# 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.

## 💼 PROFESSIONAL EXPERIENCE

**2022-06 | present**

### Senior Project Administrator
Rutgers University 📍 New Jersey, USA
- Synthesize impacts of the 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

**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

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*

**2014** ● **Rutgers University**
BS in Environmental Science ⚲ New Jersey, USA
BS in Ecology, Evolution, & Natural Resources
Certificate in GIS (Geographic Information Systems) 🌐

## 🖳 SCIENTIFIC PUBLICATIONS

● **20 peer-reviewed papers, >350 citations**
Google Scholar Profile

**2021** ● **Text classification to streamline online wildlife trade analyses**
PLOS ONE | https://doi.org/10.1371/journal.pone.0254007

**2021** ● **Live reptile smuggling is predicted by trends in the legal exotic pet trade**
Conservation Letters | https://doi.org/10.1111/conl.12833

**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