# Data horrors & fighting ghosts

Vrije Universiteit Amsterdam – Data Conversations

Dr. Veronika Cheplygina



### My Science CV

- Area: machine learning / medical imaging
- 2011-2015 PhD TU Delft
- 2015-2016 postdoc Erasmus Medical Center
- 2017- 2020 assistant professor TU Eindhoven

Publications, invited talks (incl. open science...)



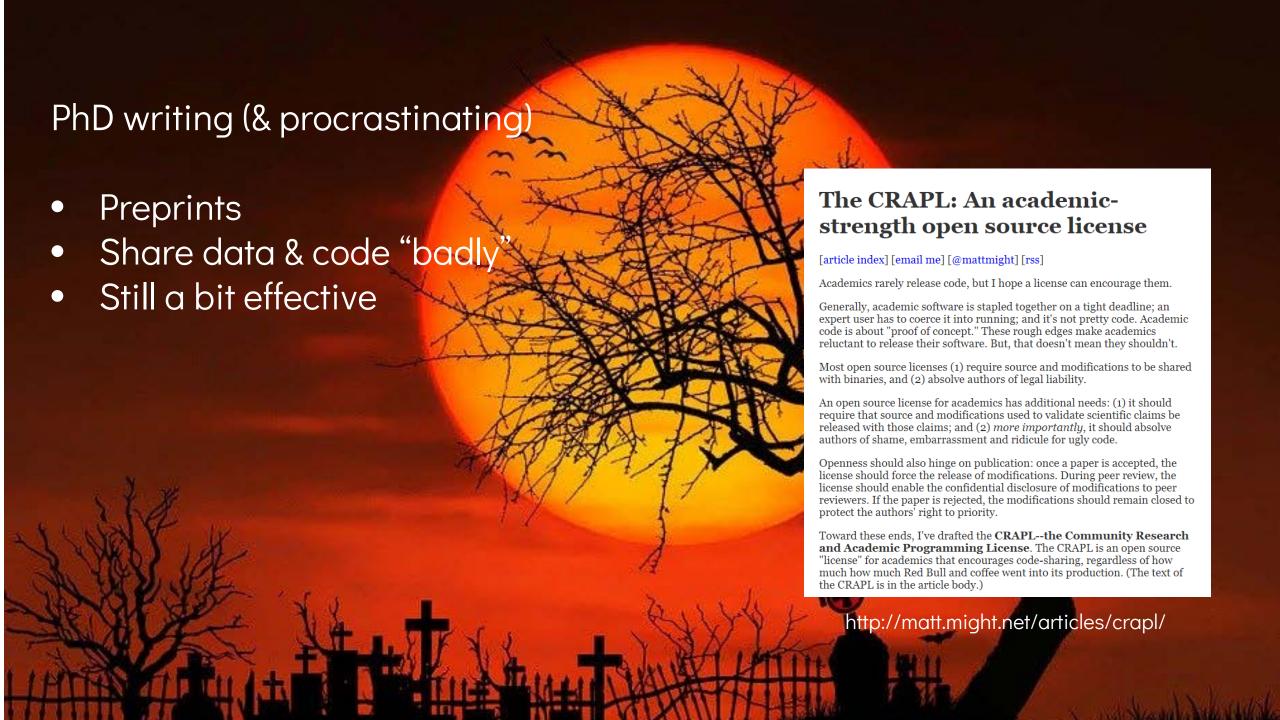


### Data Horrors - PhD

- Public, tiny .CSV datasets
- Publicly available MATLAB toolbox
- Analysis takes minutes/hours

### But

- Multiple toolbox versions
- No connection between results & version





- Clinical (private), larger datasets
- Compute server for experiments
- Analysis takes days/weeks



- Previous problems^2
- Clinical data issues
- Code too tailored to this specific data, "why share"



"Shouldn't you do more real research instead?"

"THAT's not how to do open science!"



