

# Matthew Brown

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## EDUCATION

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### McMaster University

**Apr. 2020**

*Master of Science, Thesis, Geography*

*Hamilton, ON*

- Analyzed and processed a year's worth of GPS-tracked cycling data from SoBi Hamilton to assess popular route characteristics using ArcGIS and Python
- Developed statistical models to predict bike share traffic before and after infrastructure upgrades
- 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
- Attended Esri Canada User Conference (2016, 2017, 2018) and Esri Developer Summit (2017, 2018)

### McMaster University

**Jun. 2017**

*Bachelor of Science (Honours), Environmental Science (Minor in GIS)*

*Hamilton, ON*

- 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

**Jul. 2016 – Apr. 2019**

*Teaching Assistant*

*Hamilton, ON*

- 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
- Facilitated smooth operation of courses by assisting with marking tasks and student inquiries

### McMaster University

**May 2017 – Oct. 2017**

*Research Assistant*

*Hamilton, ON*

- 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 coordinated research tasks with a 3<sup>rd</sup> party urban planning firm and the City of Hamilton's GIS department

### Stewards of Cootes Watershed

**Jul. 2016 – Sep. 2016**

*GIS Coordinator*

*Dundas, ON*

- Created maps essential to conveying the organization's area of interest in organizing waste clean-ups
- Consulted with industry professionals to coordinate watershed analysis and trained team members in GIS

## 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 (PostgreSQL)
- **Interests:** Trying new and exotic foods, musical instruments, learning languages, gaming