

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 - Scagnostics 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
- 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
- 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

REGULAR TALKS

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|------|--|---------------------|
| 2025 | Visualising Uncertainty for Holistic Insights | ASC |
| 2025 | Visualising Uncertainty with ggdbbler | WOMBAT |
| 2025 | Visualising Uncertainty with ggdbbler | 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

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

Awards & Scholarships

AWARDS

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|------|--------------------------------------|--------------------|
| 2026 | John M. Chambers Award | ASA |
| 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

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

Service

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

- 2023 - Statistical Society of Australia