R PACKAGE VALIDATION WORKSHOP
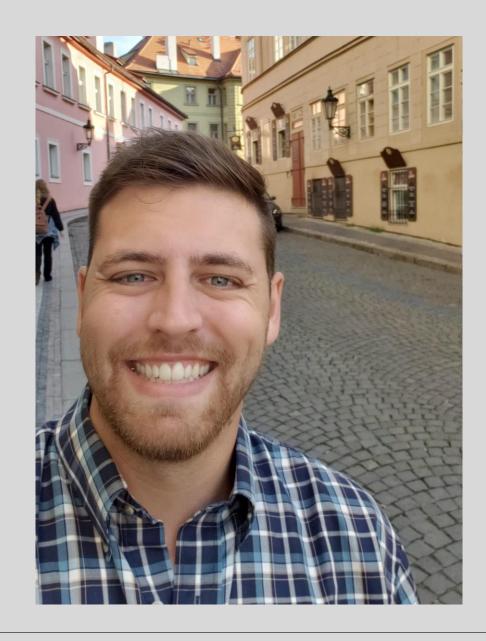
Welcome and Orientation

Welcome

◦ Who Are We

◦ Why are we here

◦ What do I need to know

◦ How are we going to get there

◦ When is this going to be done

◦ Where do we go from here

WHO ARE WE

Ellis Hughes

- Seattle UseR
- Cascadia R
- R/Pharma
- TidyX Screencast

@ellis_hughes

thebioengineer

Marie Vendettuoli

- Statistical Programmer
  - R package developer
  - Industry & gov regulatory experience
  - Recovering wet lab scientist

mariev

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Welcome to our TA's!

Eli Miller

Peyman Eshghi

Eric Simms

Juliane Mantiz

WHY ARE WE HERE

Workshop Goals

- R Package validation Framework
- How to use {valtools} to create a validation Packet
- Applying {valtools} to a package

WHAT DO I NEED TO KNOW

Expected Knowledge

- R
  - Interacting with R
  - Applying functions
  - Setting working directories

- Literate Programming
  - Markdown, knitr/Rmarkdown

Expected Knowledge

- R
  - Interacting with R
  - Applying functions
  - Setting working directories

- Literate Programming
  - Markdown, knitr/Rmarkdown

- R Package Development (optional)
  - devtools, usethis, roxygen, testthat

HOW ARE WE GOING TO GET THERE

R Studio Cloud workspace

bit.ly/valtools_rstudio_cloud

Link is posted into the chat

Workshop Materials

Slides folder contains presentation slides

Available for review during exercises

bit.ly/valtools_workshop
Workshop slides and exercises are online now and will
be available after the conference too.

Workshop Materials

Materials folder contains 2 types of exercises:
- Sparse or Verbose
- Named according to the slides they correspond with

bit.ly/valtools_workshop
Workshop slides and exercises are online now and will be available after the conference too.

WHEN ARE WE GETTING THERE

Workshop Schedule

Time	Section
0 -5 minutes	Welcome and Orientation
5 - 25 minutes	Concepts of R Package Validation
25 - 35 minutes	Introduction to {valtools}
35 - 70 minutes	Elements of Validation Part 1
70 - 80 minutes	Break
80 - 120 minutes	Elements of Validation Part 2
120 - 150 minutes	Managing Validation Projects
150 -160 minutes	Internal R Packages
160 -180 minutes	Q&A

WHERE DO WE GO FROM HERE

What if this is too much?!

What if this is too basic?!

What if I find an issue in the documentation?

What if I get stuck?

READY?
LETS GO!

bit.ly/valtools_rstudio_cloud