Defense Against the Dark R’s Syllabus

Eastman Room 3355

# Instructor Information

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| Instructor | Email | Office Location |
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# General Information

## Description

A foundation in organizing your R projects and combatting informal practices. Introduction and exploration of Open Science within a Clinical/Community framework.

## Expectations and Goals

The main goal of this course/workshop is to provide an on-ramp to using R in practice. There will likely be introductions to coding and using the software as well as important functions that are used within a social science perspective. Additionally, a goal is to introduce researchers to effective strategies and practices for organizing their research projects within R. The focus will revolve around promoting Open Science practices as they apply to own interests. I will introduce a workflow within R that will maximize reproducibility and attempt to future proof analyses (take that future Dustin!).

# Course Materials

## Required Materials

* Computer with R & R-Studio
* Laughter (WARNING: Instructor will make lame dad jokes)
* Curiosity
* Coffee

## Optional Materials

* Light Saber
* T.A.R.D.I.S./Sonic Screwdriver
* DeLorean
* One Ring to Rule Them All

## Course Website

<https://dharaden.github.io/R_Workshop_Fall23/>

## Recommended Text

**R for Data Science**

*Hadley Wickham*, <https://r4ds.hadley.nz/> (free)

**R Markdown: The Definitive Guide**

Yihui Xie, J. J. Allaire, Garrett Grolemund; <https://bookdown.org/yihui/rmarkdown/> (free)

**Advanced R**

*Hadley Wickham,* <http://adv-r.had.co.nz/Introduction.html> (free)

**The Seven Deadly Sins of Psychology: A Manifesto for Reforming the Culture of Scientific Practice**

*Chris Chambers* (check it out from the library & give it a read when you can)

# Proposed Topics

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|  | Topic |
|  | Introduction to R & R-Studio |
|  | Setting up a project and your workflow |
|  | Enter the tidyverse |
|  | Visualizing and making pretty tables |
|  | Running correlations and regressions |
|  | Capitalizing on RMarkdown |
|  | Magic |