

## NAME AND AFFILIATION

**Pedrum Mohammadi-Shemirani**, PhD candidate  
McMaster University, Department of Medical Sciences

## WORK EXPERIENCE

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|----------------------|---|
| January – April 2018 | ARINAI INC.<br>Intern <ul style="list-style-type: none"><li>Helped develop business plan for a startup applying deep learning to language translation</li></ul>   |
| January – April 2017 | POPULATION HEALTH RESEARCH INSTITUTE<br>Graduate Research Assistant <ul style="list-style-type: none"><li>Used Bionano Genomics platform to identify genetic structural variation responsible for rare diseases in humans</li></ul> |
| September 2015 – 16  | POPULATION HEALTH RESEARCH INSTITUTE<br>Volunteer Research Assistant <ul style="list-style-type: none"><li>Created bioinformatics pipeline for Mendelian randomization analysis using R and shell scripting</li></ul>               |

## ACADEMIC AND TRAINING BACKGROUND

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|----------------|---|
| 2016 – present | MCMASTER UNIVERSITY<br>PhD Medical Sciences – Cancer and Genetics ( <i>transferred in May 2018</i> )<br>Thesis: “Prediction of cardiometabolic diseases using genetic and molecular data”<br>PI: Dr. Guillaume Paré |
| 2011 – 2015    | WESTERN UNIVERSITY<br>BMSc Clinical Biochemistry<br>Thesis: “Characterization of wild-type and mutant vinculin- $\alpha$ -catenin protein complexes”<br>PI: Dr. Eric H. Ball  |

## TEACHING EXPERIENCE

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|----------------------|---|
| January – April 2018 | MCMASTER UNIVERSITY<br>Graduate Teaching Assistant<br>HTHSCI 2K03 – “Inquiry II: Cell Biology”  |
| January – April 2018 | MCMASTER UNIVERSITY<br>Graduate Teaching Assistant<br>HTHSCI 1LL3 – “Human Biochemistry I”  |
| January 18, 2018     | CANADIAN SOCIETY FOR EPIDEMIOLOGY AND BIOSTATISTICS (MCMASTER)<br>Workshop Leader<br>Health Research Skills Workshop – “Interpreting data in health sciences” |

January – April 2017     MCMASTER UNIVERSITY  
Graduate Teaching Assistant  
HTHSCI 1LL3 – “Human Biochemistry I”

### **SELECTED ACCOMPLISHMENT AND HONOURS**

2017             Teaching and Learning Foundations Certificate, McMaster University  
2016 – 2017     Graduate Scholarship, McMaster University  
2011 – 2015     Dean’s Honor List, Western University  
2011             Entrance Scholarship, Western University

### **SELECTED PEER-REVIEWED PUBLICATIONS**

\* Indicates primary author

1. Mohammadi-Shemirani P\*, Sjaarda J, Gerstein HC, Treleaven DJ, Walsh M, Mann JF, Hess S, Paré G. Serum trefoil factor 3 as a biomarker for early kidney dysfunction and incident chronic kidney disease in individuals with dysglycemia. (*in preparation*)

### **SELECTED CONFERENCE ABSTRACTS**

1. Mohammadi-Shemirani P, Chong M, Sjaarda J, Gerstein HC, Hess S, Paré G. Effect of free testosterone levels on cardiovascular outcomes: a Mendelian randomization analysis. (*poster presentation at 2018 European Society of Cardiology Congress*)

### **SELECTED PRESENTATIONS**

1. Mohammadi-Shemirani P, Sjaarda J, Gerstein HC, Treleaven DJ, Walsh M, Mann JF, Hess S, Paré G. Identification of diagnostic biomarkers for CKD in dysglycemia: a Mendelian randomization analysis. *Oral presentation at the Thrombosis and Atherosclerosis Research Institute Graduate Seminar Series, Hamilton, Canada. October 2017.*

### **RELEVANT SKILLS**

- Proficiency with R, Shell, and Excel
- Familiarity with Python (e.g. Pandas, Numpy, Scipy, Scikit-learn), MATLAB, and SQL