

Self-starting and enthusiastic data scientist with 10 years of experience working with scientific data in a variety of coding languages, designing **reproducible quality control, analysis, and visualization workflows**, and sharing results in a range of written and oral formats. Effective at carrying out individual work while also excelling in collaborative team settings and big-picture project management. A bright, adaptable worker who can **successfully lead or assist** on dynamic projects.

## Expert

R · Git · GitHub · Teaching  
Markdown · QA/QC · Quarto  
Data Visualization · GLMs  
R Package Development

## Advanced

Shiny · Project Management  
Website Development  
Multivariate Statistics  
Spatial Data · Documentation

## Skills

## Intermediate

Python · HTML  
Text Mining · Affinity Publisher  
Team Management

## Basic

SQL (pgAdmin) · SCSS  
CSS · Bash · Survey Design  
Machine Learning (MaxEnt)  
Affinity Designer

### **Data Scientist | National Center for Ecological Analysis & Synthesis (NCEAS)**, Santa Barbara CA | Feb. 2022 – Present

- Collaborated with 180+ researchers in 17 working groups to meet data/code-related needs
- Made and maintained documentation on best practices for collaborative teams in a website ([lter.github.io/scicomp](https://lter.github.io/scicomp))
- Created workshops on code collaboration with GitHub, website design with Quarto, and interactive Shiny apps
- Managed separate projects from start to finish simultaneously with agile project management principles

### **Technical Skills Instructor | Long Term Ecological Research (LTER) Network**, Santa Barbara CA | June 2024 – Present

- Recruited design team members, co-instructors, panelists, and guest instructors
- Articulated project management guidelines (internal and external) for all facets of course design
- Created a website to host all course materials in a free and transparent venue ([lter.github.io/ssecr](https://lter.github.io/ssecr))
- Lead the design of 7 (of 15) modules personally and collaborated on remaining modules
- Facilitated biweekly class sessions for the 27 students in the 2024 cohort
- Organized the effort around revising and updating the course materials for the 2026 cohort

### **Visiting Data Scientist | La Kretz Research Center (LKC)**, Santa Barbara CA | Sep. 2025 – Dec. 2025

- Created a GitHub Organization to house code workflows for data wrangling and analysis ([github.com/sedgwick-lkc](https://github.com/sedgwick-lkc))
- Trained LKC staff in using GitHub to collaboratively develop and maintain reproducible code
- Overhauled WordPress website to highlight signature fire ecology datasets collected at Sedgwick Reserve
- Wrote custom R functions for quality assurance and initial data processing from a variety of input formats

### **R / Python Bilingualism Website Creator | Self**, Remote | Jul. 2023 – Present

- Self-taught Python through the lens of ‘translating’ R operations into comparable Python code
- Designed a website to store created bilingualism materials ([njlyon0.github.io/collab\\_bilingualism](https://njlyon0.github.io/collab_bilingualism))
- Designed a range of increasingly complex operations and grouped those pages thematically
- Wrote extensive contributing guidelines for crediting collaborators

### **Adjunct Professor | Stonehill College**, Easton MA | May – July 2023 & 2024

- Designed a course introducing fundamental data science skills to life sciences undergraduates
- Helped students create professional portfolios of their strongest in-class work hosted on GitHub
- Offered holistic feedback on student work and encouraged iterative revision processes
- Created website to openly share course slide decks, rubrics, and policy documents ([njlyon0.github.io/teach\\_r-for-biologists](https://njlyon0.github.io/teach_r-for-biologists))

### **Data Scientist & Network Administrator | Herbivory Variability (HerbVar) Network**, Lansing MI | Aug. 2021 – Feb. 2022

- Designed a QC workflow for standard data collected by 200+ collaborators from more than 30 countries
- Wrote a data management plan to standardize post-QC data handling and distribution
- Revised the set of protocols used to onboard new collaborators on field methodologies and data entry processes
- Created a Shiny app for preliminary data QA/QC and standardized data submission