

Rhys Maredudd Davies

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Personal profile

Former GB athlete with a strong motivational drive to innovate and perform at an elite level. Experienced in survey design, data collection, data processing, analysis and distributing insights of analysis through presentations and data visualisation methods. Leadership experience as an international athlete and international coach/team leader. Member of the Performance Wellbeing Group of British Canoeing as a volunteer consultant.

Work History

University of Edinburgh, Edinburgh – *PhD candidate*
September 2020 – Present

Researching for a clinical psychology PhD, investigating the mental health of elite athletes, and retired elite athletes. Drawing on the experience of athletic and coaching career to make an impact. Research involves networking, designing, and distributing surveys, data processing, data analysis/visualisation, problem solving and presenting findings.

Centre of Data, Culture & Society, University of Edinburgh – *Training Fellow*
September 2023 – Present

As a training fellow, I educate and train other humanities and social science researchers to apply data science methods to their own research. I have designed and led courses on spreadsheet management, introduction to R, data visualisation, and handling missing data.

Scottish Government, Edinburgh – *Emission Trading Scheme Research Intern*
July 2023 – September 2023

Tasked with researching and examining the economic, environmental, and political impact of the UK Emission Trading Scheme (UK ETS) in Scotland. Role included policy advise, ETS price trend analysis, communicating global trends, investigating ETS linkage, and examining and communicating the mechanisms by which ETS reduces emissions. During role, I worked with policy makers, analysts and stakeholders from across the UK home nations.

Skills

Data analysis methods for both quantitative and qualitative analysis.

Data visualisation to produce clear and informative data images.

Coding in R, Python and HTML.

Analysis in R, SPSS, Power BI, Tableau and excel.

Team leadership in elite sport.

Data processing using R packages such as Tidyverse, MICE, ImputeTS.

Designing surveys and collecting data through apps such as Qualtrics.

Policy advising.

Producing reports, dashboards, and presentations.

Experience with large datasets.

Course designing.

Awards

IntroAP – Introduction to Academic Practice in Teaching.

P2i – Empowering researchers to innovate certificate 2021.

University of Edinburgh, Edinburgh – Equality, Diversity and Inclusivity data analyst.
November 2022 – January 2023

This was a 6-week project to collate, compare and present the findings of 3 years of Covid survey within the School of Biological Sciences at the University of Edinburgh. Project needed a clear, concise, and reproducible coding to ensure future projects could be easily updated. Final outputs were created using Markdown, so that an interactive Html output could be used by stakeholders.

University of Edinburgh, Edinburgh – University Tutor
January 2021 – Present

As a tutor, I can apply the skills I developed as a coach to an academic setting. In each tutorial, I must plan and lead a session that meets the criteria set by the module leader. Updating knowledge and preparing for tutoring and using Socratic questioning to help guide learning for students. Responsibilities also include marking. Tutored in biological psychology, individual differences, applied developmental psychopathology, and psychological research methods (data management and analysis).

Performance Wellbeing Group, British Canoeing – Volunteer Consultant
January 2021 – Present

I advise British Canoeing on their athlete selection and UK Sport program funding policies. The aim of the group is to promote and protect the wellbeing of current and future athletes within British Canoeing. Role uses athletic and academic experience to assist in policy making.

Unitemps, Edinburgh – Digital Research Ambassador Intern
June 2022 – August 2022

Explored how interpretations of diversity relates to performance within an elite team sport setting. Analysed 10 years of official FIFA data, across 3 different datasets, and collecting web data on Premier League performance and transfer league budgeting. This provided experience with large data. LASSO regression and ANOVA were used for analysis. Data visualisation conducted through ggplot in R.

Canoe Northern Ireland, Nottingham – Lead technical Coach
November 2017– April 2019

Role involved organising and planning travel arrangements for international races and strong leadership skills. Collected and presented training/racing data to athletes and supporting coaches to review performance. Collaborated with sports psychologists and S&C coaches to ensure optimal race preparation for the athletes. Role also included being team leader for the Irish Canoe Slalom team for both the European Canoe Slalom Championships and the first World Cup event of the 2019 season.

DataCamp Data Analyst in R
2019

DataCamp Data Scientist in R
2019

Mid-1st in Advanced Stats for
Social Sciences module 2019

Civic Engagement in
Psychology (Level 5) 2018

7th Place at Deep Creek World
Championships 2014

Bronze team medal World
Championships 2013

Bronze team medal World
Championships 2011

Languages

Fluent/native in Welsh and
English.

Level 3 French in the NTU
University Language Program
(ULP).

Other

UK Coaching Safeguarding and
Protecting Children certificate
(2020)

Outdoor First Aid (2020).

Mental Health First Aid (2018).

Education

University of Edinburgh,
Doctor in philosophy (PhD)
September 2020 – Present –
PhD Clinical Psychology

Nottingham Trent University,
Bachelor's in science (Hons) –
1st
October 2016 – July 2019
BSc (H) in Psychology

Publications:

- Davies, R. M., Knoll, M. A., & Kyranides, M. N. (2023). A moderated mediation analysis on the influence of social support and cognitive flexibility in predicting mental wellbeing in elite sport. *Psychology of Sport and Exercise*, 102560.

Github Projects:

- <https://github.com/DCS-training/Good-Data-Visualisation-with-R>
- <https://github.com/DCS-training/Much-ado-about-nothing-missing-data-in-research>
- <https://github.com/DCS-training/IntroToRAndRStudio>
- https://github.com/Rhys-Maredudd/Adaptively_Maladaptive.github.io
 - https://rhys-maredudd.github.io/Adaptively_Maladaptive.github.io/

Research Skills:

- Creating interactive computer based experiments with OpenSesame.
- Qualitative interviewing.
- Analysis using R, AMOS, and SPSS.
- Application of psychological theories to qualitative and quantitative data.
- Generating interactive analysis outputs with R-markdown.
- Working with missing data.

Conferences and presentations:

- Poster Presentation at British Psychology Society – Division of Sport Psychology Conference (2023). Poster on “Adaptively Maladaptive – emotion regulation in elite sport”.
- Attended the Edinburgh Mental Health Conference (2023).
- Attended the Radar Data and AI Literacy Conference (2023).
- Presented at HiSS PGR conference (2023) - “Adaptively Maladaptive – emotion regulation in elite sport”.
- Attended the Edinburgh Mental Health Conference (2022).
- Poster Presentation at the European Network of Young Specialists in Sport Psychology (2022).
- Presentation and Poster Presentation at PGR conference (2022).
- Presentation at PGT conference (2021).

Teaching Experience:

- Biological psychology
- Individual Differences in Psychology.
- Applied Developmental Psychopathology.
- Understanding Data Visualisation.
- Psychological Research Methods.
- Training fellow with the Centre of Data, Culture and Society.

Volunteer positions:

- Country representative with ENYSSP.
- Performance Wellbeing Consultant with British Canoeing.
- Lead Editor at ResearchBow.

Other Qualifications:

- IntroAP – Introduction to Academic Practice in Teaching.
- *P2i – Empowering researchers to innovate certificate 2021.

References:

- Dr Monja Knoll – University of Edinburgh, 0131 503481, monja.knoll@ed.ac.uk.
- Dr Lucia Michelin – University of Edinburgh, lucia.michielin@ed.ac.uk.