



Mark V. Murphy

Data Analyst

November 2021

- Bradford, UK
- murphymv@gmail.com
- [murphy_mv](https://twitter.com/murphy_mv)
- [murphymv](https://github.com/murphymv)
- [murphymv](https://www.linkedin.com/in/murphymv)

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 (esp. cryptocurrencies), 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 Collection and Management (spreadsheets/CSVs, messy data, etc.)
- Analysis and Modelling (regression, GLM(M)s, SEMs, validation, etc.)
- Visualisation and Plotting (e.g. ggplot2)
- Programming (R – functions, methods, iteration, parallelisation, etc.)
- Package Development and Version Control (R, Git/GitHub)
- Code Documentation and Vignettes (R Markdown, Roxygen2)
- Writing and Editing (reports, theses, publications)
- Communication (presentations, media, outreach)
- Teamwork (fieldwork, group projects, workshops, collaborations)

Learning:

- Machine Learning
- Web/Document Styling (CSS, HTML)
- Dashboards/Web Apps (Shiny, Tableau)
- Programming (Python, Julia, SQL)

Projects

- This CV (2021–): compiled using R Markdown, YAML, Pandoc, and LaTeX.
- Forked R package rscodeio (2021–): extends RStudio VS Code dark theme to menus and other IDE elements, R Markdown documents, pkgdown 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 structural equation models (SEM). v0.6.0. CRAN downloads: 22K.
- Bioinformatics (2019–): editing and submission of hundreds of digital DNA sequences and metadata to the Barcode of Life Data System. Published subset here; more pending research publications.
- Research (2018–): contributing statistical, 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 (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	