



This is to certify that **Edwin David Yáñez Orquera** has successfully completed the following modules:

### Stats from Scratch

Getting started with R	2025-01-28
Troubleshooting in R	2025-02-13
Coding etiquette	2025-02-14
Basic data manipulation	2025-02-14
From distributions to linear models	2025-02-20
Beautiful and informative data visualisation	2025-02-28

### Wiz of Data Viz

Beautiful and informative data visualisation	2025-02-28
Efficient data manipulation	2025-02-28
Data visualisation 2	2025-03-02
Spatial analysis	2025-03-05
Getting started with Markdown reports	2025-03-05
Getting started with Shiny interactive web apps	2025-03-06

### Mastering Modelling

Efficient data manipulation	2025-02-28
Loops and functions	2025-03-15
Intro to model design	2025-03-20
Ordination	2025-04-20
Mixed effects models	2025-04-27
Meta analysis and mixed models with MCMCglmm	2025-05-13
Generalised linear models in Stan	2025-05-18

**Stats from Scratch** is our introduction to R course stream. It teaches good coding practice, and users will have gained confidence in importing and manipulating data. They can use linear regression techniques and present statistical results professionally.

**Wiz of Data Viz** is a course stream dedicated to data visualisation. The user should be able to communicate findings in a visually engaging and informative manner, perhaps including communication tools such as Markdown reports and interactive apps.

**Mastering Modelling** is our most advanced course stream, focusing on developing statistical models based on sound research questions and hypotheses. The user will have been exposed to a variety of data types and modelling techniques, with an introduction to the Bayesian framework.

## Challenges

The course also offers three case-study challenges in which the user must work independently with a range of open data to answer research questions. Edwin David Yáñez Orquera completed:

- Temporal changes in red squirrel abundance: a data manipulation and analysis challenge on population data
- Native woodlands in Scottish nature reserves: a challenge on spatial data manipulation and visualisation
- Analysing seabird breeding success: an advanced data analysis challenge

*Issued by the Coding Club team on 20 May 2025*

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A fun and supportive place to  
learn statistics and programming