Photo by Héctor J. Rivas on Unsplash

From Me to Team

Learning to code collaboratively

Victoria King

@victoriaj_king

I'm a

PhD student
Scientist-in-training
Graduate TA
Self-taught R student

Coffee fiend

Photo by Mars on Unsplash

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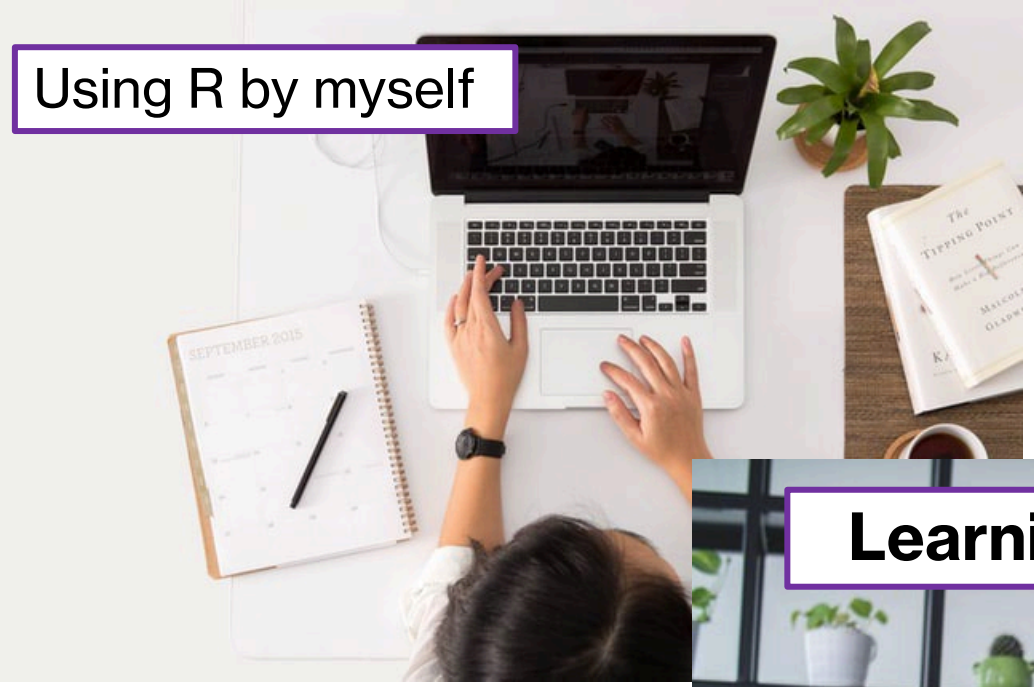

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Herstory

Undergrad: no R involved

Research assistant: clinical trial

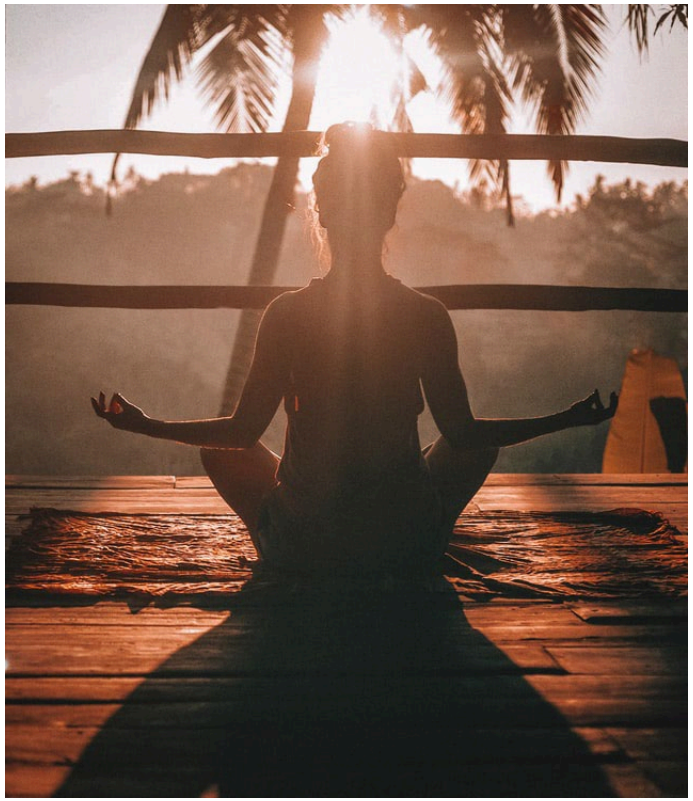
→ Data pipeline
→ Large amounts of data to play with

