

Ashton Gibson

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EDUCATION

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

GIS Portfolio (<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

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

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