OLIVER C. STRINGHAM

PhD, Data Scientist & Scientific Researcher

I apply scientific rigor and curiosity to solving data science problems.

💼 PROFESSIONAL EXPERIENCE

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 | present

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

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

✉ oliverstringham@gmail.com
🔗 oliverstringham.com
in LinkedIn
Up UpWork
Google Scholar
GitHub

For more information, please contact me via email.

</> 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

2020 • **A guide to using the internet to study the wildlife trade**
Conservation Biology
https://doi.org/10.1111/cobi.13675 (PDF)

• **19 scientific papers, >200 citations**
Google Scholar Profile