Needed R to get the job done

Masters: lots of signals to work with

Doctoral work: even more signals

Bizprospex.com
Photo by Jared Rice on Unsplash



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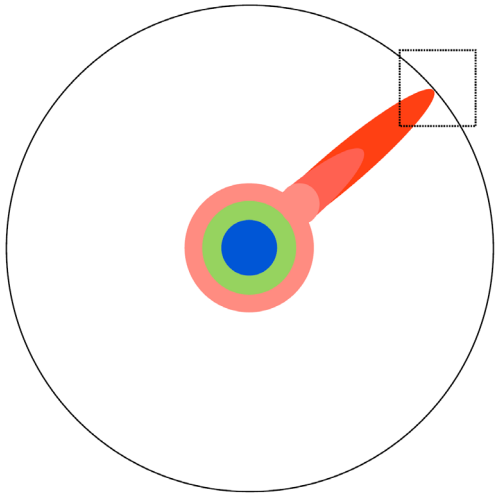
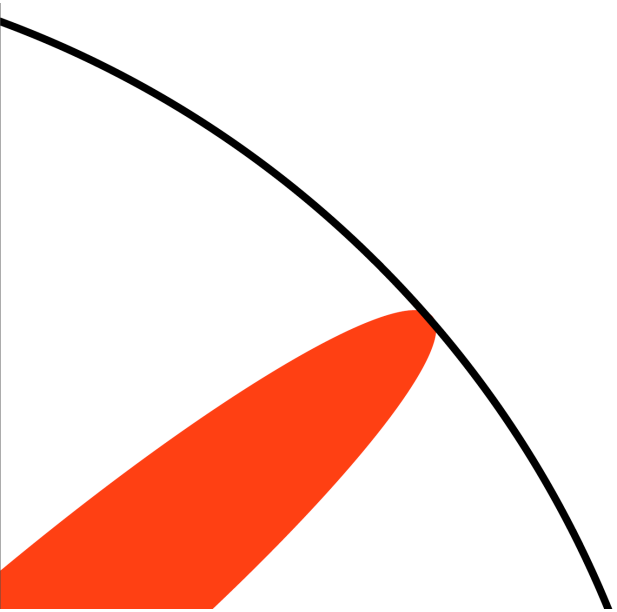
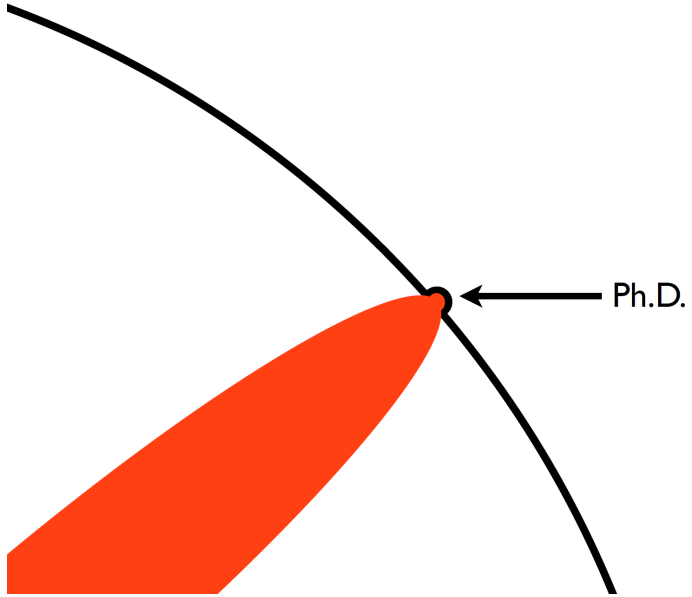
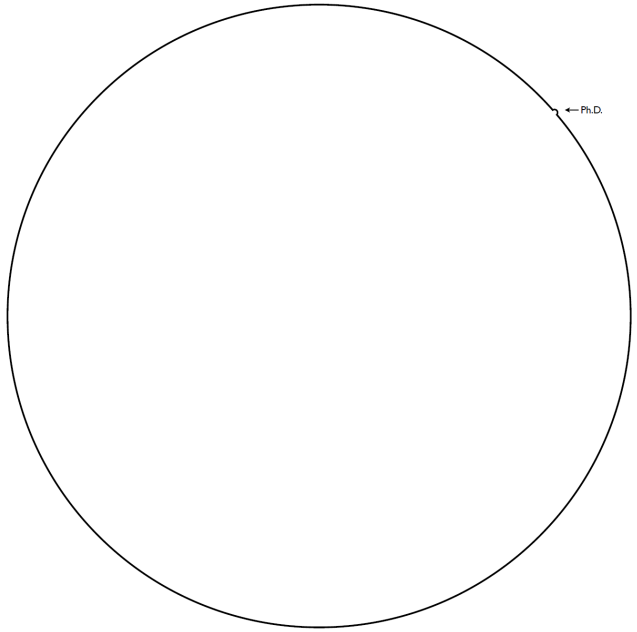
modified from The Illustrated Guide to a PhD
Matthew Might
http://matt.might.net



