

# Matthew Brown

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Website: <https://mattbrown-gis.github.io/>

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## EDUCATION

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### McMaster University, Hamilton, ON

Master of Science, Thesis, Geography | Graduated April 2020

- Analyzed and processed a year's worth of GPS-tracked cycling data from SoBi Hamilton to assess popular route characteristics using ArcGIS and Python
- 2018-19 recipient of Esri Canada Center of Excellence Student of the Year Award
- Placed 2<sup>nd</sup> (2019) and 3<sup>rd</sup> (2018) in the Esri Canada App Challenge

### McMaster University, Hamilton, ON

Bachelor of Science (Honours), Environmental Science (Minor in GIS) | Graduated June 2017

- Achieved a 3.7/4.0 GPA in final two academic years, Dean's Honour List: 2015, 2016, 2017
- Active member of Esri Canada Centre of Excellence Student Associates program, Geographers Without Borders, and McMaster Guitar Club

### Esri Training

- ArcGIS Pro: Essential Workflows **2019**
- Creating Python Scripts for ArcGIS **2018**
- Introduction to JavaScript **2017**

## WORK EXPERIENCE

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### McMaster University, Hamilton, ON

GIS Specialist | July 2020 – Present

- Analyzing GPS data collected from a custom smartwatch application on a technology validation team using custom Python-based GIS tools
- Creating and managing databases to store information collected from research participants

Teaching Assistant | July 2016 – April 2019

- Led interactive lab sessions for GIS courses taken by hundreds of undergraduate students
  - Guided students through assignments and explained how to effectively utilize the software

Research Assistant | May 2017 – October 2017

- Oversaw GIS-related tasks at two different research labs
  - Updated and maintained a complex street network for Hamilton, Ontario and Calgary, Alberta
  - Assisted in the creation of tools to assess walkability and coordinating research tasks

### Stewards of Cootes Watershed, Dundas, Ontario

GIS Coordinator | July 2016 – September 2016

- Created maps essential to conveying the organization's area of interest in organizing waste clean-ups

## SKILLS & INTERESTS

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- **Skills:** ArcGIS Online, ArcGIS Pro, cartography, Esri ArcGIS Desktop 10.x, Microsoft Office (Word, PowerPoint, Excel), Python (ArcPy), R for data analysis, SAS, SQL for DBMS
- **Interests:** Trying new and exotic foods, musical instruments, learning languages