

Gage Rowden, M.S.

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Summary

Data scientist with a strong background in statistical analysis, bioinformatics, and data visualization. Experienced in automating workflows, developing R packages, and working with large-scale experimental datasets. Passionate about leveraging data-driven insights to solve complex problems in biotechnology and research.

Technical Skills

Programming & Data Analysis

- R (Tidyverse, package dev)
- Python (pandas, NumPy)
- Version control (Git, GitHub)
- GitHub Actions
- SQL
- Shiny
- Data cleaning & preprocessing
- Data pipeline development
- Data Reporting (Quarto, knitr)
- Visualization (ggplot2)
- High throughput data analysis
- Statistical modeling
- Algorithm optimization
- Regular Expressions
- Bash
- \LaTeX
- Reproducible research
- Experimental design & analysis

Interpersonal

- Collaboration
- Problem solving
- Active listening
- Effective communication
- Agile learning
- Public speaking

Work Experience

Lead Technical R&D Scientist, Priogen Corporation — St. Paul, MN Jan 2024–present

- Designed and optimized **data analysis workflows** in **R** to efficiently process high-throughput datasets.
- Developed custom **visualizations** and reports using **Quarto** to communicate results to clients and stakeholders.
- Integrated **version control** across all projects, ensuring **reproducibility** and streamlined **collaboration**.

Researcher IV, MNPRO, University of Minnesota — St. Paul, MN Aug 2022–present

- Developed an **R package** for internal and open-source use, ensuring **CI/CD** and **CRAN compliance**.
- Implemented **data pipelines** to process, clean, and analyze experimental data, reducing processing time by **99%**.
- Designed an accession system for **managing large-scale laboratory inventory**, improving tracking efficiency.

Core Competencies

- Statistical modeling | Data visualization | Workflow automation
- High-throughput data processing | Bioinformatics pipelines | Experimental data management
- CI/CD for reproducible research | SQL database management

Projects

quicR Library

github.com/gage1145/quicR

- Developed an R package for the extraction, manipulation, and analysis of RT-QulC data.
- Technologies: R, GitHub Actions

Prion Bot

github.com/gage1145/prion_bot

- Developed a Discord bot that retrieves prion-related articles from NCBI and posts them to a Discord server.
- Technologies: Python

Musical DnD

github.com/gage1145/Musical-DnD

- Designed a Shiny app for randomized music composition parameters, utilizing weighted probability distributions.
- Technologies: R, Shiny

Education

Texas Tech University, B.S. in Biology

Sep 2011–May 2016

Texas Tech University, M.S. in Biotechnology

Sep 2016–May 2018