Problem Set 2 - pdf Submission

Submit Assignment

Due Monday by 11:59pm **Points** 40 **Submitting** a file upload **File Types** pdf **Available** Oct 15 at 12am - Oct 20 at 1:59am 5 days

Please submit your final Report here. The report should be in a .pdf format.

This document will be formally graded.

Problem Set 2 - Rubric

10/19/2020			Proble	em Set 2 - pdf Submission				
Criteria	Ratings							
Title - An informative title is included in the PDF Tell the reader what your story is - don't waste their time Ideally tell them what happens at the end of the story "Problem Set X" is NOT an informative title.	2.0 pts Full Marks Exceptional			1.0 pts There is a title				0.0 pts No Title
Authors, Data, Repo The author and date are clearly included under the title. A link to a GitHub repo is also contained (likely, but not necessarily, through a statement in the report such as: 'Code and data supporting this analysis is available at: X').	2.0 pts Full Marks				0.0 p	ots Marks		
Abstract - An abstract is included and appropriately pitched to a general audience. - The abstract answers: what was done, what was found, and why this matters (all at a high level). - If your abstract is longer than four sentences then you need to think a lot about whether it is too long. It may be fine (there are always exceptions) but you should probably have a good reason.	4.0 pts Exceptional Full and comple flow and comm	ete summary. Exceptional unication.	3.0 pts Great Great - an aspect is poorly done or tone is slightly inappropriate		2.0 pts Adequate Adequate, but there are still major issues.		1.0 pts Poor Does not achieve the basi an executive summary.	
Introduction - The introduction is self-contained and tells a reader everything they need to know, including putting it into a broader context. - Your introduction should provide a bit of broader context to motivate the reader, as well as providing a bit more detail about what you're interested in, what you did, what you found, why it's important, etc. - A reader should be able to read only your introduction and have a good idea about the research that you carried out. - It would be rare that you would have tables or figures in your introduction (again there are always exceptions but think deeply about whether yours is one). - It must outline the structure of the report.	4.0 pts Exceptional Introduction is complete and is well written.	3.0 pts Great Overall complete, but there are still aspects that could use improvement.	still majo	duction is complete, but there in room for improvement (either flow, communication and/or		1.0 pts Poor The introduction is inintroduction is missin room for improvement	g key c	omponents and there

0/19/2020		Problem Set 2 - pdf Submission								
Criteria	Ratings									
Data When you discuss the dataset	8.0 pts Exceptional	7.0 pts Great	6.0 pts Good	4.0 pts Adequate	2.0 pts Major Issues					
			1 .		1 .					
- What do the data look like? - Plot. The. Raw. Data. (or as close as you can get to it).										
- Exceptional means that when I read your submission I learn something about the dataset that I don't learn from any other										
submission (within a reasonable measure of course).										

Criteria	Ratings									
Model The model is well-explained, justified, and appropriate. When you discuss your model you must be extremely careful to spell out the statistical model that you are using defining and explaining each aspect and why it is important. The model needs to be written out in appropriate mathematical notation but also in plain English. Every aspect of that notation must be defined otherwise the most this section can receive is poor. If the model is Bayesian, then priors need to be defined and sensible. Discussion needs to occur around how features enter the model and why. For instance, (and these are just examples) why use ages rather than agegroups, why does province have a levels effect, why is gender categorical, etc? In general, in order to be adequate, there needs to be a clear justification that this is the model for the situation. Alternative models, or variants, must be discussed and strengths and weaknesses made clear. You should mention the software that you used to run the model. You should be clear about model convergence, model checks, and diagnostic issues. Great answers would discuss things such as, how do the sampling and survey aspects that you make. Again if it becomes too detailed then push some of the details to footnotes or an appendix.	10.0 pts Exceptional Complete and exceptionally communicated.	8.0 pts Great This section only contains one or two minor issues, but overall well done. Good communication and well thought out.	6.0 pts Good Contains of major issu a lot of mir issues. Overall, m most of the criteria in the section. Contains of the communication	e, or nor eets e the ould	5.0 pts Fine Contains one major issue and some minor issues. Section is completed, but does not meet all criteria. Communication could use improvement.	4.0 pts Adequate Contains multiple major issues and/or many minor issues. Section is completed, but does not meet all criteria. Communication could use improvement.	3.0 pts Barely Adequate Contains many major and minor issues. Section is does not meet all criteria. Communication could use improvement.	2.0 pts Not Great Contains ma major and minor issues Section is do not meet all criteria. Communicat could use major improvement	major minor es Sectio clearly incomplion does rall crite is pool	
Results - Results will likely require summary statistics, tables, graphs, images, and possibly statistical analysis or maps. - Show the reader the results by plotting them. Talk about them. Explain them. That said, this section should strictly relay results.	6.0 pts Exceptional Complete and well communicated.	5.0 pts Great Complete and we communicated, v or two minor issu	ell vith one le(s).	-	ete with one	3.0 pts Good Complete with at mo 2 major issues or a l of minor issues.		but Inponents.	.0 pts Poor ncomplete an nissing compo ots of major i	

