

# Harriet Mason

PHD STUDENT

Monash University, Australia

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## Education

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### 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

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### 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

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### 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

1. 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)
2. 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

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### TEACHING

2022-2025 **ETC3250/ETC5250**: Introduction to Machine Learning (Monash Clayton)

2022 **ETC3580/5580**: Advanced Statistical Modelling (Monash Clayton)

## WORKSHOPS

Sep. 2025	<b>Visualising Uncertainty (Instructor)</b> , WOMBAT, Australia <a href="https://wombat2025.numbat.space/program/tutorials/LDTUU8.html">https://wombat2025.numbat.space/program/tutorials/LDTUU8.html</a>
Oct. 2024	<b>Creating Effective Data Plots (Student Helper)</b> , WOMBAT, Australia <a href="https://wombat2024.numbat.space/tutorial_PM3.html">https://wombat2024.numbat.space/tutorial_PM3.html</a>
Dec. 2023	<b>Optimisation in Python (Student Helper)</b> , WOMBAT, Australia <a href="https://wombat2022.numbat.space/tutorial/jess.html">https://wombat2022.numbat.space/tutorial/jess.html</a>

## SUPERVISION

2022	<b>Google Summer of Code</b> : Co-supervisor Supervised the development of the 'tRiad' package for Delauney Triangulation in R
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## Presentations

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### REGULAR TALKS

2025	Visualising Uncertainty for Holistic Insights	ASC
2025	Visualising Uncertainty with ggdibbler	WOMBAT
2025	Visualising Uncertainty with ggdibbler	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

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

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

## Service

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### Committee Member

R-LADIES	Melbourne, Australia
• R-Ladies exists to promote gender diversity in the R community. As a committee member, I help organise and promote the talks and events.	2025-Present

## Professional Membership

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2023 -	Statistical Society of Australia
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