



Mark V. Murphy

Data Analyst

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About me

I have >10 years' experience in processing, analysing, and communicating data, gained from education, employment, PhD research, and self-directed projects and training. I have a background in science (ecology), but with increasing interest and expertise in statistics, programming (R), and data science in recent years. I also have developing interests in AI, health, and finance, and in the role of technology in driving rapid societal change. I have a lifelong commitment to learning and development, and generally strive for high quality in everything I do. I am currently looking to apply my skills and experience to new challenges and a new role – ideally involving meaningful and impactful data-driven projects, products, and services. For further details on my previous experience, skills and outputs, see my longer-form (academic) CV.

Skills

Existing:

- Data Processing and Management (spreadsheets/CSVs, cleaning, etc.)
- Statistics and Modelling (regression, GLMMs, SEMs, validation, etc.)
- Data Visualisation and Plotting (e.g. {ggplot2})
- Programming (R – analysis, functions, methods, optimisation, etc.)
- Package Development and Version Control (R, Git/GitHub)
- Code Documentation and Examples/Testing (R Markdown, Roxygen2)
- Writing and Editing (vignettes, reports, theses, publications)
- Communication (presentations, media, outreach)
- Teamwork (fieldwork, group projects, workshops, collaborations)
- Project Management (independent research, timelines, etc.)

Learning:

- Machine Learning (regression, classification, clustering, etc.)
- Web/Document Styling (CSS, HTML)
- Dashboards/Web Apps (R Shiny, Tableau)
- Programming (Python, SQL)

Projects

- This CV (2021–): compiled using the R package {vitae}, and R Markdown, YAML, Pandoc, and LaTeX. Updated regularly.
- Machine Learning code (2021–): Python and R scripts from online Udemy course compiled into a single R {bookdown} project for easy reference. Experimental.
- Fork of R package {rscdrio} (2021–): extends RStudio VS Code dark theme (CSS) to Options menu and other IDE elements, R Markdown documents, and {pkgdown} and {bookdown} websites. Experimental.
- R package {dissCqN} (2021–): compositional dissimilarity for species assemblages or interaction networks. v0.1.0.
- R package {semEff} (2019–): effects and confidence intervals for 'piece-wise' structural equation models (SEM). v0.6.0. CRAN downloads: 24K.
- Research (2018–): contributing statistical, programming, editing, and domain expertise to ecological research projects (University of Western Australia, University of Leeds; publications pending).

Experience

2018–21	Writing, Programming, Projects, Career Change (incl. breaks)	UK
	Self-Directed	
2016–18	Research Assistant (Data Analysis, Bioinformatics)	Perth, Australia
	University of Western Australia	
2016–16	Lab Demonstrator (Student Assistance, Supervision)	Perth, Australia
	University of Western Australia	
2011–11	Research Assistant (GPS/GIS, Entomology)	Perth, Australia
	University of Western Australia	

Education

2012–16	PhD (Ecology)	Perth, Australia
	The University of Western Australia	
2007–08	MSc (Biodiversity and Conservation)	Dublin, Ireland
	Trinity College Dublin	
2001–05	BA (Zoology)	Dublin, Ireland
	Trinity College Dublin	