## Lab 2 GSI

Name of studen	t *						
Todd Faulkenberry							
Student ID *							
3033134639							
Readability of re	port (5 p	ooints) *					
	1	2	3	4	5		
Narrative unclear and/or difficult to read and/or there is not much detail in the explanations		0			0	Narrative very clear and/or easy to read and lots of detail is given	
Grammar of report (5 points) *							
	1	2	3	4	5		
Incorrect of written grammar pervasive	0	0	0	0	•	Excellent written grammar	

Lab 2 GSI 10/18/2018

Detail of kernel d	lensity est	timation ana	lysis (3 poi	nts) *	
	0	1	2	3	
Did not explore different bandwidths or kernels					Explored a variety of bandwidths and kernels and clearly related these to the bias- variance tradeoff
Relevance and q	uality of fi	gures relate	d to kernel	density es	timation *
	0	1	2	3	
Did not provide any figures				0	Provided clear, relevant, and visually appealing figures
Comments on w figures *	hat you lik	red about th	e author's k	ernel dens	sity estimation
I like your color choic	ces, and how	you included a	separate plot	for the extre	eme cases!

Comments on what could be improved in the author's kernel density estimation figures \*

Make sure to include a legend showing the values of the different bandwidths you choose. Although I know from previous knowledge that the bumbier the estimate the smaller the bandwdith if I did not it wouldn't be clear which was which.

many points in your figure so it is not 100% necessary

Detail of loess smoothing analysis (3 points) *						
	0	1	2	3		
Did not conduct an analysis using a loess smoother	0		0	0	Explored a variety of bandwidths and polynomials and clearly related these to the bias- variance tradeoff	
Relevance and qu	uality of fi	gures relate	d to loess s	moothing	(3 points) *	
	0	1	2	3		
Did not provide any figures	0		0	•	Provided clear, relevant, and visually appealing figures	
Comments on what you liked about the author's loess figures *						
The figure looks really good! The choice of using gray points is a good one						
Comments on what could be improved in the author's loess figures *						
I don't love the yellow background, and transparency may have good, although there are not too						

Level of detail in the written comparison between two questions (3 points) *							
	1	2		3			
Little detail (barely described the relationships between the two questions)					Very detailed (described clearly the geographical groups formed by each question and discussed how the questions were related to one another)		
Comments on authors analysis of the two questions							
Quality and relev	ance of figu	res (e.g. ma	ps) for the t	wo ques	tions (3 points)		
	0	1	2	3			
Did not provide figures			•	0	Provided clear, informative, and visually appealing figures		
Comments on w	hat you liked	d about the f	igure(s) *				
I think here the yellow background is useful in grouping all the question and title into one figure.							
Comments on w	hat could be	e improved ir	n the author'	's figure(	s) *		
The color choices he first plot where the d		•		e another e	especially in the		

Lab 2 GSI 10/18/2018

Discovered that the binary encoding should be aggregated (e.g. lat-lon bins)
in order to perform meaningful PCA (or other dimension reduction
technique) (2 points) *



Discussed clustering and related these clustering result to geography (3 points) NOTE: point subtracted if lat-long values included in cluster algorithm \*

	0	1	2	3	
Did not discuss clustering					Discussed in the detail the clusters found in the data and how they relate to geography and thought carefully about number of
					clusters

Comments on clustering analysis

Quality and releve points) *	ance of fig	gures relate	d to clusteri	ng and ge	ography (3
	0	1	2	3	
Did not provide figures					Provided clear, informative, and visually appealing figures
Comments on w geography *	hat you lik	ed about th	e figure(s) r	elated to o	clustering and
I like that you don't ir	nclude any ax	ces in your map	s, that would j	ust add clut	ter to the figure!
Comments on work clustering and governments are governments and governments and governments and governments are governments and governments and governments and governments are governments and governments and governments are governments and governments and governments are governments and governments an	eography to tell the dif	ference betweenstability of a	en cluster 6 an finding (3 p	d 8 for exam	TE: partial point
	0	1	2	3	
Did not study robustness					Tested in detail the robustness of their findings (e.e. using repeated data perturbations, subsamples, or bootstrapped samples)

on a map) (1 po	•	riy cool visu	ialization (i.e	e. not just	scatter points	
☐ THe author ma	de a really cre	ative map				
Bonus point for data not require	-		lysis (i.e. an	swering a	question of the	
The author perf	ormed a creat	tive analysis				
Reproducibility	of report (4	points) *				
	1	2	3	4		
Could not recompile					Could recompile the report and figures without manual effort and got the same output	
If you could not	compile, or	got differe	nt output, ex	xplain wha	at went wrong	
I couldn't compile be likely just have a old				_	rsion of R, but you	
Readability of co	ode (4 poin	ts) *				
	1	2	3	4		
Code very difficult to read with little documentation				•	Code easy to read with clear documentation	
Comments on code						

Clarity of folder structure (2 points) \*

orarrey or roraci or	i dotaio (2 po	,,,,,,		
	0	1	2	
Many excess files not relevant to report				The purpose of each file is clear and there are no excess files in the lab2 folder

## Comments on what the author did well

Your discussion of your findings is really nice. I like how you related it to your everyday life!

## Comments on what the author could improve

Obviously, time is the biggest issue here. If you had been able to complete the report I am confident you would have done quite well.

This form was created inside of UC Berkeley.

Google Forms