OLIVER C. STRINGHAM

PhD, Data Scientist & Scientific Researcher

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

PROFESSIONAL EXPERIENCE

2022 | 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.
- Gather and produce compelling data visualizations for various climate change related variables for New Jersey.

2020 | present

Data Scientist
Freelance (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 country-level deforestation rates from spatial data

2019 | 2022

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 | 2018

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

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

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

New York City
+1 201 421 1761

oliverstringham@gmail.com
oliverstringham.com
LinkedIn
UpWork
Google Scholar
GitHub

PROGRAMMING

R / tidyverse
Python / pandas / Flask
SQL / PostgreSQL / MySQL
git / GitHub
HTML / CSS / Javascript

DATA ANALYSIS

Machine Learning, Regression, Classification:
scikit-learn / tidymodels
Geospatial Analysis:
sf / geopandas / PostGIS
Data Visualization:
ggplot2 / seaborn / JS

Last updated on 2022-08-23.

*This resume was made with the R package **pagedown**.*

2014

Rutgers University
BS in Environmental Science — New Jersey, USA
Certificate in GIS (Geographic Information Systems)

TECHNICAL PAPERS

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)

20 scientific papers, ~300 citations
Google Scholar Profile