

# BRINDA VENKATARAMANI

brindavenkataramani05@gmail.com

(647)-469-0267

## EDUCATION

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### McMaster University

September 2019 - present

M.Sc. Honors in Mathematics

*Project: Independence Proofs of the GCH in ZFC and Other Frameworks (in progress)*

*Relevant coursework: model theory, analysis, measure theory, set theory, topology*

*GPA: 3.93*

### McMaster University

September 2014 - June 2019

B.Sc. Honors in Mathematics and Statistics

Minor in Physics

*Relevant coursework: logic, groups and rings, Galois theory, analysis, topology, algebra*

*GPA (over final two years of study): 3.70*

### University of Toronto

May 2016 - April 2017

Visiting Student

### Victoria Park Collegiate Institute

September 2010 - June 2014

OSSD and IB Diploma Recipient

## SKILLS

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### Computer Languages

Python, C/C++, Java, MATLAB

### Software & Tools

LaTeX, HTML/CSS, Bootstrap, Maple, Markdown

## EXPERIENCE

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### McMaster University - Department of Mathematics

September 2019 - present

*Teaching Assistant and Marker*

- Prepared written solutions for second year calculus courses.
- Assisted students having difficulties in a freshmen proof-based calculus course during office hours.
- Marked tests and exams for second year courses, including linear algebra and vector calculus.

### McMaster University - Department of Mathematics

May 2019 - August 2019

*Undergraduate Researcher*

- Studied literature pertaining to topological properties of o-minimal structures.
- Attempted to formulate a conjecture to an open problem in the field.
- Funded by a departmental James Stewart Student Research Award (JSSRA), awarded for academic excellence in mathematics.

### Tata Consultancy Services (TCS)

May 2017 - August 2017

*Developer*

- Developed a patch for Microsoft SharePoint on Blackberry client to improve workflow automation.
- Automated data entry across Excel workbooks using macros and Visual Basic scripting.
- Worked on development of an application to assess risk of clients applying for mortgages.

### Canadian Imperial Bank of Commerce (CIBC)

May 2015 - August 2015

*Business Systems Analyst*

- Used Microsoft Visio to document workflows prior to server migration.
- Captured and documented data structures transmitted during workflow using XML.

## **VOLUNTEER EXPERIENCE**

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### **Alliance for South Asian AIDS Prevention (ASAAP)**

April 2010 - Present

#### *Volunteer*

- Set-up and clean-up for events
- Designed promotional media for events, including event invitations and posters, using Adobe Photoshop.
- Automated timesheet entry in Excel.

### **Peer Tutoring @ VPCI**

September 2013 - April 2014

#### *Volunteer*

- Taught students between grades 9 and 11 mathematics and science after school.

## **AWARDS AND HONORS**

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### **James Stewart Student Research Award (JSSRA)**

May 2019

## **INTERESTS**

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- Mathematics and mathematics education
- Machine learning and AI