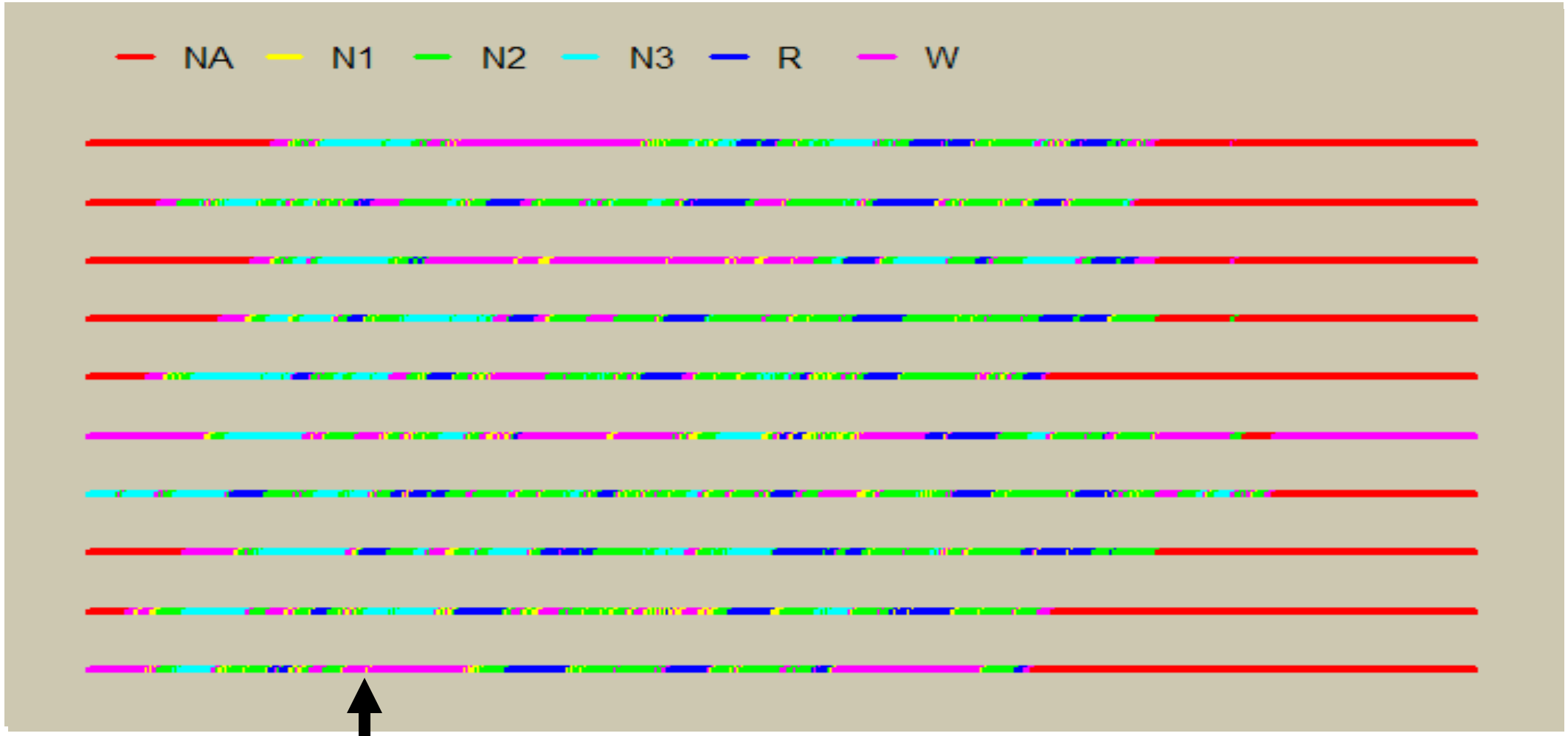






Keep pushing.

