Adlai Nelson

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EDUCATION

Master of Science in Geographic Information Science (GIS), Expected May 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.

Coursework: Spatial Database Development, Advanced Vector GIS, Geospatial Analytics with Python

SKILLS

ESRI Software: ArcGIS Pro, ArcGIS Online, ArcGIS Field Maps, ArcGIS Story Maps
Other GIS: QGIS, Google Earth Engine, TerrSet (IDRISI), GeoDa, PostGIS, LAStools
Coding Languages: Python, SQL, R, Javascript
Other Software: Microsoft Suite (Excel, Word, Outlook), Docker, Git

EXPERIENCE

Hunting Management Research Assistant   *February 2025 – Present*
Santa Margarita Ranch, Pima County, AZ (Remote)
- Created and updated custom roads and paths layer through analysis of satellite imagery and field verification.
- Modeled hunting access and game species habitat throughout the ranch using ArcGIS Pro.
- Created visualizations and reports for client describing sources of hunting pressure and recommending strategic road closures to limit hunter's access to private land.

Landcover Mapping Research Assistant   *January 2025 – Present*
Clark Center for Geospatial Analytics, Worcester, MA
- Created landcover maps using automated and manual landcover mapping techniques.
- Developed training manuals describing best practices, workflows, and systems for landcover mapping

Geospatial Data Coordinator Intern   *October – December 2024*
Trillion Trees, World Wildlife Fund, Woking, UK (Remote)
- Proposed GIS projects to expand program officers knowledge of forest conservation sites.
- Gathered data from diverse landcover, conservation potential, and remote sensing datasets into report.
- Cleaned and managed dataset of Trillion Trees project areas.
- Used QGIS, Google Earth Engine and Python to automate processing of geospatial data.

Urban Forestry Graduate Student Manager   *May – July 2024*
Clark Geography Human-Environment Regional Observatory, Worcester, MA
- Improved field data collection efficiency through optimizing forms and feature layers in ArcGIS Field Maps.
- Managed day to day operations of field crews surveying urban trees.
- Communicated findings to DCR officials, community organizers, city partners, and residents.
- Instructed undergraduate fellows in the use of ArcGIS Pro and R for geospatial and statistical analysis.

AWARDS

Global Warming Mitigation Project Constellations Fellow **Fall 2024**
Clark University Global Environmental Studies Outstanding Student Award **2024**
NESTVAL Undergraduate Student Research Poster Award **2023**