**Arvin Zaker**

**University of Ottawa** Sep 2019 - Present *Honours Bachelor of Science (H.BSc) in Translational and Molecular Medicine (CGPA: 9.96/10) Ottawa, ON*

**Cardiff Sixth Form College** Sep 2018 - Jun 2019 *General Certificate of Education Advanced Subsidiary Level (Avg: 100%) Cardiff, UK*

**Allameh Helli 3 Exceptional Talent School** Sep 2015 - May 2018 *Iranian High School certificate (Avg: 19.75/20) Tehran, IR*

**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

**Seminar Presentation “Analysis of Drug Response in Patient-Derived Xenograph”** Apr 2022 *Faculty of Medicine, University of Ottawa Ottawa, ON*

**Poster and Presentation “Analysis of Drug Response in Patient-Derived Xenograph”** Feb 2022 *Faculty of Medicine, University of Ottawa Ottawa, ON*

**Poster and Presentation “Discovery and Characterization of Bacteriophage Arzan”** Dec 2021 *Faculty of Medicine, University of Ottawa Ottawa, ON*

**Poster “Role of Adenosine Receptors on mice skeletal muscle fatigue kinetics”** Apr 2021 *Faculty of Medicine, University of Ottawa Ottawa, ON*

**Poster “Insulin Pump Belt Manufacturing”** May 2018 *Allameh Helli 3 Exceptional Talent School Tehran, IR*

**Poster “Jack-knife Construction Crane Optimization”** May 2017 *Allameh Helli 3 Exceptional Talent School Tehran, IR*

* **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

**Summer student - TST program** May 2021 - Present *University of Ottawa Ottawa, ON*

* Supervisor: Dr. Arvind Mer
* Developing computation tools for analyzing drug response of immunodeficient mice
* Performing survival analysis of novel DNA repailr complexes
* Investigating the link between cancer gene biomarkers and drug response

**Undergraduate Trainee - Laboratory rotations** January 2021 - April 2021 *University of Ottawa Ottawa, ON*

* 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

**Undergraduate Trainee - SEA-PHAGES program** Sep 2021 - Dec 2021 *University of Ottawa Ottawa, ON*

* 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

**Research Assistant - UROP program** Nov 2020 - Present *University of Ottawa Ottawa, ON*

* 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

**Family Visitor and Program Assistant (Volunteer)** Feb 2020 - May 2020 *Garry J Armstrong Long Term Care Centre Ottawa, ON*

* Communicated effectively with residents
* Aided residents to perform group activities
* Channeled residents’ questions to the nursing staff

**Stock Manager and Coordinator (Volunteer)** Sep 2018 - Jun 2019 *Scope Charity Shop Cardiff, UK*

* 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

**Sales Associate (Volunteer)** Sep 2018 - Jun 2019 *Tenovus Cancer Care Charity Shop Cardiff, UK*

* 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

**Lets Talk Science Presenter** Jan 2021 - Present *University of Ottawa Ottawa, ON*

**Founder of the University of Ottawa Canadians Sharing Locally and Globally** Dec 2020 - Present *University of Ottawa Canadians Sharing Locally and Globally Ottawa, ON*

**Volunteer Coordinator at Best Buddies club** Sepember 2020 - Present *Best Buddies club Ottawa, ON*

**Founder and Coordinator of Hands on Health Magazine** Jun 2020 - Present *Interprofessional Health Association (IPHA) club Ottawa, ON*

**Childcare work experience** April 2019 *Cylch Meithrin Trelai Child Care Center Cardiff, UK*

**Fundraising event participant** Jan 2016 *Allameh Helli 3 High School Tehran, IR*