how it started

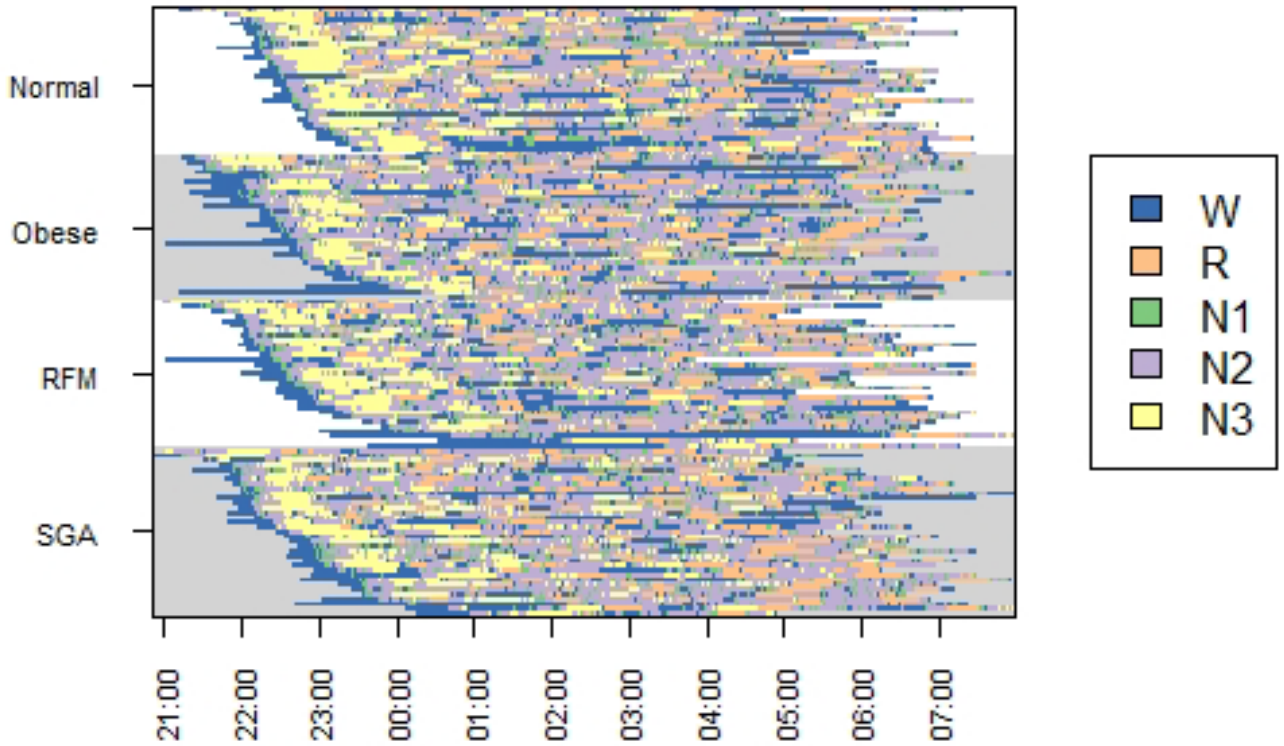


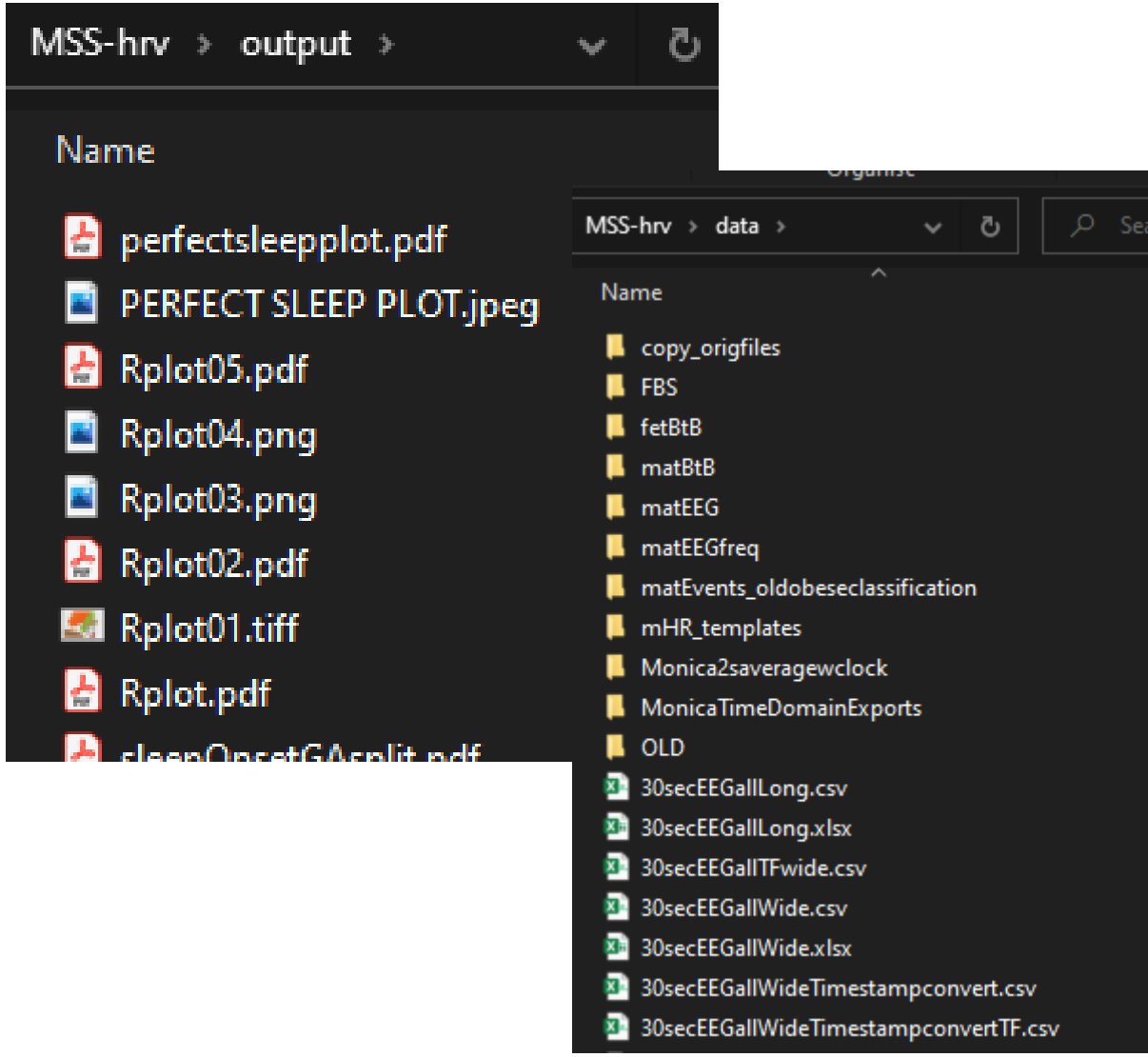
N = 10

midnight

longcatplot

how it’s going





lasagnar

being ready to share

It's scary, but we can try!

