

# Daniel Crownover

## Curriculum Vitae

Caño Palma Biological Research Station,  
Limón Province, Pococí  
5 miles north of Tortuguero, Costa Rica,  
(10.581383191193193, -83.52383858616386)

dancrown551@outlook.com

## EDUCATION

B.S. Department of Environmental Science and Ecology, The University of North Carolina at Chapel Hill

Minor: Geographic Information Systems(GIS) and Remote Sensing

B.S. Institute for Marine Science, University of North Carolina at Chapel Hill (August - December 2023)

Dual Enrolled Duke University (2021)

## RESEARCH EXPERIENCE

- 2024 - 2025 Assistant Coordinator of Research: Caño Palma Biological Station
  - Coordinator of Sea Turtle Research, Daily field work 7 hours-day for 1 year, Complex data analysis, proposal writing, article writing, public speaking, community engagement
- 2023 - 2024 Capstone Research in Biodiversity and Ecosystem Structure: UNC Institute for Marine Science
  - Mapped biodiversity, collected data, rigorous field work
- 2023 - 2024 Independent Research in Water Microecology and Genomics: UNC Institute of Marine Science
  - Collected samples
  - Conducted analysis with analysis with DNA Tracers, Molecular Genomics, Chlorophyll A and B
  - Cataloged and interpreted molecular bio-fluorescence
- 2023 - 2024 Researcher in Noble Lab, University of North Carolina Institute for Marine Science
  - Microbiology, DNA Tracers, Microbial Genomics, BioHazard Two Laboratory(BSL-2)
- 2023 - 2024 Researcher Coastal Carolina River Watch
  - Conducted weekly sampling

- Conducted monthly plane flyovers to determine nutrient leaching and eutrophication
- 2023 - 2024    UNC Shark Research Program
- Participated in shark geotagging, capture and release
- 2022            Intern with National Geographic Society and Rwanda Wildlife Conservation Association:
- Conducted biodiversity surveys in unexplored Islands in Great Lake Kivu
  - Participated in the development of the i-naturalist app
  - Collected and processed data
  - Formulated models with Population Dynamics
- 2020-2022    National Geographic Society Apprentice for Director of Professional Learning
- Worked closely to interpret different aspects from the professional sector for learning
- 2015 - 2019    Assistant Researcher Southern Appalachian Raptor Research Ecological Laboratory
- Miss-netting
  - Bird banding
  - Interpreted large data sets and geo-tagging information
- 2020            Assistant Researcher, International Nepalese Geographic Forest Management Research Project (Duke University, UVA, UNC, Tribhuvan University Nepal)
- Worked on remote sensing cloud removal with Google Earth Engine and R
- 2012-2018    U.S Forest Service Herpetology Pond Study Ocala National Forest Florida
- Collected long term data sets for reptiles and amphibian populations

## **PRESENTED WORK:**

**Anthropogenic Eutrophication of Marine Ecosystems and Current/Developing Reduction Strategies: UNC IMS**

**Marine Eutrophication and Nutrient Abatement: UNC Institute for Marine Science, Duke Marine Science Lab**

**UNC Institute for Marine Science Conference for Ecological Research: DNA Tracing for Contamination of Estuarine Waterways**

**Biodiversity and Ecosystem Structure of Phillips Island: UNC Institute of Marine Science, Duke Marine Science Lab, NOAA**

## **International Collaboration of the Conservation of Grey Crowned Crane : Disney, National Geographic, Tusk, African Wildlife Foundation**

### **CONFERENCE ACTIVITY**

2022	International Collaboration of the Conservation of Grey Crowned Crane with Disney, National Geographic, Tusk, African Wildlife Foundation
2022	IUCN APAC 2022: IUCN African Protected Areas Congress
2023	Coastal Carolina River Watch Marine Debris Symposium
2023	University of North Carolina Institute for the Environment Conference for Ecological Research

### **PUBLICATIONS**

2023	Independent Research on Water Contamination of White Oak River Basin Using Novel ddPCR and DNA Tracing Methods: PI Rachel Nobel
2023	Capstone Community Biodiversity Review of Phillips Island, Atlantic Coast, NC Ezra Ahmad, Sophie Bragger, Anna Ceicel, Kat Borgen, Abby Whezel, Drake Morgan, Cord Mcraggin, Emma Whillis, Kailey Powell, Daniel Crownover

### **MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**

2022 - 2023	Fellowship of the Academy of Wilderness Medicine
2022 - 2023	Colorado Mountain College Center for Wilderness Medicine
2022 - 2023	Wilderness Medical Society
2022	Rwanda Wildlife Conservation Association
2021-2022	National Geographic Society

### **COMMUNITY OUTREACH**

2023	Coastal Carolina River Watch <ul style="list-style-type: none"><li>Conducted canvassing survey for water quality and agricultural nutrient overloading areas</li></ul>
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- Worked booths at Topsail Surf Competition for water quality information in White oak river basin

#### 2023 Southern Oyster Reef Restoration Initiative

- Restored oyster reefs in the Neuse River Estuary

#### 2023 NC Sea-Turtle Watch

- Excavated sea turtle nests

#### 2022 Rwanda Wildlife Conservation Association and National Geographic: Kigali - Rwanda

- Community Conservation, empowerment of local communities through conservation Island of Kivu
- Community Conservation Champions: Empowerment of locals through conservation Rweru Marsh: Border of Tanzania and Rwanda

#### 2019 - 2022 Arab Student Organization

- Community service for the Arab community

#### 2020 - 2022 Muslim Student Organization

- Community Outreach and community service

#### 2017 Student Conservation Association

- Community Conservation, trail maintenance, rugged field work

## LANGUAGES

Spanish: Fluent

Arabic: Intermediate, reading, speaking, writing

Farsi: Beginner, reading, writing, speaking

Kinyarwanda: Beginner, speaking

Kiswahili: Learning

## RELEVANT CERTIFICATIONS

Environmental Health and Safety:

Introduction to Biosafety EHS Certification  
BioSafety Cabinets EHS Certification  
Autoclave EHS Certification  
Biological Level 2 Lab Safety EHS Certification  
Field Work Safety EHS Certification

Medicine:

Wilderness First Responder: Emergency Medical Service  
Certification(EMS)  
Certification in Advanced Wilderness Medicine  
CPR

Coding Languages Certifications:

C++  
C  
R-studio and R Statistical coding language

GIS Platforms Certification:

Arc GIS Online  
Arc Pro  
ENVI  
QGIS

## REFERENCES

Mary Ford, Senior Director  
Jane Goodall's Roots & Shoots USA  
Email: [mford@janegoodall.org](mailto:mford@janegoodall.org)

Rachel Nobel  
Professor, Department of Environmental Sciences and Engineering  
Director, UNC IMS Morehead City Field Site  
University of North Carolina, Chapel Hill

Email: [rt noble@email.unc.edu](mailto:rt noble@email.unc.edu)

Joel Fodrie  
Professor, Nicolas School of the Environment  
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