



# 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](https://twitter.com/ellis_hughes)

 [thebioengineer](https://github.com/thebioengineer)



# Marie Vendettuoli



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





# 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](https://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](https://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](https://bit.ly/valtools_workshop)**

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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 - 75 minutes	Elements of Validation Part 1
75 - 85 minutes	Break
85 - 125 minutes	Elements of Validation Part 2
125 - 155 minutes	Managing Validation Projects
155 -165 minutes	Internal R Packages
165 -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](https://bit.ly/valtools_rstudio_cloud)**