"Dirty code is better than no code"

Data may not be shareable; code is less identifying

The **C**ommunity **R**esearch and **A**cademic **P**rogramming License

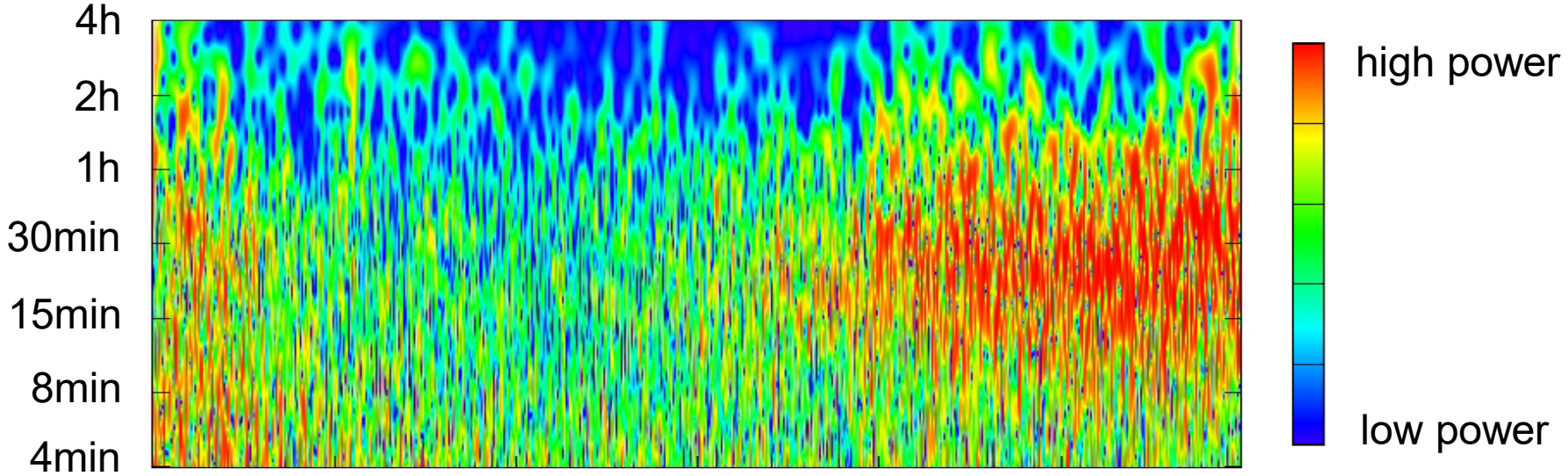
Invite feedback!

