PEER REVIEW

Reviewers (ISZ 4):

Justyna Gibas

Jan Pomykacz

Section	Criterion	Points	Argumentation
Problem		5/5	
formulation	Is the problem clearly stated	1	Yes, problem is clearly stated.
	What is the point of creating model, are potential use cases defined	1	Potential use cases were described.
	Where do data comes from, what does it contain	1	Source and contents of data were described.
	DAG has been drawn	1	Yes
	Confoundings (pipe, fork, collider) were described	1	Description of potential confoundings was made.
Data		2/2	
preprocessing	Is preprocessing step clearly described	1	Steps of preprocessing were provided and described.
	Reasoning and types of actions taken on the dataset have been described	1	It was described, as stated above.
Model		4/4	
	Are two different models specified	1	Yes.
	Are difference between two models explained	1	Yes, it is explained (more predictors in second model)
	Is the difference in the models justified (e.g. does adding additional parameter makes sense?)	1	Yes. Decision based on research note included in raport.
	Are models sufficiently described (what are formulas, what are parameters, what data are required)	1	All inputs, parameters and formulas are provided and described.
Priors		4/4	
	Is it explained why particular priors for parameters were selected	1	Yes, it is explained.
	Have prior predictive checks been done for parameters (are parameters	1	Yes.

	. 1 . 1	1	
	simulated from priors make		
	sense)		
	Have prior predictive	1	Yes, they do make sense, there
	checks been done for		aren't any impossible values.
	measurements (are		
	measurements simulated		
	from priors make sense)		
	How prior parameters were	1	.Justification provided for
	selected		chosen priors.
Posterior		3.5/4	
analysis (model	were there any issues with	1	Issues and solution for them
1)	the sampling? if there were	1	were described.
1)	what kind of ideas for		were described.
	mitigation were used	1	G 1 1 1
	are the samples from	1	Samples were analyzed.
	posterior predictive		
	distribution analyzed		
	are the data consistent with	0.5	Samples were consistent, but
	posterior predictive samples		only comment was that it
	and is it sufficiently		follows data.
	commented (if they are not		
	then is the justification		
	provided)		
	have parameter marginal	1	Plots were drawn and described.
	distributions been analyzed	1	1 lots were drawn and described.
	(histograms of individual		
	` .		
	parameters plus summaries,		
	are they diffuse or		
	concentrated, what can we		
	say about values)		
Posterior		2.5/4	
analysis (model	were there any issues with	1	Issues and solution for them
2)	the sampling? if there were		were described.
	what kind of ideas for		
	mitigation were used		
	are the samples from	0	Samples were plotted, but
	posterior predictive		weren't described.
	distribution analyzed		stell t deserioud.
	are the data consistent with	0.5	Samples were consistent but
		0.5	Samples were consistent, but
	posterior predictive samples		not commented.
	and is it sufficiently		
	commented (if they are not		
	then is the justification		
	provided)		
	have parameter marginal	1	Plots were drawn and described.
	distributions been analyzed		
	(histograms of individual		
	parameters plus summaries,		
	are they diffuse or		
		ı	l

	concentrated, what can we say about values)		
Model comparison		4/4	
	Have models been compared using information criteria	1	Yes, both criteria were used.
	Have result for WAIC been discussed (is there a clear winner, or is there an overlap, were there any warnings)	1	Model outcome was discussed, warnings were described.
	Have result for PSIS-LOO been discussed (is there a clear winner, or is there an overlap, were there any warnings)	1	Model outcome was discussed.
	Whas the model comparison discussed? Do authors agree with information criteria? Why in your opinion one model better than another	1	Comparison results were discussed, authors agree with them.

Total points: 25/27 (%)