



# Mark V. Murphy

## Data Analyst

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Leeds, UK

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## About me

I have almost 20 years' experience in data management, analysis, and communication – gained from education, employment, PhD research, and self-directed projects and training. My background is in the biological sciences, but with increasing interest and expertise in statistics, programming, data science, AI, and health sciences in recent years. I have a lifelong commitment to learning and development, and generally strive for high quality in everything I do. I enjoy applying my skills and experience to new challenges, ideally involving meaningful and impactful data-driven projects, products, and services. For additional details of my previous experience, skills and outputs, see my longer-form (academic) CV.

## Skills

- Databases/Data Management (SQL Server, Cosmos DB, OneLake, Excel)
- Statistics/Machine Learning (R {tidymodels}, Synapse Data Science)
- Data Visualisation and Plotting (Power BI, R {ggplot2})
- Dashboards and Reports (Power BI)
- Programming (R, SQL, M, DAX)
- Code Documentation and Testing (scripts, notebooks, web)
- Library Development (R)
- Source Control (Git, GitHub, Azure DevOps)
- Cloud Storage and Computing (Azure, MS Fabric, Apache Spark)
- Web and Document Styling (CSS, HTML, YAML)
- Writing and Editing (documentation, reports, publications)
- Communication and Teamwork
- Project Management
- Stakeholder Engagement
- Business Processes

## Technical Projects

- This CV (2021–): compiled using the R library {vitae}, via R Markdown, YAML, Pandoc, and LaTeX.
- ML Course Documentation (2021–): Python and R scripts from a Udemy course collected in a single 'book' format (R {bookdown} project) for easy reference. Experimental.
- R Library {rscodeio} (fork) (2021–): extension of an RStudio dark theme (CSS) to additional IDE elements, R Markdown documents, and websites (R {pkgdown}, {bookdown}). Experimental.
- R Library {dissCqN} (2021–): compositional dissimilarity for species assemblages or interaction networks. v0.1.0. CRAN downloads: 6K.
- R Library {semEff} (2019–): effects and confidence intervals for 'piece-wise' structural equation models (SEM). v0.6.1. CRAN downloads: 90K.

## Experience

2022-23	Data Analyst Optima Health	Leeds, UK
2018-22	Research Writing/Technical Projects/Retraining Self-Directed	Leeds, UK
2016-18	Research Assistant: Bioinformatics/Data Analysis University of Western Australia	Perth, Australia
2016-16	Lab Demonstrator: Student Assistance/Supervision University of Western Australia	Perth, Australia

## Education

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