# Navigating Open Science as Early Career Feminist Researchers

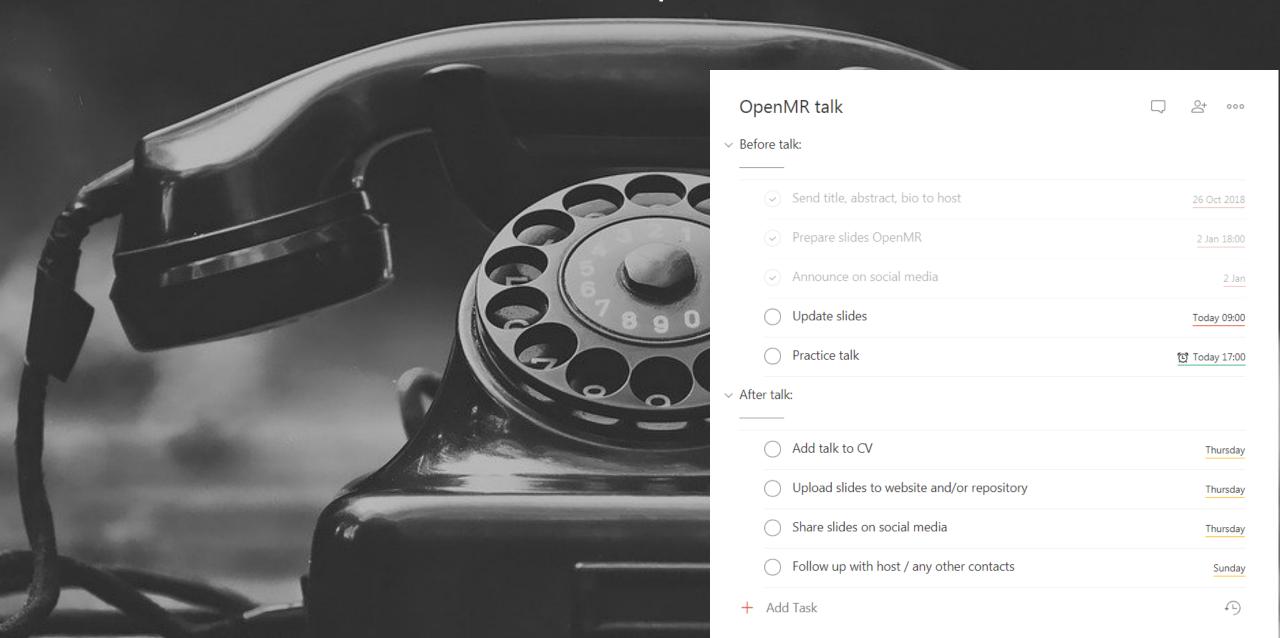
#### **AUTHORS**

Madeleine Pownall, Catherine Talbot, Anna Henschel, Alexandra Lautarescu, Kelly Lloyd, Helena Hartmann, Kohinoor Darda, Karen Tang, Parise Carmichael-Murphy, Jaclyn Siegel



Fighting ghosts

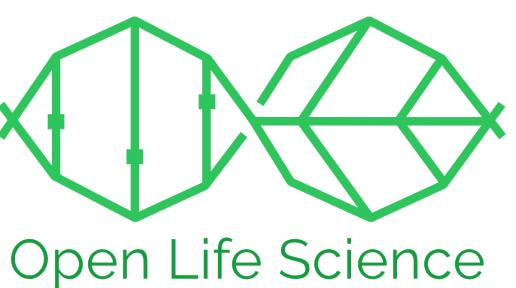
### 1. Start somewhere, but show up





### 2. Find accountability & support





https://openlifesci.org/

https://the-turing-way.netlify.app/welcome



OVERVIEW

ACHIEVEMENTS

TIMELINE

PUBLICATIONS

#### **7 ACHIEVEMENTS**



#### Open Access Top 10%

90% of your research is free to read online. This level of availability puts you in the top 2% of researchers.

% link 🔰 share



#### Wikitastic Top 25%

Your research is mentioned in 2 Wikipedia articles! Only 20% of researchers are this highly cited in Wikipedia.



#### All Readers Welcome Top 25%

Your writing has a reading level that is easily understood at grade 13 and above, based on its abstracts and titles.

% link > share



#### Global Reach

Your research has been saved and shared in 18 countries.

Countries include Australia, Brazil, Canada and 15 more.

% link 🔰 share



#### Greatest Hit Top 50%

Your top publication has been saved and shared 30 times. Only 29% of researchers get this much attention on a publication.

☼ Your greatest hit online is <u>Transfer learning for multi-center classification of chronic obstructive pulmonary disease.</u>

% link 🔰 share



## THANKS!



# Image credits

- https://pixabay.com/photos/fantasy-spirit-nightmare-dream-2847724/
- https://pixabay.com/photos/tree-cat-silhouette-moon-full-moon-736877/
- https://pixabay.com/photos/skeletons-funny-hear-no-evil-1617539/
- https://pixabay.com/photos/ufo-alien-guy-pozaziemianin-2413965/
- https://pixabay.com/photos/moon-night-full-moon-gespenstig-703537/
- https://pixabay.com/photos/lego-ghostbusters-peter-4418653/
- https://pixabay.com/photos/phone-old-year-built-1955-bakelite-3594206/
- https://pixabay.com/photos/pumpkin-halloween-face-autumn-2892303/
- Ghostbusters 2016 screen captures from <a href="https://movie-screencaps.com/ghostbusters-2016/">https://movie-screencaps.com/ghostbusters-2016/</a>