

# Harriet Mason

PHD STUDENT

Monash University, Australia

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## Education

### Doctor of Philosophy (Statistics)

MONASH UNIVERSITY

Melbourne, Australia

2022-Present

### Bachelor of Commerce (Honours)

MONASH UNIVERSITY

Melbourne, Australia

2021

### Bachelor of Economics

MONASH UNIVERSITY

Melbourne, Australia

2018-2021

## Experience

### Teaching Associate

DEPARTMENT OF ECONOMETRICS AND BUSINESS STATISTICS, MONASH UNIVERSITY

Melbourne, Australia

2022-Present

- Independently ran tutorials in statistics and R programming.

### Copy editor

THE R JOURNAL

Melbourne, Australia

2025

- Applied expertise in R and statistical concepts to copy edit peer-reviewed articles for The R Journal, ensuring technical accuracy, clarity, and adherence to academic publishing standards.

### Research Assistant

SCHOOL OF PHYSICS & ASTRONOMY, MONASH UNIVERSITY

Melbourne, Australia

2021-2022

- Collaborated with the Monash University Physics Department to develop metrics that identify abnormal structures in high-dimensional physics data.

### Research Assistant

DEPARTMENT OF ECONOMETRICS AND BUSINESS STATISTICS, MONASH UNIVERSITY

Melbourne, Australia

2020-2021

- Authored educational blog posts to support student learning in Introduction to Machine Learning.

## Research

### SOFTWARE

- 2025 **ggdibbler**: Author and Maintainer - Extends ggplot2 to allow random variable inputs.  
<https://harriet-mason.github.io/ggdibbler/>
- 2024 **cassowaryr**: Author and Maintainer - Scagnostic calculations in R  
<https://numbats.github.io/cassowaryr/>

### WORKING PAPERS

- Mason, H., Lee, S., Laa, U., & Cook, D. (2026). Teaching computers to see patterns in scatterplots with scagnostics. *Revise and Resubmit, The R Journal*. [github.com/harriet-mason/paper-cassowaryr](https://github.com/harriet-mason/paper-cassowaryr)
- Mason, H., Cook, D., Goodwin, S., Tanaka, E., & Vanderplas, S. (2027). The noisy work of uncertainty visualisation research. *Invited Paper, Annual Reviews of Statistics and Its Applications*. <https://arxiv.org/abs/2411.10482>

## Teaching and Supervision

### TEACHING

- 2022-2025 **ETC3250/ETC5250**: Introduction to Machine Learning (Monash Clayton)
- 2022 **ETC3580/5580**: Advanced Statistical Modelling (Monash Clayton)

## WORKSHOPS

- Sep. 2025 **Visualising Uncertainty (Instructor)**, WOMBAT, Australia  
<https://wombat2025.numbat.space/program/tutorials/LDTUU8.html>
- Oct. 2024 **Creating Effective Data Plots (Student Helper)**, WOMBAT, Australia  
[https://wombat2024.numbat.space/tutorial\\_PM3.html](https://wombat2024.numbat.space/tutorial_PM3.html)
- Dec. 2023 **Optimisation in Python (Student Helper)**, WOMBAT, Australia  
<https://wombat2022.numbat.space/tutorial/jess.html>

## SUPERVISION

- 2022 **Google Summer of Code:** Co-supervisor  
Supervised the development of the 'tRiad' package for Delauney Triangulation in R

## Presentations

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### REGULAR TALKS

- |      |  |                     |
|------|--|---------------------|
| 2025 | Visualising Uncertainty for Holistic Insights        | ASC                 |
| 2025 | Visualising Uncertainty with ggdiabler               | WOMBAT              |
| 2025 | Visualising Uncertainty with ggdiabler               | useR!               |
| 2024 | The Noisy Work of Uncertainty Visualisation Research | AMSI Winter School  |
| 2023 | Teaching Computers to See Patterns in Scatterplots   | R Ladies, Melbourne |
| 2022 | Teaching Computers to See Patterns in Scatterplots   | useR!               |

### POSTERS

- |      |  |          |
|------|--|----------|
| 2023 | Communicating Noise and Signal             | ASC      |
| 2023 | Plotting Apples, Oranges and Distributions | IEEE VIS |

## Awards & Scholarships

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### AWARDS

- |      |                                      |                    |
|------|--------------------------------------|--------------------|
| 2025 | Di Cook Award                        | SSA                |
| 2025 | Honourable Mention, EJG Pitman Prize | ASC                |
| 2025 | Prestigious Conference Award         | Monash University  |
| 2024 | Best Talk                            | AMSI Winter School |
| 2023 | People's Choice Poster Award         | ASC                |
| 2023 | Finalist, Visualise Your Thesis      | Monash University  |

### SCHOLARSHIP & FUNDING

- |           |                           |      |
|-----------|---------------------------|------|
| 2022-2025 | Zema Energy Scholarship   | AEMO |
| 2024      | Winter School Scholarship | AMSI |
| 2023      | Travel Grant for ASC      | SSA  |

## Service

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### Committee Member

Melbourne, Australia

R-LADIES

2025-Present

- R-Ladies exists to promote gender diversity in the R community. As a committee member, I help organise and promote the talks and events.

## Professional Membership

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- 2023 - Statistical Society of Australia