

Experiences at Monash University running Carpentries-style workshops

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Monash Genomics and Bioinformatics Platform



Early days in the Bioinformatics Platform

This may be a familiar story.

As a bioinformatician, I would write reports in knitr, and the recipient would sometimes **start learning R!**

2015-

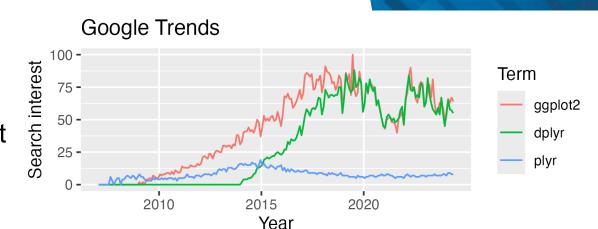
Software Carpentry's lesson materials let us start actively teaching these skills, and gave a format to develop similar workshops with a bioinformatics focus.

What was the best value we could provide in a workshop?

ggplot2, data frames, and later dplyr and %>%
 offered a form of fluency that was not exactly about writing software.

(i.e. we paralleled the development of Data Carpentry)





Data Fluency

2018-

Monash Library launches **Data Fluency** program, lead by Linda Kalejs, building on the Bioinformatics Platform's experience running workshops.

- University wide.
- Counts towards postgraduate students mandatory professional development hours.
- Skill up with Carpentries Train the Trainer workshop.
- Workshops from groups across the university.

Also: Drop-in sessions! Monthly seminars! Book club! Slack site!

2019-

Hire paid "Associate Instructors".

- Train-the-Trainer live coding exercise → part of the interview.
- Frequency of workshops greatly increased.





Adapting to online teaching

2020-

We had generally been doing one day workshops.

A day on Zoom was tiring, two half days preferable.

We now prefer this even for in-person teaching!

Actually simpler to run, as finding rooms has always been a problem.

We've continued with Zoom after the pandemic.

Some of the interaction and connection is lost.



2023 statistics

1309 total attendees at 95 workshops

Intro to R Programming and Tidy Data Analysis in R Linear Models in R Reproducible Research in R Shiny in R	× 12 × 7 × 4 × 2 × 3	
Intro to Python	× 12	
Intro to Power BI	× 11	
Intro to Unix Shell Intro to High Performance Computing Open Source Science with Git and Github	× 4 × 4 × 11	
Intro to REDCap Developing a Health Research Data Diction Intro to Data Linkage	× 10 ary × 9 × 2	
Visualisation and Storytelling	× 4	



Bioinformatics Platform

Adele Barugahare Andrew Pattison **Andrew Perry** Anup Shah David Powell Deanna Deveson Haroon Naeem Hossein Kahrood Kirill Tsyganov Laura Perlaza Michael See Nick Wong Nitika Kandhari Roxane Legaie Sarah Williams Shani Amarasinghe Sonika Tyagi Steve Androulakis

Stuart Archer

People involved

Library

David Groenewegen
Linda Kalejs
Kim Taylor
Deepa Soni
Eva Fisch
Carolyn de Wet
Blair Gatehouse
Beth Pearson
22 Associate Instructors
+ many more

Others

Gin Tan Grischa Meyer Gede Rajeg Patrick Splawa-Neyman Richard Beare Simon Michnowicz Titus Tang + many more

Monash eResearch Monash Helix Platform Monash Data Science and Al Platform

Save the date! Monash is holding a ResBaz November 26-28.







Australian Research Data Commons

We are delighted to announce that this year ResBaz will be hosted by the Monash eResearch Centre from **26-28 November**, **2024** at the Monash Clayton Campus.

We are currently finalising details, so please watch out for coming updates!

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