prepares us for working together

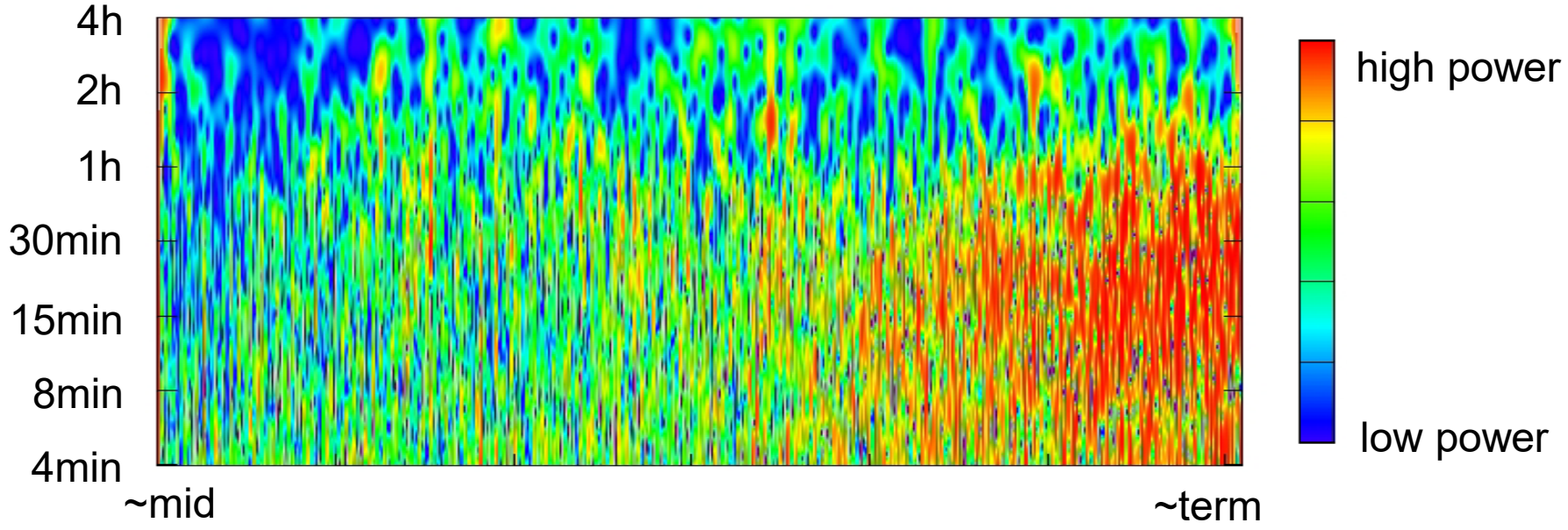
know your audience

1min averages

normal

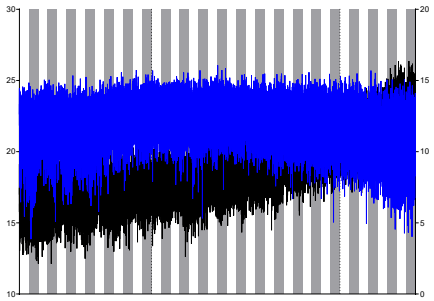


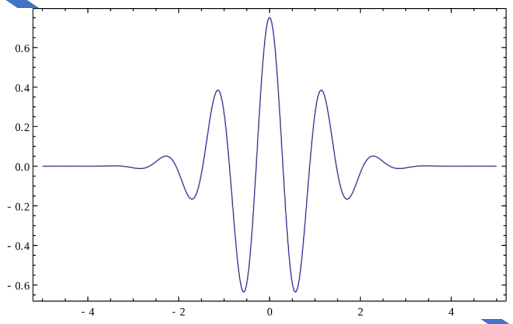
ongoing oxygen insufficiency



Rwave
WaveletComp

Methods





Morlet
wavelet transform

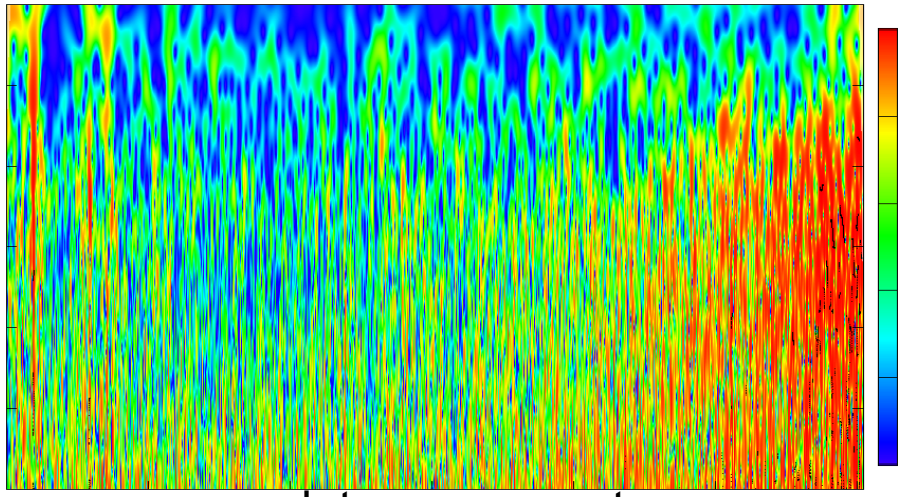
Clarity

in your intentions, if not your code

Clear documentation
that all interested parties can understand

Comments
detail helps ☺

Credit where it's due



wavelet power spectrum

Angi Roesch and Harald Schmidbauer (2018)

Photo by Carl Beech on Unsplash

know their needs

```
#TO DO LIST LOL
```

```
#load in the event files. Um. These are
```

