

# Ashton Gibson

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## EDUCATION

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### University of Michigan, School for Environment and Sustainability

*Master of Science, Geospatial Data Science*

**Ann Arbor, MI**

*May 2027*

### University of Michigan, Program in the Environment

*Bachelor of Science, GIS Specialization, Minor in Water*

**Ann Arbor, MI**

*May 2025*

**GPA:** 3.6

**Relevant Coursework:** Principles of GIS, GIS for Earth Science, GIS Explorations, Environmental Data Justice, Statistics for EAS, Elementary Programming Concepts, Field Ecology, Environmental Politics, Oceanography, Introductory R Programming

**Skills:** Spatial analysis, data visualization, and cartography using Esri Products- ArcGIS Pro, Dashboards, StoryMaps Survey123; as well as QGIS, Microsoft Office and Excel, C++, Python, R

## EXPERIENCE

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### [GIS Portfolio](https://argibs.github.io/) (<https://argibs.github.io/>)

*September 2023 - present*

- View examples from my GIS coursework, as well as my personal cartography projects

### Michigan Department of Environment, Great Lakes, and Energy

*May 2025- present*

*GIS Student Assistant, Information Management Division*

- Develop engaging web applications using ArcGIS Dashboards, StoryMaps, and Experience Builder
- Conduct data cleanup and quality assurance reviews on multiple data sets for mapping and reporting
- Compile GIS workflows and publish guides to internal web pages, including how-to's, best practices, and relevant software/technology updates
- Prepare and maintain EGLE data for geovisualization in ArcGIS Pro and ArcGIS Online
- Assist staff in field operations with Survey123 and Field Maps
- Use ArcGIS Pro to create visualizations for Brownfield site technical reports
- Support GIS users throughout EGLE during monthly Office Hours, to explain complex topics and troubleshoot issues

### Michigan Department of Environment, Great Lakes, and Energy

*May - December 2024*

*GIS and Environmental Quality Intern, Remediation and Redevelopment Division*

- Developed and implemented GIS web-based database for project site analyses
- Employed SQL and Esri Survey123 to create dynamic reports of site analyses
- Designed and conducted spatial analysis of dry cleaner contamination risk in ArcGIS Pro
- Created and edited GIS data layers with guidance from GIS Professionals
- Published dry cleaner risk assessment as a web map on ArcGIS Online for continued use by EGLE

### University Musical Society, Ann Arbor Summer Festival

*December 2021 - May 2025*

*Patron Services Office Student Supervisor*

- Supervised student employees daily in customer service and handling transactions
- Utilized Excel/Google Sheets daily for data analytics and management projects
- Coordinated and collaborated with others to complete projects
- Organized and coordinated volunteer ushers before, during, and after performances

## FIELD WORK

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### University of Michigan Biological Station

*May - June 2024*

- Conducted research during classes- Field Ecology and Field Limnology
  - Used common field techniques for collecting terrestrial and aquatic samples
  - Applied statistical methods to analyze field data
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- Synthesized semester-long research into a final paper

## ADDITIONAL

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### **Certificate of Completion: Esri Spatial Data Science MOOC**

*October 2025*

- This six week online course covered advanced spatial data science topics such as:
  - performing suitability analysis, predictive modeling, space-time pattern mining, and object detection
  - Machine learning and Deep learning techniques, particularly for object detection in images

### **Huron River Watershed Council**

*September 2023 - present*

#### *Volunteer*

- Collected, organized and identified samples of macroinvertebrates
- Led and directed team to collect samples

**Other involvements:** Student Member of CMPASS: Community of Michigan Professionals Advancing Spatial Sciences, Member of UMich Campus Farm Club, Birdwatching Club