Discussion Criteria Discussion and results will	8.0 pts	7.0 pts	6.0 pts	5.0 pts	4.0 pts Ratings Adequate	2.0 pts		1.0 pts	
Discussion and results will likely require summary	Exceptional	Great	Good	Fine	Adequate	Almost Adequate	•	Poor	
tatistics, tables, graphs,									
nages, and possibly statistical									
nalysis or maps.									
Show the reader the dataset									
y plotting the data. Talk about									
Explain it. It is this dataset at will allow you to tell your									
ory, so if the reader isn't									
omfortable with it then they									
ill be difficult to convince.									
Explain where the dataset									
ame from, the bias that may									
xist, and what you did to djust for that.									
Note this is different to EDA									
hich is a more free-flowing									
arrative - instead this section									
nust tell the reader exactly									
what they need to know about our dataset - not everything									
nat you tried, or the journey									
ou went on.									
Code for these aspects does									
ot have to be included (and									
kely should not be included)									
s part of the main content but									
nust be included in									
ppendices or in linked GitHub epos.									
Shortcomings or weaknesses									
f the survey, sampling									
pproach, and/or analysis are									
horoughly discussed.									
Numbering									
All figures/tables/equations/etc	2.0 pts Yes			1.0 pts Partially			0.0 pts	6	
are numbered and referred to	163			raitiany			140		
n the text.									
Proofranding									
Proofreading All aspects of submission are	2.0 pts Yes			1.0 pts Partially			0.0 pts	5	
ree of noticeable typos.	Tes			Failidily			NO		
Graphs, Tables, etc.	6.0 pts	5.0 pts	4.0	pts		3.0 pts		2.0 pts	1.0 pt
Any	Exceptional	Great	God	od		Adequate		Barely	Poor
raphs/tables/images/summary tatistics that are used must be		Overall great, but o		erall great, but tw		Adequate, but made		Adequate	Poor,
f an incredibly high		aspect could use		-	one aspect is not	than one or two majo	r		two c
tandard. ☐ They must be well		improvement.	don	e.		issues.			majo
ormatted and report-□ready□									
hey should be clean and									
igestible.□									
hey:									
serving a clear purpose;									
fully self-contained through oppropriate use of									
bels/explanations, etc; and									
appropriately sized and									
ploured (or appropriate									
gnificant figures in the case									
f stats).									
O-d-f-db									
•									
ot have to be included (and			1						
ot have to be included (and kely should not be included)							1		
ot have to be included (and kely should not be included) s part of the main content but									
ot have to be included (and kely should not be included) s part of the main content but nust be included in									
Code for these aspects does ot have to be included (and kely should not be included) s part of the main content but nust be included in ppendices or in a linked reponat is mentioned in your main									

0/19/2020 References	4.0 pts		Problem Set 2 - p			0.0 pts
- All data/software/literature/etc	Exceptional		Acceptable	Ratings		Poor or Not Complete
are appropriately noted, and cited in a consistent way that matches a major citation style. You must cite the software and software packages that you use. You must cite the datasets that you use. You must cite any methodologies or ideas (not directly covered in the lectures or pre-requisite courses) that you used.	Consistent, co	mplete, and well formatted.	Minor issue (in fo	rmatting, or slightly inco	mplete)	Severely incomplete and/or major is
Reproducibility Given the circumstances, the report and analysis appear to be as reproducible as possible. Given the nature of how the GSS is obtained, you do not have to use code to actually download it but you must document how you got it. This likely involves features such as the use of code to import data, prepare it, create plots, conduct analysis, and generate documents; the use of seeds where possible. Code examples from class are over-documented for the purpose of helping you learn - e.g. in your submission you wouldn't need to explain what 'mutate' is doing. If you screenshot your code and then include the image then this will be given 0 as it is not possible to test. You must appropriately document your scripts such that someone coming in could follow them. Your repo must be thoroughly organized.	6.0 pts Exceptional	5.0 pts Good Minor issues that do not a another computer.	affect the ability of the o	ode to be run on	4.0 pts Adequate	2.0 pts Poor Substantial shortcomings, such as comments.
General Excellence General excellence marks are available because there are always some students who clearly excel in a way that has not been anticipated. It would be unfair to not reward that excellence, but it is difficult to plan for. These general excellence marks are available to all students, and it is expected that all students will attempt to excel in some way that is not anticipated if they want to get 100 per cent.	3.0 pts Exceptional		.0 pts Great	1.0 pts Well done		0.0 pts No Additional Points

Drop here!