- [redacted] Protocol V6 May 2015.docx
- [redacted] Summary 23 Nov 15 for JH.docx
- [redacted] Study Protocol V5 January 2015.docx
- Protocol updates 22 Jan 2015.docx
- Protocol updates NML Jan 2015GRW 22 Jan.docx
- [redacted] Study Protocol V4 October 2014.docx
- Protocol updates NML 22 Dec 2014.docx
- [redacted] Study Protocol V3 October 2014.docx

Photo by Carl Beech on Unsplash

know their needs

Consistency

Perfect is an aim, not an outcome:

Done > Perfect

Consider goals and timelines
both yours and your colleagues

Horses for courses

... sometimes there is a case for change!

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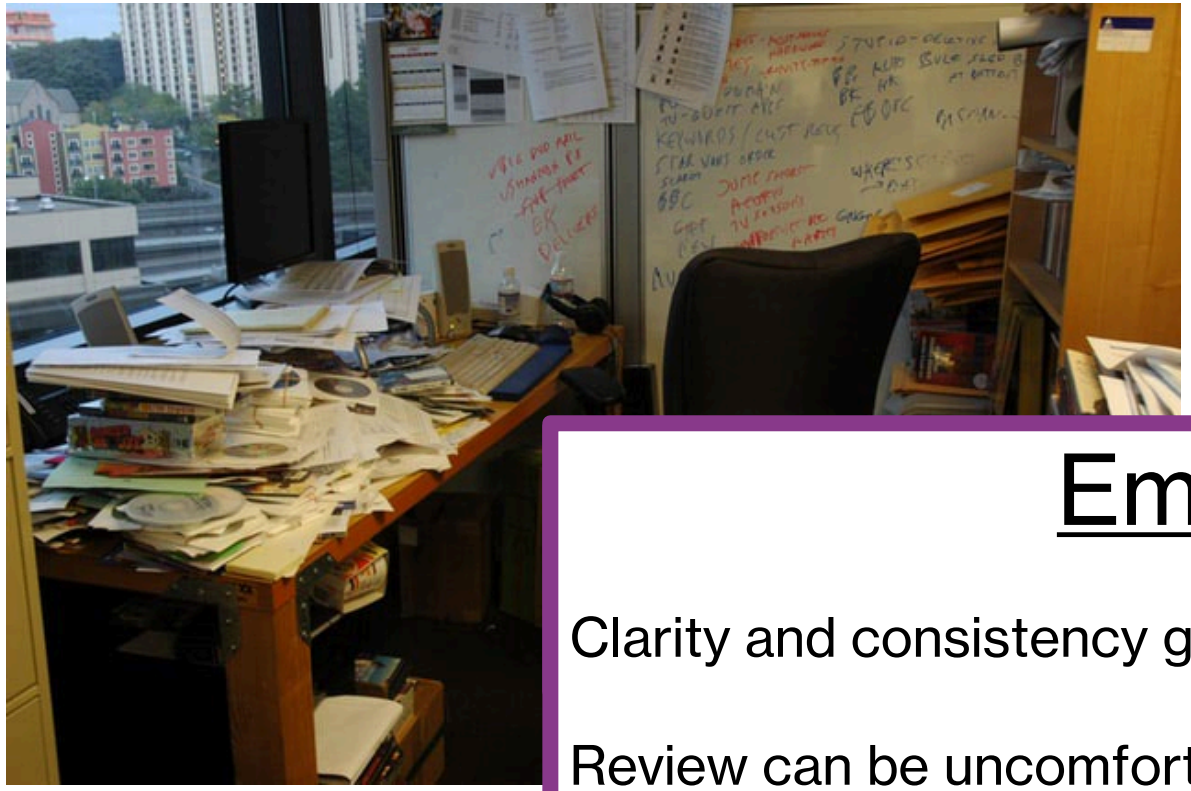
Photo by todd kent on Unsplash



