

CLINTON STIPEK

GIS Analyst / Developer

EXPERTISE

Microsoft Office (10 Years)



ArcGIS (5 Years)



R (3 Years)



Spatial Analysis (3 Years)



Statistics (1 Year)



Tableau (6 Months)



SQL (6 Months)



Python (6 Months)



EDUCATION

Master of Science -
University of Miami

Miami, FL, USA - Dec 2018

CGPA: 3.82 ; Major: Marine Biology
and Ecology

Bachelor of Science -
University of Washington

Seattle, WA, USA - Jun 2013

CGPA: 2.8 ; Major: Oceanography

CONTACT

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PROFILE

I am an ambitious individual working in a GIS / data visualization role that involves both development and analysis. I have international and domestic experience working with spatial analysis, statistics, and modelling while incorporating various factors. My goal is to work in a role which focuses on analyzing statistics and building graphic, dynamic dashboards while incorporating spatial analysis to help streamline processes. I hope to be able to learn new skills, expand my knowledge base, and challenge myself as a professional in a diverse work environment.

EXPERIENCE

Verizon | December 2019 - Present

GIS Analyst / Developer

- Automate various projects / processes for multiple teams via Python within ArcGIS.
- Build dashboards via Tableau to display complex datasets.
- Database management of fiber, construction, and wireless network.
- Statistical analysis / visualization of budget sheets for streamlining of finances.

Comtech | April 2019 - December 2019

Data Analyst

- Provision data to support deployment of internal and external systems.
- Collect, analyze and quality review data using a variety of in-house tools.
- Generate reports via Python for PSAP boundaries through ArcGIS.
- Run SQL queries for QA/QC and database management .

University of Miami - Lirman Lab of Ecology | Dec 2017 - Present

Data Analyst

- Obtaining and post-processing (mosaic, filter, georeferencing) historical imagery from.
- Vector QA/QC - create study areas/methods for NDVI extraction, post-processing.
- Use Modelbuilder in GIS in cohesion with Python to generate streamlined processes.
- Statistical analysis of seagrass populations to examine temporal trends.

University of Miami - Lirman Lab of Ecology | DEC 2017 - DEC 2018

Data Assistant

- Analyze temporal, spatial, and statistical changes due to fracturing of seagrass beds.
- Model built in R to account for dynamic population dynamics (fusion, fission, fracture) and to project their populations under varying circumstances.
- ArcGIS Pro to delineate historic photos, dissolve all features into a 500m radius study site, intersect to determine what percentage of patches is contributing to others, clip to calculate how many patches were fractured from initial patch, map algebra to determine percentage and ratios.

University of Miami Teaching Assistant | JAN 2018 - DEC 2018

Geographic Information Systems 460/660 (Undergraduate/Graduate)

- Assisted students in data acquisition, data storage, data analysis and display of spatio-temporal data layers.
- Helped build models in R and Python to visualize / automate projects.

Tutorial Resources | Dec 2017 - April 2019

Private Tutor

- Assisted children with learning disabilities ages 12-17.
- Managed multiple different children and aided the parents in better understanding the appropriate methods for progressing their children's education.

PRESENTATIONS

Hydrological Conference
Presenter - 2013

Slope Delineation of Historic
Shorelines

ESRI User Conference
Presenter - 2018

Tracking Movements of Marine
Mammals to Help Identify Spatial
and Temporal Patterns

SE Ecological Conference
Presenter - 2018

Seagrass Communities in South
Florida: Responses to Natural
and Anthropogenic Strains

ESRI User Conference
Presenter - 2019

Resilience of Seagrass
Communities Exposed to Pulsed
Freshwater Discharges: A
Seascape Approach

EXPERIENCE CONT.

Cascadia Research Collective | APR 2013 -JUN 2016
Intern / GIS Tech

- Using GIS, R and Microsoft Office to post-process and analyze the spatio-temporal patterns and statistics of various species.
- Database management of various regions.

South African Shark Conservancy | JUN 2015 -AUG 2015
Intern

- Biodiversity monitoring and sampling of a protected bay and coastal estuaries.
- Tagging and sampling of endemic shark species to track spatial movement.
- Management of various fisheries within a nearshore ecosystem.
- Used GIS and Statistical Software to analyze movement patterns of endemic shark species.

University of Washington Teaching Assistant | MAR 2013 -JUN 2013
Introduction to Oceanography 201

- Led weekly labs and workshops to review course material on coastal and pelagic oceanographic influences and how it affects the nearshore ecosystem.

University of Washington - COAST | JUN 2011 -JUN 2013
Intern

- Managed over 700 volunteers from multiple states working on expanding the influence that citizen scientists can have on the nearshore ecosystem.
- Surveyed and studied the coastal ecosystem along the Washington State coast and the spatio-temporal patterns displayed by seabirds.
- Set up identification methods for different types of marine debris and trained the volunteers for data acquisition.

Department of Natural Resources | OCT 2012 -JUN 2013
Project Assistant

- Light Rangefinder imaging of bluffs along the nearshore Elwha river ecosystem.
- Identified degradation rates to gain an understanding for the sediment rejuvenation rates from the river mouth.

PUBLICATIONS

Stipek, C., Santos, R., Babcock, E., Lirman, D. 2020. Modelling the resilience of seagrass communities exposed to pulsed freshwater discharges: A seascape approach. PLOS ONE 15(2): e0229147.

Santos, R., Lirman, D., Stipek, C. 2020. Seagrass adaptability to increased pressures within Biscayne Bay, Miami, FL. Publication process.

LEADERSHIP

University of Washington Student/Athlete
Swimming Representative for the University of Washington Leadership Council
High School Team Captain - Swimming, Water Polo
T.A. Excellence Award - 2018-2019 University of Miami
Udemy Course Instructor - Introduction to ArcGIS Pro: A Beginners Course
ROOTS/JA - Community Volunteer / Instructor

REFERENCES

Craig Dowden
Senior Manager - Comtech

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Postdoctoral Fellow-
Florida International University

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