

# Charlie Homewood



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## Summary

Recent BSc Psychology with Economics graduate with a strong background in data analysis, research skills and scientific methodology gained from educational and work experiences. I am skilled in using R (programming language) to conduct a variety of analytical techniques. I am passionate to utilise the skills I have developed to provide valuable insights into important questions. **Currently seeking to gain experience in data analysis or data science roles.**

## Skills

R (Proficient)  
Python (Basic)  
SQL (Basic)



## Education

### BSc Psychology with Economics

2019-2023

University of Sussex

Grade: 1st class (Hons)

### Relevant Modules

- Research Dissertation
  - [Conducted computational reproductions of analyses published in peer-reviewed journal articles.](#)
- Quantitative and Qualitative Methods
  - [Conducted an exploratory factor analysis on questionnaire data I collected.](#)
- Perspectives in Psychology
  - Developed a solid understanding of broader scientific issues such as replication/reproducibility, research ethics and philosophy of science.
- Behavioural Economics
  - Developed a strong understanding of cognitive biases in real-world economic behaviour.

### Awards

- The Sage Publications Prize for Outstanding Application of Statistical Methods (2023).
  - "To be awarded for the highest mark for a project that a supervisor has nominated based on outstanding application of statistical methods."

## 💡 Work Experience

[Datacove](#)  
*Data Analyst Intern*  
*July-September 2023*

### *Achievements*

- Created a training course on conducting logistic regressions in **R** to be offered as part of Datacove's portfolio of commercial training courses.
- Wireframed an analysis dashboard (MS PowerPoint and [Kibana](#)) for a client to help them identify and resolve security vulnerabilities in websites in the UK.
- Optimised media mix models in **R** to support clients in understanding how various contributing variables relate to their KPIs, allowing them to make evidence-based decisions in their marketing strategies.

[Mindlab](#)  
*Project Manager (Intern)*  
*July-September 2023*

### *Achievements*

- Designed and produced experimental stimuli for the pilot phase of an internal research experiment seeking to validate and improve [Mindlab's 'Findability' measurement tool](#).
- [Produced a summary report](#) of a project that developed a segmentation method to gain insight into consumer characteristics.
- Helped Mindlab to explore the viability of incorporating 'Social Listening' into Mindlab's series of measurement tools. [This tool is now part of Mindlab's commercial portfolio.](#)

## 📅 Personal Projects

[Making Percentile Radars](#)  
*Ongoing*

Using data from fbref, I'm creating an [analysis dashboard using the Shiny package in R](#) to visualise the performance of male footballers across Europe's top 5 highest ranked divisions.

[F1 Machine Learning](#)  
*Ongoing*

Working with the **Ergast F1 API in Python**, I'm exploring the impact of major regulation changes on the performance of drivers and constructor teams between 1958 to now.