Empathy

Clarity and consistency go a long way ☺

Review can be uncomfortable

Remember the effort and the person behind the screen

Cite sources for learning

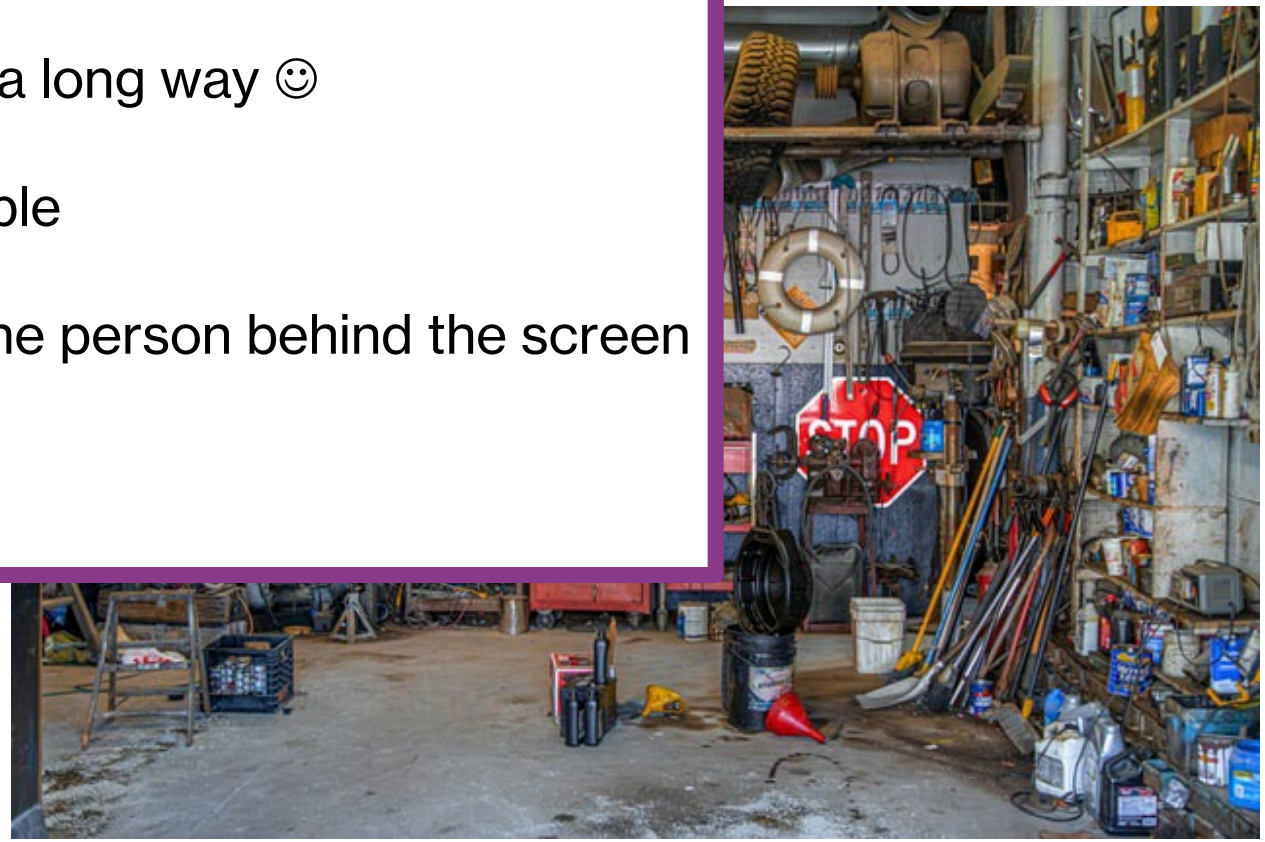


Photo by Marvin Meyer on Unsplash
modified from The Illustrated Guide to a PhD, Matthew Might

Ways to collaborate

Hackathons and meetups

Read other people's work

Collaborating is not just contributing code!
- documentation
- modify a wiki

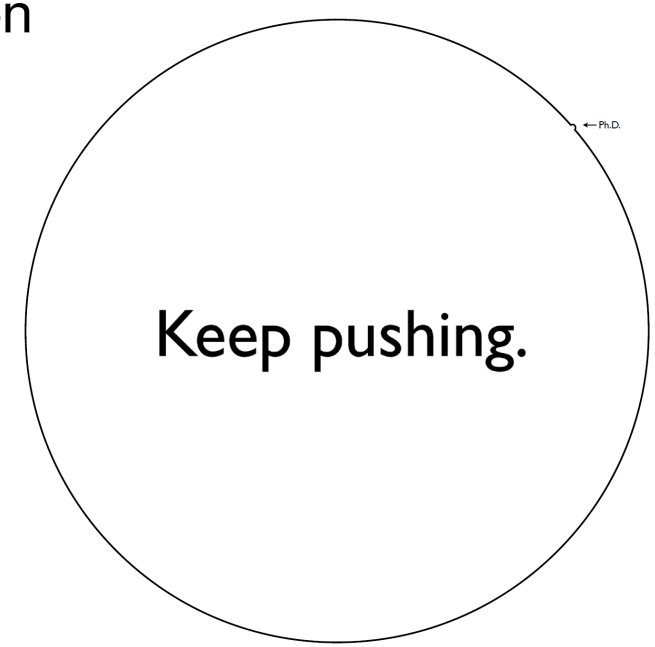


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Photo by Chris Bai on Unsplash

The CRAPL
Matthew Might
http://matt.might.net

"Dirty code is better than no code"
Lisa De Bruin osf.io/4i578
Everything Hertz episode

Solving the Path Problem:
Edwin Thoen

Victoria King

@victoriaj_king