

OLIVER C. STRINGHAM

PhD, Scientific Researcher & Data Scientist

I apply scientific rigor and curiosity to solve real-world problems. I use data science tools including statistics, machine learning, natural language processing, and geospatial analyses to answer questions about underlying systems.



EDUCATION

- 2018 • **Rutgers University**
PhD in Ecology & Evolution 📍 New Jersey, USA
- 2014 • **Rutgers University**
BS in Environmental Science 📍 New Jersey, USA
BS in Ecology, Evolution, & Natural Resources
Certificate in GIS (Geographic Information Systems) 🌐



PROFESSIONAL EXPERIENCE

- 2022-06 | present • **Senior Project Administrator**
Rutgers University 📍 New Jersey, USA
 - Synthesize impacts of the Institute of Earth, Ocean, and Atmospheric Sciences using data science techniques including data acquisition, cleaning, and visualization.
 - Assist research labs with data and science needs, including applying statistical methods and writing papers.
- 2020-01 | present • **Data Scientist**
Freelancer (UpWork & Contract Work) 📍 USA & Australia
 - Machine Learning models to predict daily number of orders for retail company
 - Spatial optimization to determine zones for delivery trucks
 - Spatial clustering methods to categorize property evaluation
 - Quantitative analysis of deforestation rates from spatial raster data
- 2019-01 | 2022-06 • **Research Associate (Postdoctoral)**
The University of Adelaide 📍 Adelaide, Australia
 - Applied data science principles to researching wildlife trade
 - Coded over 80 web scrapers to collect data of online wildlife trade
 - Created/maintained MySQL database of >6 million records for wildlife trade
 - Machine learning tools (text classification) to process online data
 - Created web application with python (Flask) for Australian gov't
 - Communicated results in reports, papers, and talks
 - Supervised and lead a team of skilled professionals
- 2015-09 | 2018-12 • **PhD Researcher & Teaching Assistant**
Rutgers University 📍 New Jersey, USA
 - Researched the online pet trade of reptiles and their invasion risk
 - Taught courses: General Biology, Ornithology, Plant Ecology
 - Worked in an interdisciplinary international team of scientists
- 2015-01 | 2015-06 • **Geospatial (GIS) Technician**
New Jersey Depart. of Fish & Wildlife 📍 New Jersey, USA
 - Performed geospatial analyses for endangered species programs
 - Used python to automate geospatial processes previously done manually



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in [LinkedIn](#)

Up [UpWork](#)

🔖 [Google Scholar](#)

🐙 [GitHub](#)

PROGRAMMING

R / tidyverse

Python / pandas / Flask

SQL / PostgreSQL / MySQL

git / GitHub

HTML / CSS / Javascript

DATA ANALYSIS

Machine Learning, Regression:

scikit-learn / tidymodels

Geospatial Analysis:

sf / geopandas / PostGIS

Data Visualization:

ggplot2 / seaborn / JS

Last updated on 2022-12-16.

This resume was made with the R package [pagedown](#).

2015-01
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2015-08

Geospatial (GIS) Analyst

Harbor & Estuary Program, Hudson River Foundation

📍 New York, USA

- Performed spatial analyses regarding public access to waterways in NYC/NJ



SCIENTIFIC PUBLICATIONS

20 scientific papers, >300 citations

[Google Scholar Profile](#)

2021

Text classification to streamline online wildlife trade analyses

PLOS ONE

<https://doi.org/10.1371/journal.pone.0254007>

2021

Dataset of seized wildlife and their intended uses

Data in Brief

<https://doi.org/10.1016/j.dib.2021.107531>

2020

A guide to using the internet to study the wildlife trade

Conservation Biology

<https://doi.org/10.1111/cobi.13675> (PDF)

2022

The dark web trades wildlife, but mostly for use as drugs

In review

<https://ecoevorxiv.org/repository/view/3731/>