

Pedrum Mohammadi-Shemirani

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Profile

- Proficiency with statistical analysis, machine learning, and data visualization in Excel and R
- Experience writing business plans and market reports for eHealth and tech startups
- Demonstrated ability communicating scientific information to a range of stakeholders
- Fluent in English and Farsi; working knowledge of French

Education

PhD Medical Sciences – Cancer and Genetics

September 2016 – present

McMaster University, Hamilton, Canada

- Thesis: Prediction of cardiometabolic diseases and traits using genetic variants
(*PI: Dr. Guillaume Paré*)
- GPA: 3.95/4.0
- Relevant courses: Statistical methods in health sciences research; Genetic epidemiology and statistics

BSc Clinical Biochemistry

September 2011 – 2015

Western University, London, Canada

- Thesis: Characterization of wild-type and mutant vinculin- α -catenin protein complexes (*PI: Dr. Eric Ball*)
- GPA: 3.65/4.0

Experience

Business Intern

January – April 2018

Arinai Inc., Hamilton, Canada

- Performed market research and competitive analysis for machine translation services in North America
- Drafted executive summary and commercialization plans for startup competition

Research Assistant

September 2015 –

Population Health Research Institute, Hamilton, Canada

August 2016

- Developed a bioinformatic pipeline to identify diagnostic biomarkers of diseases
- Visualized and ran statistical tests (e.g. regression and survival analyses) using R, Unix and Excel
- Data were on the order of millions of genetic variants and protein biomarkers across ~5000 individuals

Teaching Assistant (Human Biochemistry I) *January 2018 – present*
McMaster University, Hamilton, Canada *January – April 2017*

- Reviewed biochemistry concepts with nursing students during weekly tutorials
- Marked and invigilated administration of quizzes for 200 students
- Chosen by instructor to return for a second term due to excellent performance

Summer Research Assistant *May – August 2014*
Western University, Hamilton, Canada

- Developed hands-on knowledge of basic molecular biology and protein biochemistry techniques
- Presented results in oral and poster formats to students and faculty

Extracurricular Activities

Family Room Attendant *December 2015 – 2017*
Ronald McDonald House Charities, Hamilton, Canada

- Volunteered over 300 hours with children and their families at McMaster University children's hospital

Western Biochemistry Club (Vice-President) *September 2013 – April 2015*
Western University, London, Canada

- Elected to be vice-president by club's executive team
- Organized academic and social events for biochemistry student body
- Managed club finances and funding from faculty

Let's Talk Science (Volunteer) *September 2014 – April 2015*
Western University, London, Canada

- Co-led a group of students on monthly volunteering trips
- Created interactive activities to teach young children about science literacy at local fairs and public events

Accomplishments

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| ➤ Health Sciences Outstanding Achievement Award, McMaster University | <i>May 2018</i> |
| ➤ Synapse Life Science Competition (Finalist) | <i>March 2018</i> |
| ➤ 3 Minute Thesis Competition, McMaster University | <i>March 2017</i> |
| ➤ Teaching and Learning Foundations Certificate, McMaster University | <i>January 2017</i> |
| ➤ Graduate Scholarship, McMaster University | <i>September 2016 – present</i> |
| ➤ Dean's Honor List, Western University | <i>2011 – 2015</i> |