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## Data Scientist & Scientific Communicator

**Self-starting and enthusiastic** communicator with 7+ years of experience conducting ecological research in a variety of coding languages, designing **quality assurance and control workflows**, and presenting results in a range of written and oral formats. Effective at carrying out individual work while also excelling in collaborative team settings. A bright, adaptable worker who can **successfully lead or assist** on dynamic and ongoing projects.

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### Skills

R · Git · Quarto · Microsoft Office · R Shiny · **R Package Development** · Data Visualization · Team Management · Zoom  
**Public Speaking** · WordPress · Survey Creation · Text Mining · Spatial Data Wrangling · **Experimental Design** · Methods Development  
SQL · Climate Data Management · **Scientific Writing** · Science Communication · Species Distribution Modeling · **Teaching**  
Generalized Linear Mixed Effect Models · **Workshop Development** · GitHub Project Management · R Package Creation

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### Professional Experience

#### **Data Analyst | LTER Network Office, Santa Barbara CA | (Feb. 2022 – Present)**

- Worked with 91 members of 5 LTER working groups to meet their data synthesis-related needs
- Taught workshops on the `tidyverse` R packages and reproducible coding with Git and GitHub
- Authored the R package `lterpalettefinder` and wrote a companion R Shiny app to demonstrate it
- Wrangled spatial data from a variety of sources (including lithology, land cover, etc.)

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

- Coded a quality assurance pipeline in R for a database collected by 200 collaborators based in more than 30 countries
- Designed a data management plan to standardize post-collection data handling and distribution across the Network
- Revised the set of protocols used to train collaborators before and during data collection
- Created an R Shiny app for preliminary quality assurance and control followed by data submission

#### **Biology Teaching Assistant | University of Georgia, Athens GA | (Aug. 2020 – May 2021)**

- Facilitated students in honing their scientific observation, experimental design, and writing skills
- Designed instructional content for 25 weeks of labs that emphasized critical thinking skills across two semesters
- Provided thorough and constructive written feedback on lab reports as well as on quiz-style assignments
- Aided students in identifying their first independent research question and implementing the subsequent experiment

#### **Grassland Restoration Ecologist | Iowa State University, Ames IA | (May 2016 – May 2019)**

- Surveyed butterflies, wild bees, and flowering plants in remnant and restored prairie
  - Performed quality assurance and control (QA/QC) on field-collected data collected by multiple observers
  - Interviewed, hired, and managed teams of research technicians for multiple field seasons
  - Wrote protocols for field data collection and database management
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### Selected Products

Lyon N (2022). lterpalettefinder: Extract Color Palettes from Photos and Pick Official LTER Palettes. R package version 1.0.0.

Gaynor, K. et al. **Ten Simple Rules to Cultivate Belonging in Collaborative Data Science Research Teams**. 2022. PLOS Computational Biology

Lyon, N.J., De La Rosa, G., Guerrero, F. **Sharing Science with R Shiny Apps**. 2022. LTER All Scientists' Meeting, Monterey, CA

Lyon N (2022). dndR: Dungeons and Dragons Functions in R. R package version 1.0.0.

Lyon, N.J., Chen, A., Brun, J. **Coding with the Tidyverse**. 2022. LTER Network Office, Santa Barbara, CA

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### Education

**Master of Science**, Ecology and Evolutionary Biology – Iowa State University, Ames IA

**Bachelor of Science**, Biology – University of Puget Sound, Tacoma WA