicine, University of Ottawa</i>	Apr 2021 Ottawa, ON
Poster "Insulin Pump Belt Manufacturing" <i>Allameh Helli 3 Exceptional Talent School</i>	May 2018 Tehran, IR
Poster "Jack-knife Construction Crane Optimization" <i>Allameh Helli 3 Exceptional Talent School</i>	May 2017 Tehran, IR

SKILLS

- **Programming languages:** R, Python
- **Software:** ImageJ, Imiris, Microsoft Office Suite
- **Operating systems:** Linux, Windows
- **Lab techniques:** Cell-based assays, environmental sampling, phage extraction and amplification, fluorescent staining and imaging, electrophysiological recordings, PCR, western blot
- **Languages:** English, Persian
- Hardware assembly and troubleshooting

RESEARCH EXPERIENCE

Summer student - TST program <i>University of Ottawa</i>	May 2021 - Present Ottawa, ON
<ul style="list-style-type: none">• Supervisor: Dr. Arvind Mer• Developing computation tools for analyzing drug response of immunodeficient mice• Performing survival analysis of novel DNA repair complexes• Investigating the link between cancer gene biomarkers and drug response	

Undergraduate Trainee - Laboratory rotations <i>University of Ottawa</i> <ul style="list-style-type: none"> • Supervisor: Dr. Arvind Mer • Utilized the R programming language in genomic data analysis • Optimized programs analysis of large datasets • Investigated the link between cancer gene biomarkers and drug response 	January 2021 - April 2021 Ottawa, ON
Undergraduate Trainee - SEA-PHAGES program <i>University of Ottawa</i> <ul style="list-style-type: none"> • Supervisor: Dr. Adam Rudner • Performed environmental sampling and phage extraction techniques • Utilized cell-based assays for characterization of the phage • Performed DNA extraction and genomic analysis via gel electrophoresis • Used Python and ImageJ to analyze the restriction digest pattern of phages 	Sep 2021 - Dec 2021 Ottawa, ON
Research Assistant - UROP program <i>University of Ottawa</i> <ul style="list-style-type: none"> • Supervisor: Dr. Jean-Marc Renaud • Designing experiments and setting up research equipment for data collection • Performing experiments on mouse muscles using electrophysiological equipment • Performing antibody staining, fluorescent imaging, and analysis of muscle tissue in the Imiris program 	Nov 2020 - Present Ottawa, ON

WORK EXPERIENCE

Family Visitor and Program Assistant (Volunteer) <i>Garry J Armstrong Long Term Care Centre</i> <ul style="list-style-type: none"> • Communicated effectively with residents • Aided residents to perform group activities • Channeled residents' questions to the nursing staff 	Feb 2020 - May 2020 Ottawa, ON
Stock Manager and Coordinator (Volunteer) <i>Scope Charity Shop</i> <ul style="list-style-type: none"> • Communicated with a team of volunteers and employees • Created accounting records to manage incoming donations • Priced items during sales events • Rearranged store merchandise to ensure customer satisfaction 	Sep 2018 - Jun 2019 Cardiff, UK
Sales Associate (Volunteer) <i>Tenovus Cancer Care Charity Shop</i> <ul style="list-style-type: none"> • Coordinated with a team of volunteers • Managed sales and provided excellent customer service • Aided in designing marketing campaigns to promote the store's merchandise • Tracked customer donations and returns 	Sep 2018 - Jun 2019 Cardiff, UK

VOLUNTEER EXPERIENCE

Lets Talk Science Presenter <i>University of Ottawa</i>	Jan 2021 - Present Ottawa, ON
Founder of the University of Ottawa Canadians Sharing Locally and Globally <i>University of Ottawa Canadians Sharing Locally and Globally</i>	Dec 2020 - Present Ottawa, ON
Volunteer Coordinator at Best Buddies club <i>Best Buddies club</i>	September 2020 - Present Ottawa, ON
Founder and Coordinator of Hands on Health Magazine <i>Interprofessional Health Association (IPHA) club</i>	Jun 2020 - Present Ottawa, ON
Childcare work experience <i>Cylch Meithrin Trelai Child Care Center</i>	April 2019 Cardiff, UK
Fundraising event participant <i>Allameh Helli 3 High School</i>	Jan 2016 Tehran, IR