



GregoryPenn

Ecologist & Data Scientist

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About me

I am an ecologist and data scientist working in spatial modeling. Interests include: species distribution modeling, Bayesian spatial inference and spatial quantification of uncertainty, reproducible research, and data visualization.

Skills

Current level

- 95% R
 - Analysis
 - Wrangling
 - Visualization
 - Workflow automation
- 75% SQL
 - Schema design
 - Implementation and management
 - Query language
- 70% QGIS
 - Open-source GIS platform similar to Arc
- 70% Git
 - Version control
 - Collaborative software development
- 50% R Shiny, Javascript, HTML/CSS
 - Less extensive experience than other skills
 - Confident that I could pick up quickly

Education

- 2014 Masters of Science in Biology New Mexico State University
Las Cruces, New Mexico
- 1998 Bachelor of Arts in Photocommunications Saint Edwards University
Austin, Texas

Experience

- 2015-now Doctoral Candidate New Mexico State University
Biology Department
 - Bayesian Spatial Modeling with C++
 - GIS analysis & mapping with QGIS, R, Python
 - Collaborative code development with version control
- 2016-2018 Research & Teaching Assistant Missing classes New Mexico State University
Biology Department
 - Data analysis & automation with R, Python, C++
 - GIS mapping & data with QGIS, R
- 2015-2016 Instructor New Mexico State University
Fish Wildlife & Conservation Ecology Department
 - Ecological Biometry with R
 - Population Ecology
- 2013-2015 Instructor San Juan College, Farmington NM
Biology Department
 - Taught Intro Horticulture & General Biology
 - Managed Herbarium's SQL Database
- 2010-2013 Research & Teaching Assistant New Mexico State University
Biology Department
 - Designed, implemented Avian Genome Project's SQL Database. Coded queries for researchers
 - Data analysis and automation with R and Python
 - General Biology TA
 - Coordinated BioCAT Mentor Program
- 2010 Instructor San Juan College, Farmington NM
English Department
 - Taught Technical Writing
- 2009-2010 Assistant Curator - Volunteer San Juan College, Farmington NM
Herbarium
 - Transitioned data to Specify SQL database
 - Wrote documentation for SQL database
 - Coordinated student workers