

MYLES C. WALIMAA

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SUMMARY: Creative and collaborative problem solver with a passion for ecological conservation through data science, field work, and geospatial analysis. Wide range of experiences from scuba diving to wildland firefighting, and self-taught coding in R to mapping in many platforms. Motivated to contribute to success.

Education:

Northern Michigan University – *B.S. Environmental Science*
Marquette, MI | August 2016 - May 2019 | Magna Cum Laude

Schoolcraft College – *A.A.S. Sound Recording Technology*
Livonia, MI | August 2013 - May 2015

Work Experience:

Cartographer, County of Mono, Bridgeport, CA January 2022 - July 2022

- Updated 135 Assessor's parcel maps for lot line adjustments, lot mergers, subdivision development, and condominiums using a vector-based "parcel fabric" dataset of county-wide parcel boundaries
- Transitioned the datasets, templates, and workflow from ArcMap 10.8.1 to ArcGIS Pro 3.0
- Answered phone calls and emails to assist taxpayers with parcel questions

Freelance GIS and Data Management Technician, Remote April 2020 - July 2022

- Independent contractor performing database management, cartography, and data coding for land conservation organizations, such as The Nature Conservancy, Huron Mountain Club, and National Park Service
- Created PDF and interactive online maps to display ecological monitoring sites using attribute tables, Excel files, statistics, and photographs for easy visualization of the data
- Georeferenced PDF maps to digitize historical maps as a vector layer for digital preservation using QGIS 3.14
- Wrote scripts using R 4.2.0 to batch read, mask, crop, combine and write large raster datasets, then to make charts and write attribute tables

E-Bike Assembler, Terra Trike, Grand Rapids, MI October 2021 - December 2021

- Responsible for on-time assembly, software installation, and QA/QC of over 200 electric recumbent tricycles
- Assisted warehouse staff in performing quality checks and preparing tricycle orders for shipping

Biological Science Technician, National Park Service, Isle Royale, MI May - October 2019, 2020, 2021

- Independently and cooperatively collected spatial data and handled wildlife including moose necropsy, beaver trapping, forest structure transects, bat monitoring, and water quality
- Worked with the Great Lakes Inventory and Monitoring Network to collaboratively develop Standard Operating Procedures for the invasive zebra mussel monitoring program
- Used DNR Garmin to manage GPS waypoints for natural resource activities
- Created and used ArcGIS Collector forms for streamlined data acquisition
- Prepared end-of-season project reports complete with charts and maps for data visualization
- Coordinated nautical transportation with coworkers and acquired 150 hours of motorboat operation
- Member of dive team to inspect mooring lines, buoys, and remove invasive zebra mussels
- Front-line wildland firefighter to contain the 340-acre Horne Fire in 2021

Guest Services Associate, Marquette Mountain Ski Hill, Marquette, MI November - March 2018/2019, 2019/2020

- Point-of-contact for customers questions and outdoor gear, lift ticket, ski rental, and lesson purchases
- Tended the cash register and performed inventory of merchandise into the database

Audio Visual Technician, Northern Michigan University, Marquette, MI February 2018 - May 2019

- Independently configured audio systems and projectors for events, drove university vehicles to event location, assembled equipment on-site, aided presenters, and monitored equipment throughout event duration

Sea Kayak Tour Guide, Northern Waters Adventures, Munising, MI April - September 2017, 2018

- Managed groups of twenty customers of various ages and backgrounds to create a once-in-a-lifetime experience by sharing shoreline history, geological facts, and water safety knowledge
- Performed self-rescues, assisted rescues, and controlled maneuvering in a variety of lake conditions, with over 1000 hours of sea kayak paddling experience, assisting new guides with techniques for their safety

Skills:

Project Management	Self-taught fluency in R coding	Highly Effective Teams
Data wrangling and analytics	Fieldwork and data collection	Risk Assessment
ESRI ArcGIS Pro, ArcMap 10, QGIS	Lab work and instrument use	Operational Leadership
Microsoft Applications	Vector and raster analysis	NWCG Wildland Firefighter Type 2
GPS, Collector, Avenza	NPS Boat Operator, Sawyer, Diver	First Aid, CPR

Volunteer Experience:

Mentor & Member, Conservation Data Lab January 2020 - Present

- Developed plans using Highly Effective Teams (HET) framework for independent and collaborative projects
- Mentored college students and members in R-Studio coding for data transformation, analysis, and presentation
- Co-developed and presented *Representation revisited* at International Association of Landscape Ecology conference 2021
- Assisted The Nature Conservancy in developing code for analyzing fire history data
- Performed raster reclassification and cartography for *Rapid assessment of the driftless region*
- Conducted forestry analysis using LiDAR and remote sensing for The Nature Conservancy's Ellsworth preserve
- Contributed code for The Nature Conservancy's prioritization of mine land reclamation in Virginia

Research Experience:

The gut microbiome of wild American marten in the Upper Peninsula of Michigan

Wildlife Ecology and Conservation Science Lab Submitted for publication August 2022

- Co-author who performed GIS processing using R-Studio and QGIS, prepared and conducted fieldwork activities, and contributed to writing the final manuscript
- Combined raster and vector (shapefile) datasets to generate random sampling locations, extract spatial and environmental data for analysis, and produce cartographic maps

Representation revisited: a detailed assessment of ecosystem representation in the protected areas of the United States

International Association of Landscape Ecology April 2021

- Co-author who cooperatively read literature, identified project, outlined research plan, gathered and analyzed data, prepared summary charts and interactive maps, and presented findings using R-Studio
- Combined and analyzed raster and vector (shapefile) data to extract ecological summaries inside and outside the protected lands of the United States using a variety of datasets

Analyzing trends in solar radiation over the Laurentian Great Lakes

Northern Michigan University April 2019

- Awarded first-place poster ribbon at Northern Michigan University's Celebration of Student Scholarship
- Independently read literature, identified project, outlined research plan, gathered and analyzed data, prepared research report, and created poster for presentation
- Data analysis included using R-Studio coding to transform, combine, and process large .csv files (75,000+ rows) into summary tables with basic statistical tests to assess hypothesis