Scott A. Chamberlain

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SKILLS
- R: 15 years experience, research projects and packages. Created over 100 R packages.
- Python: 6 years experience. Maintaining 5 Python packages on PyPi
- Ruby: 6 years experience. Maintaining 3 Ruby packages on Rubygems. In addition, I maintain two REST APIs used by scientists, written in the Ruby Sinatra framework.
- HTML/CSS: Proficiency; using HTML and customizing CSS for websites.
- Databases: Experience includes SQL (MySQL, MariaDB, SQLite, PostgreSQL), document databases (MongoDB, CouchDB), and key-value stores (Redis).

WORK EXPERIENCE
June 2014 – July 2021   rOpenSci, Co-Founder
rOpenSci is a non-profit developer collective whose mission is to facilitate reproducible research.
- Along with rest of leadership team, deciding on vision and focal areas
- Maintained dozens of R packages to help researchers do more reproducible research.
- Built and maintained APIs using Ruby for two widely used sources of data for biologists. Proficiency in APIs in Python.
- Developed the infrastructure for software review, served as an editor and reviewer for R packages submitted to rOpenSci.
- Authored hundreds of technical blog posts on the rOpenSci blog (https://ropensci.org/author/scott-chamberlain/) and my personal blog (https://recology.info/). Compiled and distributed the rOpenSci newsletter (https://ropensci.org/news/) for 6 years. Co-authored a book on HTTP testing in R (https://books.ropensci.org/http-testing/).

June 2016 – Jan 2021   Open Knowledge Maps, Backend Volunteer Contributor
Open Knowledge Maps (https://openknowledgemaps.org/) is a visual interface to the world's scientific knowledge.
- Worked with a team using agile processes to maintain integration with many 3rd party APIs

May 2012 – April 2014   Postdoctoral Scholar, Simon Fraser University
Department of Biological Sciences
- Built and curated a large SQL database (millions of rows) containing data from a network of dozens of researchers in CANPOLIN (Canadian Pollination Initiative).
- Synthesized data from CANPOLIN to answer questions about pollinator communities, leading to three peer-reviewed papers.

EDUCATION
2012   Ph.D., Ecology & Evolutionary Biology, Rice University
2009   M.A., Ecology & Evolutionary Biology, Rice University
2003   B.S., Biological Sciences, California State University, Chico