

# MICHAEL ABDELMESSIH

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## PROFILE

Motivated environmental scientist with a vehement interest in cleantech and sustainable policy, in pursuit of a Master's of Science in Environmental Science & Policy.

## EDUCATION

### Northeastern University

August 2022

Boston, MA

Candidate for Master of Science in Environmental Science & Policy

*Relevant Courses:* Soil Science, Climate & Atmospheric Change, Environmental Planning, Environmental Science & Policy Seminar, Strategizing Public Policy, Techniques of Policy Analysis

GPA: 3.8

### Northeastern University (Honors)

Graduated May 2021

Boston, MA

Bachelor of Science in Environmental Science

*Relevant Courses:* Genetics & Molecular Biology, Organic Chemistry, Physics 2, Environmental Science, Dynamic Earth, Earth Materials, Earth Landforms & Processes, Glacial/Quaternary History

GPA: 3.5

## SKILLS

**Computer:** Microsoft Office, GIS, ArcGIS, Google Earth, AutoCAD, Java

**Laboratory:** TLC, Purification, Distillation, Crystallization, Pipetting, Vacuum Filtration

**Other:** Customer Service, Public Speaking, Active Listening, Critical Thinking

**Languages:** Fluent English, Conversational Arabic, Conversational Spanish

## PUBLICATIONS

★ *Oyster Reefs, Salt Marshes and Mangroves in the GTM NERR:* On three habitat-forming species, relationships and the invaluable ecosystem services they provide

<https://storymaps.arcgis.com/stories/9a3fdab0a0c2474c80d7b340531304e9>

★ *Urban Ecology, Urban Wildlife, Protected Areas:* Verified additions to three Wikipedia articles

<https://en.wikipedia.org/wiki/User:Soccerguym/sandbox>

★ *Humanity's Endgame Diet:* How one unprecedented, technology-driven change to our diets could yield great benefits across various metrics

<https://medium.com/the-ortelian-society/humanityvs-endgame-diet-51730ea47b3c>

★ *On the Cultivation of Divergent Thinking:* Incorporating classical principles into contemporary education

<https://medium.com/the-ortelian-society/on-the-cultivation-of-divergent-thinking-a13ca19e6624>

## EXPERIENCE

### Transportation Planning & Infrastructure Co-Op, *BPDA*

January 2022 – July 2022

Boston, MA

- Draft alignments, profiles, and cross sections for street and intersection design projects
- Provide written analysis for transportation impacts of development projects in the Article 80 large and small-project review processes, interagency transportation initiatives, and transportation/environmental studies
- Research best practices and policies to advance new or update transportation policies
- Create clear graphics for internal presentations and community meetings

### Environmental Research Intern, *Boundless Impact Research & Analytics*

Sept 2021 – Dec 2021

New York, NY

- Gather qualitative and quantitative data to meet specific project objectives by using various information and data sources
- Assist in creating databases to catalogue, update and retrieve industry data
- Investigate product LCA (life-cycle analysis) to determine environmental footprint
- Research and draft company reports, letters and proposals

### Ecological Researcher, *GTM NERR*

January 2021 – May 2021

Boston, MA

- Identified ecological benefits provided by oyster reefs to facilitate salt marsh and mangrove habitat growth
- Performed spatial analysis of oyster reef metric (length, height, slope, live organism composition) variability in correlation with salt marsh and mangrove habitats using ArcGIS Pro
- Demonstrated how climate change is driving mangrove expansion
- Identified ways in which anthropogenic activities are diminishing oyster reef survival and the ecological benefits they provide

### Clean Energy Advocate, *Common Energy*

March 2021 – Sept 2021

Boston, MA

- Learned from top sustainability leaders about clean energy and community solar
- Reached out to personal networks to explain community solar
- Enrolled households in free, local, community solar projects
- Participated in a broader community of climate activists to facilitate the clean energy transition through outreach

### Administrative Assistant, *Northeastern University*

February 2019 – Dec 2021

Boston, MA

- Organized school-sanctioned events such as award ceremonies and congratulatory activities
- Recorded in-person events and classes in real-time to make them accessible remotely to commensurate students
- Kept stock of significant office supplies and materials
- Carried out ABET accreditation and office (phone) reception