OLIVER C. STRINGHAM, PhD

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SCIENTIFIC RESEARCHER & DATA SCIENTIST

Passionate about applying data science and scientific rigor to address environmental challenges. Experienced in developing reproducible, well-documented data workflows. Brings strong interdisciplinary collaboration skills and growing experience as a team lead.

PROFESSIONAL EXPERIENCE

Research Analyst— Rutgers Climate and Energy Institute, Rutgers University; New Jersey, USA | 2022 – Present
- Collaborated on interdisciplinary teams and large-scale grants
- Contributed to high-impact publications and reports
- Supervised staff of three interns to produce weekly newsletter and social media marketing
- Produced weekly news articles on faculty scientific publications for a general audience
- Handled administrative operations, including student grant program and event planning

Freelance Data Scientist — USA & Australia | 2020 – Present
- Developed machine learning models to forecast daily retail orders
- Conducted spatial clustering and optimization for delivery logistics
- Quantitative analysis of deforestation from spatial datasets

Postdoctoral Research Associate — The University of Adelaide; Adelaide, Australia | 2019 – 2022
- Led research program on global wildlife trade
- Built and maintained a MySQL database (>6 million records)
- Created over 80 web scrapers to collect and classify online wildlife trade data
- Designed a web app in Python (Flask) for government use
- Supervised graduate students and collaborated internationally

Geospatial Technician — New Jersey Department of Fish & Wildlife; New Jersey, USA | 2015
- Automated spatial analyses using Python for endangered species data
- Performed spatial analyses related to land use change in New Jersey

Geospatial Analyst — Harbor & Estuary Program, Hudson River Foundation; New York, USA | 2015
- Performed spatial analyses to assess public waterway access

EDUCATION

PhD in Ecology & Evolution; Rutgers University, New Jersey, USA | 2018

BS in Environmental Science & BS in Ecology, Evolution, and Natural Resources; Certificate in Environmental Geomatics; Rutgers University, New Jersey, USA | 2014

TECHNICAL SKILLS

- Programming: R (tidyverse, tidymodels), Python (pandas), SQL (PostgreSQL, MySQL), Git. Intermediate skills in JavaScript, HTML, CSS, Flask
- Data Analysis: Machine Learning, Regression, Text Classification, Large Language Models
- Geospatial: sf, geopandas, PostGIS
- Visualization: ggplot2, seaborn, leaflet, experience with web data visualizations

SELECTED PUBLICATIONS

Over 30 co-authored papers in peer-reviewed scientific journals. Google Scholar:
https://scholar.google.com/citations?user=3ZhZiQgAAAAJ&hl=en
- Text classification to streamline online wildlife trade analyses. *PLOS ONE*.
- A guide to using the internet to study the wildlife trade. *Conservation Biology*.
- The dark web trades wildlife, but mostly as drugs. *People and Nature*.

GRANTS & AWARDS

- XPrize Rainforest Competition, Role: Bioinformatician, 2nd Place ($2M to team)
- Contributor to $2.5M Chancellor's Challenge Grant (Rutgers Climate and Energy Institute)
- Contributor to $420k Australian Research Council Discovery Grant on pet trade drivers

COMMUNITY & LEADERSHIP

- Mentor and co-supervisor for PhD and Honors students
- Reviewer for journals: Conservation Biology, Biological Conservation, and more
- Invited speaker at Princeton University, Australian Biosecurity Symposium, and others