

# Maria José Solano

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## EDUCATION

### **B.Sc.: Mathematics and Computer Science, First Class Honours**

*McGill University - Montréal, Canada*

*Sep 2017 - Dec 2021*

- Awards: James McGill entrance scholarship, Dr. Brian C. Smith Prize, Faculty of Science Scholarship, Women Associates Of McGill Scholarship, Dean's Honour List prize.
- GPA: 3.87 / 4.0

### **Bachillerato Colombiano (High School Diploma)**

*Gimnasio Portales - Bogotá, Colombia*

*Jun 2017*

- Recipient of the Portales Profile and Academic Excellence graduation awards.
- Situated in the 100th percentile of the ICFES examination.

## TEACHING AND RESEARCH

### **Teaching Assistant (TA)**

*McGill University - Montréal, Canada*

*Jan 2019 - Dec 2021*

Holds office hours, manages tutorial/practice sessions, invigilates midterm and final examinations, among other tasks.

- Courses: Foundations of programming (COMP202), Introduction to computer science (COMP250), Introduction to Software Systems (COMP206)
- Recipient of the Computer Science Teaching Assistant award for winter 2021

### **FUSRIP Participant**

*Fields Institute - Toronto, Canada*

*Jul 2019 - Aug 2019*

Involved in the research of similarity measures to analyze mood symptom time series data, focusing on characterizing how time series of major depression and bipolar disorder symptoms cluster. The results were published in the [Journal of Affective Disorders](#).

- Part of the Fields Undergraduate Summer Research Program (FUSRIP)
- Supervisor: Dr. David Kreindler

### **Research Assistant**

*McGill University - Montréal, Canada*

*May 2020 - September 2020*

Explored bisimulation metrics for reinforcement learning, building on MDPs (Markov decision processes), estimating the new metrics from offline samples, and using methods of real analysis and probability.

- Supervisor: Prakash Panangaden
- Sponsored by Joelle Pineau (NSERC research award)

## WORK EXPERIENCE

### **Software engineer II**

*Microsoft - Vancouver, Canada*

*Feb 2022 - Present*

Engineer at the Developer's Division, writing tools for JavaScript and TypeScript development.

### **Software engineering intern (Windows)**

*Microsoft - Montréal, QC*

*Jun 2021 - Aug 2021*

Implementer of a web component that previews a progressive web app on different platforms based on their web manifest. The tool was incorporated to the [PWABuilder website](#), and is also available as an open-source project. In addition, also delivered a [Windows 11 simulator](#) that reproduces the experience of such websites on the new operating system.

**Summer intern (environment, health and safety department)**

*Kruger Inc. - Montréal, Canada*

*Jul 2018 - Aug 2018*

Responsible for the data analysis from several surveys, as well as collaborating in minor department projects (creation of data banks, translation of documents).

**References**

Available upon request.