

CWRU DSCI351-451: Exploratory Data Science

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04 September, 2018

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2.1.1.1 Reading, Homeworks, Projects, SemProjects

- Readings:
 - for today: RPR 35-64
 - For Thursday RPR 65-93
- Homeworks
 - HW1 due today
 - HW2 available on Thursday
- Data Science Projects:
- 451 SemProjects:
- Friday Comm. Hour

2.1.1.2 Textbooks

- [Peng: R Programming for Data Science](#)
- [Peng: Exploratory Data Analysis with R](#)
- [Open Intro Stats, v3](#)
- [Wickham: R for Data Science](#)
- [Hastie: Intro to Statistical Learning with R](#)

2.1.1.3 Syllabus

2.1.2 Links

Day:Date	Foundation	Practicum	Reading	Due
w1a:Tu:8/28/18	ODS Tool Chain	R, Rstudio, Git		
w1b:Th:8/30/18	Setup ODS Tool Chain	Bash, Git, Twitter	PRP4-33	HW1
w2a:Tu:9/4/18	What is Data Science	OIS:Intro2R	PRP35-64	HW1 Due
w2b:Th:9/6/18	Data Analytic Style, Git	451SempProj, Git	PRP65-93, OI1-1.9	HW2
w3a:Tu:9/11/18*	Struct. of Data Analysis	ISLR:Intro2R, Loops	PRP94-116, OIS3	HW2 Due
w3b:Th:9/13/18*	OIS3 Intro to Data	GapMinder, Dplyr, Magrittr		
w4a:Tu:9/18/18	OIS3, Intro2Data part 2, Data	EDA: PET Degr.	EDA1-31	Proj1
w4b:Th:9/20/18	Hypothesis Testing	GGPlot2 Tutorial	EDA32-58	HW3
w5a:Tu:9/25/18	Distributions	SemProj RepOut1	R4DS1-3	HW3 Due
w5b:Th:9/27/18	Wickham DSCI in Tidyverse	SemProj RepOut1	R4DS4-6	SemProj1,
w6a:Tu:10/2/18	OIS Found. of Inference	Inference	R4DS7-8	Proj1 Due
w6b:Th:10/4/18		Midterm Review	R4DS9-16 Wrangle	
w7a:Tu:10/9/18*	Summ. Stats & Vis.	Data Wrangling		
w7b:Th:10/11/18*	MIDTERM EXAM			HW4
w8a:Tu:10/16/18	Numerical Inference	Tidy Check Explore	OIS4	HW4 Due
w8b:Th:10/18/18	Algorithms, Models	Pairwise Corr. Plots	OIS5.1-4	Proj 2, HW5
Tu:10/23	CWRU FALL BREAK		R4DS17-21 Program	
w9b:Th:10/25/18	Categorical Infer	Predictive Analytics	OIS6.1,2	
w10a:Tu:10/30/18	SemProj	SemProj	OIS7	SemProj2 HW5 Du
w10b:Th:11/1/18	Lin. Regr.	Lin. Regr.	OIS8	Proj.2 due
w11a:Tu:11/6/18	Inf. for Regression	Curse of Dim.	OIS8	Proj 3
w11b:Th:11/8/18	Model Accuracy	Training Testing	ISLR3	HW6
w12a:Tu:11/13/18	Multiple Regr.	Mul. Regr. & Pred.	ISLR4	HW6 due
w12b:Th:11/15/18	Classification		ISLR6	
w13a:Tu:11/20/18	Classification	Clustering	ISLR5	Proj 3 due
Th:11/22/18	THANKSGIVING			Proj 4
w14a:Tu:11/27/18	Big Data	Hadoop		
w14b:Th:11/29/18	InfoSec	VerisDB		SemProj3
w15a:Tu:12/4/18	SemProj Re- portOut3			
w15b:Th:12/6/18	SemProj Re- portOut3			Proj4
	FINAL EXAM	Monday12/17, 12:00-3:00pm	Olin 313	SemProj4 due

Figure 1: DSCI353-453 Syllabus