

# Mark Asuncion

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## EDUCATION

### University of Toronto

*Honours Bachelor of Science in Applied Statistics, Minor in Mathematics*

Mississauga, ON

Sep. 2019 – May 2023

- Cumulative GPA - 3.89/4.00
- Achieved Dean's Honours List throughout all semesters enrolled
- Relevant Coursework: Probability & Statistics, Data Structures & Algorithms, Discrete Mathematics
- Extracurriculars & Societies: Intramural Basketball, UTMSAM, UTMCCSSC

## EXPERIENCE

### Undergraduate Research Assistant

*University of Toronto*

May 2021 – Present

Mississauga, ON

- **1 of 2** research positions awarded by NSERC to students in the Mathematics and Computational Sciences department with **outstanding** academic records
- Responsible for the simulation of various algorithms and goodness-of-fit tests, coded in **R**
- Conducted literature review over multiple academic papers and contributed findings to the final publication of the research

### Lead Instructor

*Mathnasium*

Dec. 2018 – Present

Meadowvale, ON

- Mentored students from ages 5 to 18 towards academic success by teaching them through curated learning plans
- Facilitated the **"team-teaching"** methodology amongst other instructors
- Built a web application that increased instructor punctuality by **11%**

### General Associate

*Panera Bread Co.*

Aug 2016 – July 2019

Oakville, ON

- Handled customer inquiries and co-ordinated catering orders for large events

## PROJECTS

### Statistical Analysis | *R, ggplot*

Jan. 2021 – Apr. 2021

- Performed an analysis within a team of 4 other students on fast food chains and nutritional values as part of the cumulative project for STA258: Statistics with Applied Probability
- Created meaningful plots of the data using libraries like **ggplot** and rendered out the report using **R Markdown**
- Ran different **hypothesis tests** to form statistical inferences about the restaurants

### Instructor Dashboard | *Python, Flask, Selenium, BeautifulSoup4, Heroku, Git* [mathstudent-tracker.herokuapp.com](https://mathstudent-tracker.herokuapp.com)

June 2020 – Dec. 2020

- Developed a full-stack web application with **CRUD** functionality using **Python** and **Flask**, deployed on **Heroku**
- Created a web scraper connected to a dashboard to help resolve instructor tardiness that displays all active students and their relevant information to employees in real-time
- The scraper was built using **automation** libraries like **Selenium** and **BeautifulSoup4**

### Digit Identifier | *Python, Keras, Matplotlib, Git*

March 2019

<https://github.com/gmasuncion/The6ixPrediction>

- Implemented a **neural network** in **Python** capable of identifying handwritten digits with **96%** accuracy
- Constructed and trained the model using **Keras** and plotted the results of each prediction using **Matplotlib**

## TECHNICAL SKILLS

**Languages:** Python, R, SQL, HTML/CSS, Java

**Developer Tools:** Git, VS Code, Jupyter Notebooks, Rstudio, PyCharm, IntelliJ, Eclipse

**Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Keras, Selenium, Bootstrap, Flask