

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 – present **rOpenSci, Co-Founder and Technical Lead (Computational and Data Science Research Specialist at UC Berkeley)**

rOpenSci is a non-profit developer collective whose mission is to facilitate reproducible research.

Website: <https://ropensci.org/>

- Along with rest of leadership team, deciding on vision and focal areas
- Maintaining dozens of R packages to help researchers do more reproducible research.
- Building and maintaining 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://openknowledge.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