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 webscrapers 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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🌐 Jersey City, New Jersey

✉ oliverstringham@gmail.com
🔗 oliverstringham.com
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
|
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/