

# Andy Teucher

*R and Data Science Consulting*

## Highlighted Qualifications

- Advanced skills in data management, analysis and visualization
- Extensive experience in scientific data visualization and written communication for technical and lay audiences
- Expert R programmer
- Statistical inference and modelling (including GLMs, mixed effects models, GAMs)
- Proficient at creating dynamic reproducible reports with RMarkdown and Quarto
- Strong Geospatial data science skills (R, PostGIS, QGIS)
- Extensive experience developing and teaching package development and data science workshops
- Active and passionate open data, open source and reproducible data science community leader
- R Shiny application development and deployment
- Advanced skills in R Package development and publishing packages to CRAN
- Familiarity with modern software development practices and tools
- Extensive experience using version control and open source collaboration using Git and GitHub
- Analytical database development & management including Postgres, SQLite, DuckDB
- Intermediate Python
- Intermediate web development (HTML, CSS, JavaScript)

## Professional Experience

January 2023 - **Package Developer Educator**, *Posit Software, PBC*, Remote (Victoria, BC).

- June 2023
- Develop curriculum for teaching R package development
  - Write blog posts for the package development community on the Tidyverse blog
  - Contribute to development of Posit R packages
  - Coordinate team package maintenance
  - Manage, edit, and create package cheatsheets and website

July 2022 - **Data Science Manager**, *BC Stats, British Columbia Ministry of Citizen Services*, Victoria, BC, CA.

January 2023

- Lead a diverse team of data scientists, ensuring they have the time and resources they need
- Supervise and coordinate data scientists using both R and Python
- Coordinate projects, allocate staff resources, and manage client relations
- Coordinate development of data science courses and workshops
- Provide technical and professional leadership, mentorship, and advice

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Sept 2021 - **Senior Data Scientist**, *BC Stats, British Columbia Ministry of Citizen Services*, Victoria, BC, CA.  
July 2022

- Work with clients to develop analytical plans for data science projects
- Use R with large datasets (billions of rows) to create robust, reproducible analytical pipelines
- Perform statistical modeling, analysis, and visualization
- Develop R packages to enhance efficiency of data analysis tasks and ensure reproducibility
- Develop and teach data science workshops to BC Government employees
- Provide leadership and advice on data science tools, methods, infrastructure and data management
- Present findings to clients and executive in written documents and presentations

Nov 2011 **Unit Head (2019-2021) & Environmental Data Scientist (2011-2019)**, **State of Environment Reporting**, *British Columbia Ministry of Environment*, Victoria, BC, CA.  
Sept 2021

- Provide leadership, financial planning and oversight, and project management
- Mentor and teach data analysis and R programming to staff
- [Develop and maintain R packages](#) to support indicator development and reproducible workflows
- Develop & teach data science courses to support data science & programming skills development
- Lead efforts for reproducible, open source data science and open data in B.C. Government
- Perform data analysis and statistical modeling on many environmental topics
- Create public-facing static & interactive visualizations to communicate results using R Markdown & Shiny

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## Data Science Teaching and Training

### Workshops & Learning Content Development.

- Course developer and instructor for R Package development workshop, posit conf, Chicago (September 2023)
- Course developer and instructor for R Package development workshop, Camosun College (August 2023)
- Course developer and lead instructor for several '[Introduction to R](#)' workshops for BC Public Servants
- Co-developer and instructor for '[Introduction to Geospatial analysis with R](#)' workshop in BC Ministry of Environment
- Instructor for 'Introduction to Git and GitHub' for BC public servants
- Regular contributor to many online learning platforms and forums (e.g., StackOverflow, internal BC government social platforms, wikis, GitHub issues and pull requests)

### Certified instructor for [Software Carpentry and Data Carpentry](#).

- Contributor to several Software Carpentry and Data Carpentry lessons
- R, Shell, and Git instructor at University of Victoria Software Carpentry workshop (Dec 2016)

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## Education

2003 - 2006 **Master of Science (Ecology)**, *University of Calgary*, Calgary, AB, CA.

1997 - 2001 **Bachelor of Science (Zoology)**, *University of Calgary*, Calgary, AB, CA.

### Additional Training

- 2022 Certified Scrum Product Owner Training. Scrum Alliance (Alluvial Consulting)
- 2021 Brene Brown's 'Dare to Lead'. Rick Thomas
- 2019 Enhancing Emotional Intelligence for Workplace Success. Justice Institute of British Columbia
- 2018 Advanced R Workshop. Charlotte Wickham
- 2018 Lego4Scrum Workshop. BC Public Service
- 2017 rOpenSci Unconf (<https://unconf17.ropensci.org/>). rOpenSci

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- 2017 Collaborative Conflict Resolution. Justice Institute of British Columbia
- 2016 Presenting Data and Information. Edward Tufte
- 2016 Fierce Conversations. BC Public Service Agency
- 2015 Advanced Trend Detection Analyses in R. Ghement Statistical Consulting Ltd
- 2014 Bayesian Analysis in R. Poisson Consulting
- 2014 Software Carpentry Instructor Training. Software Carpentry Foundation
- 2014 Software Carpentry Bootcamp. Software Carpentry Foundation
- 2013 Computing for Data Analysis. Coursera
- 2012 Telling Stories with Data. Tye Master Class
- 2011 Modeling patterns and dynamics of species occurrence workshop. Darryl MacKenzie, Proteus Wildlife Research Consultants

## Selected R Packages

### CRAN

1. Teucher, A., & Russell, K. (2023). *rmapshaper: client for 'mapshaper' for 'geospatial' operations*. <https://CRAN.R-project.org/package=rmapshaper>
2. Teucher, A., Albers, S., & Hazlitt, S. (2023). *bcdata: search and retrieve data from the bc data catalogue*. <https://CRAN.R-project.org/package=bcdata>
3. Teucher, A., Albers, S., & Hazlitt, S. (2023). *bcmeps: map layers and spatial utilities for british columbia*. <https://CRAN.R-project.org/package=bcmeps>
4. Wickham, H., Bryan, J., Barrett, M., & Teucher, A. (2023). *usethis: automate package and project setup*. <https://CRAN.R-project.org/package=usethis>
5. Chamberlain, S., Teucher, A., & Mahoney, M. (2023). *geojsonio: convert data from and to 'geojson' or 'topojson'*. <https://CRAN.R-project.org/package=geojsonio>
6. Teucher, A. (2019). *lutz: look up time zones of point coordinates*. <https://CRAN.R-project.org/package=lutz>

### GitHub

1. Teucher, A. (2022). *canwqdata: get canadian long-term water quality monitoring data*. <https://github.com/bcgov/canwqdata>
2. Teucher, A., & Harker, K. (2022). *rems: get data from british columbia's environmental monitoring system*. <https://github.com/bcgov/rems>
3. Albers, S., Teucher, A., & Robert, B. (2022). *dipr: provide functions to efficiently import sre data*. <https://github.com/bcgov/dipr>
4. Teucher, A., Hazlitt, S., & Albers, S. (2020). *bcgovr: set up of 'bcgov' r projects & packages*. <https://github.com/bcgov/bcgovr>
5. Teucher, A., Verma, A., LaZerte, S., & Hazlitt, S. (2019). *rcaaq: tools to implement caaq analysis for air quality*. <https://github.com/bcgov/rcaaq>

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