

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, and geospatial analyses to answer questions about underlying systems.

PROFESSIONAL EXPERIENCE

- 2022-06
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present
- **Senior Project Administrator**
Rutgers University 📍 New Jersey, USA
Institute of Earth, Ocean and Atmospheric Sciences
- Synthesize impacts of the Institute using data science techniques including data acquisition, cleaning, and visualization.
 - Assist research labs with data and science needs, including applying statistical methods, data visualizations, and writing papers.
- 2020-01
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present
- **Data Scientist**
Freelancer (UpWork & Contract Work) 📍 USA & Australia
- Quantitative analysis of deforestation rates from spatial raster data
 - Interactive web maps to visualize spatial data with leaflet, Mapbox, and Javascript
 - Machine Learning models to predict daily number of orders for retail company
 - Spatial optimization to determine zones for delivery trucks
- 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 three graduate and two undergraduate students
- 2015-09
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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
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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
- 2015-01
|
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

EDUCATION

- 2018
- **Rutgers University**
PhD in Ecology & Evolution 📍 New Jersey, USA



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in [LinkedIn](#)

🔖 [Google Scholar](#)

🐙 [GitHub](#)

PROGRAMMING

R / tidyverse

Python / pandas / Flask

SQL / PostgreSQL / MySQL

git / GitHub

HTML / CSS / Javascript

Leaflet / Mapbox

DATA ANALYSIS

Machine Learning, Regression:

scikit-learn / tidymodels

Geospatial Analysis:

sf / geopandas / PostGIS

Data Visualization:

ggplot2 / seaborn / JS

Last updated on 2023-08-28.

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

2014



Rutgers University

BS in Environmental Science

BS in Ecology, Evolution, & Natural Resources

Certificate in GIS (Geographic Information Systems) 



New Jersey, USA



SCIENTIFIC PUBLICATIONS



20 peer-reviewed papers, >500 citations, h-index = 11

[Google Scholar Profile](#)

2023



Building an online surveillance system to monitor wildlife trade for environmental biosecurity [Technical Report]

<http://dx.doi.org/10.13140/RG.2.2.13336.78087> (PDF)

2023



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

People and Nature | <https://doi.org/10.1002/pan3.10469>

2021



Dataset of seized wildlife and their intended uses

Data in Brief | <https://doi.org/10.1016/j.dib.2021.107531>

2021



Live reptile smuggling is predicted by trends in the legal exotic pet trade

Conservation Letters | <https://doi.org/10.1111/conl.12833>

2021



Text classification to streamline online wildlife trade analyses

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

2020



A guide to using the internet to study the wildlife trade

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



LANGUAGES



English

Fluent



Spanish

Conversationally fluent