

Adlai Nelson

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EDUCATION

Master of Science in Geographic Information Science (GIS), Expected 2025

Clark University, Worcester MA, GPA: 4.0

Bachelor of Arts in Global Environmental Studies, 2024

Clark University, Worcester MA, GPA: 3.92. summa cum laude. High Honors

Coursework: Advanced Vector GIS, Geospatial Database Management, Narrative Cartography

EXPERIENCE

Hunting Management Research Assistant

February 2025– Present

Clark University, Worcester, MA

- Worked on a contract from a private ranch in Arizona to map hunting pressure on private and state-owned land.
- Integrated multiple datasets of roads and trails to understand access by foot and vehicle.
- Used satellite imagery to identify areas suitable for deer habitat.

Landcover Mapping Research Assistant

January 2025– Present

Clark Center for Geospatial Analytics, Worcester, MA

- Worked on a grant from the Moore Foundation to map aquaculture ponds and mangroves in coastal areas.
- Engaged in QA/QC verification for landcover mapping.
- Collaborated with team to create practices, workflows, and systems for land cover classification.

Geospatial Coordinator Intern

October 2024 – December 2025

Trillion Trees, World Wildlife Fund (WWF-UK), Remote

- Supported the Forest Restoration Catalyst and Reforest Fund projects
- Integrated land cover, conservation potential, and remote sensing datasets into report.
- Used QGIS, Google Earth Engine and Python to automate processing of geospatial data

Advanced Raster GIS Course Assistant

August – December 2024

Clark University, Graduate School of Geography, Worcester, MA

- Led lab sessions for 25 students enrolled in Advanced Raster GIS.
- Designed and graded weekly lab assignments on statistical analysis, empirical modeling, and time series analysis.

Urban Forestry Graduate Student Manager

May – July 2024

Clark University, Human-Environment Regional Observatory, Worcester MA

- Worked on a grant from the MA Department of Conservation and Recreation to monitor planted urban tree health in two Massachusetts cities.
- Created and maintained web map to oversee field data collection using ArcGIS Field Maps and ArcGIS Online.
- Managed day to day operations of field crews surveying urban trees.
- Communicated findings to DCR officials, community organizers, and city partners.
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Urban Forestry Research Fellow

May – July 2023

Clark University, Human-Environment Regional Observatory, Worcester MA

- Performed field assessments of urban trees for MA DCR.
- Interviewed residents and stakeholders about tree care and planting.
- Analyzed and summarized geospatial and survey data using ArcGIS Pro.

- Presented findings to city and state partners in a presentation and technical report.

SKILLS AND AWARDS

ESRI Software: ArcGIS Pro, ArcMap, ArcGIS Field Maps, ArcGIS Online

Other GIS: QGIS, TerrSet (IDRISI), GeoDa, Google Earth Engine, PostGIS

Coding Languages: R, SQL, Python, Javascript

Other Software: Microsoft Suite (Excel, Word, Outlook), Docker, Git

Awards and Honors:

Global Warming Mitigation Project Constellations Fellow **Fall 2024**

Clark University Global Environmental Studies Outstanding Student Award **2024**

NESTVAL Undergraduate Student Research Poster Award **2023**

Professional Memberships

Member, American Association of Geographers

Member, Geospatial Professionals Network (formerly URISA)

Volunteering:

Hadwyn Arboretum

May 2023 – December 2024

- Managed invasive species
- Engaged in trail work
- Led nature walks and forestry education for local school groups: Worcester Technical High School, Doherty Memorial High School, May Street Elementary School

Presentations

Massachusetts Department of Conservation and Recreation, City of Worcester, NESTVAL, NEARC, AAG Trees in the City, GWMP Board of Directors