

CLIO V. BATE

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L: Clio-Bate

EDUCATION

MS Geospatial Information Systems (GIS)

Clark University: Worcester, MA

Expected Spring 2024

BA Environmental Science and Policy, Spanish minor

Smith College: Northampton, MA

Spring 2022

Comparative Ecology and Conservation

Study Abroad, SIT Study Abroad: Ecuador

Spring 2020

SKILLS

ArcPro, Terrset(IDRISI/Clark Labs), GISOnline, ArcGIS Storymaps, ArcGIS Field Maps, Python, R, RStudio, GitHub, GEE, Illustrator, Mailchimp, website design.

EXPERIENCE

Urban Forestry Research Supervisor, HERO, Clark University

Summer 2023

- Supervised undergraduate fellows for the Human-Environment Regional Observatory (HERO) in urban forestry research project. Supervised data collection, use of ArcGIS field maps, in person interviews, and analysis of qualitative and quantitative data.

GIS Project Assistant, Geography Dep., Clark University

Spring 2023-Spring 2024

- Worked closely with a Clark professor in collaboration with the Gitga'at Nation to create maps of shipping routes, trap locations, wildlife sightings, and more. Designed, edited and organized a 60 plus page annual report for the First Nation.

Head Editor, NGO Sustainability

Summer 2020 – Summer 2021

- Head editor for the organization newsletter, "Global Warning", conducted independent research on environmental issues, worked in a team to update website, and wrote and presented reports at weekly meetings.

Piedmont Environmental Council Fellowship

Summer 2020

- Learned about environmental non-profit work and presented a two-week practicum project that assessed vacant land in an adjacent town for PEC using ArcGISOnline.

RESEARCH

The Ecological Factor: Culvert Assessment for Replacement or Removal in Northampton, MA, Capstone Project, Smith College

- Developed a Spatial Ecological Assessment using ArcPro to create a rigorous set of criteria and methodology for conducting pre- and post-assessment of culverts and identified a list of high-priority culverts for replacement or removal in Northampton MA.

Palma Africana (*Elaeis guineensis*) In Shushufindi, Ecuador: Comparison of Land Use in Smallholder vs DANEC S.A Monocrops Plantations, *SIT Ecuador Comparative Ecology and Conservation*

- Used Google Earth Pro to identify crop type and area occupied by smallholder crop holders, calculated the amount of Rondo (Glyphosate) needed to cover Danec S.A.'s monocrop; and compared the environmental impacts, like pesticide use, of diverse smallholder agriculture to Danec S.A's African palm oil monocrop.

ADDITIONAL EXPERIENCE

Miyawaki Forest Directed Study, Clark University

Spring 2024- Present

- Worked with a professor and the city of Worcester to monitor and evaluate the impact of two newly planted Miyawaki, or "Micro Forests," intended to reduce urban heat island effect.

IDCE Department Social Chair, Clark University

Winter 2023- Winter 2024

- Organized social events for the department's student body to foster community growth and met regularly with student council and department heads to ensure the student council runs smoothly.