

Reproducible research: save your time, save your sanity

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## About Me

- ▶ 2012 - Graduated Mechanical Engineering
- ▶ 2012 - Briefly had the job title computational biologist
- ▶ 2013 - Started a medical imaging PhD\*
- ▶ 2015 - Became a Software Carpentry Instructor
- ▶ 2016 - Life gets in the way, had to get a real job (data analyst)
- ▶ 2017 - Started working at a startup as a software developer
- ▶ (soon) - Software Dev @QUT

(Computational) Reproducibility...

Reproducibility is about people

Reproducibility is a spectrum

Why make your work reproducible?

Where to start

It's okay not to be perfect

Continuous incremental improvement, please!

# Invest in your folder organisation



**Micah Allen**

@micahgallen

Follow

My universal directory structure, forged from years of bad organization:

```
/Projects
.../inProgress
...../ProjectName
...../docs
...../code
...../data
...../figures
.../published
.../submitted
```

You're welcome.

12:20 AM - 29 May 2018

Figure 1: Folder Structure

Write a readme

Specify your computational environment

# Use version control



Figure 2: Thesis Timeline

Automate the boring bits

Never modify your raw data in place

Don't reinvent the wheel

Embrace your community

Conclusion