Review ISZ_8

reviewers

Imię i Nazwisko 1	Karolina Woźniak	Points:	23.5/27
Imię i Nazwisko 2	Maciej Górnik	Percent:	87%

Problem formulation [4.5 | 5 pts]:

■ is the problem clearly stated [1 pt]

Problem statement is clear.

what is the point of creating model, are potential use cases defined
 Point and potential use case defined.

where do data comes from, what does it contain
 Authors stated the source and data contains.

DAG has been drawn[1 pt]

Dag diagram is extensive and well done owerall.

confoundings (pipe, fork, collider) were described
 Cofundings are visible on DAG, but there is no description of them

Data preprocessing [2 | 2 pts]:

is preprocessing step clearly described
 Every step is described clearly.

reasoning and types of actions taken on the dataset have been described
 [1 pt]
 Every action done is reasonable.

Model [4 | 4 pts]

are two different models specifiedYes

•	are difference between two models explained Yes	[1 pt]
•	is the difference in the models justified (e.g. does adding aditional parameter makes sense?) Yes	[1 pt]
•	are models sufficiently described (what are formulas, what are parameters, what data are required) Yes	[1 pt]
Priors	[4 4 pts]	
•	Is it explained why particular priors for parameters were selected Yes, prior selection makes sense	[1 pt]
•	Have prior predictive checks been done for parameters (are parameters simulated from priors make sense) Simulated parameters make sense	[1 pt]
	Simulated parameters make sense	
•	Have prior predictive checks been done for measurements (are measurements simulated from priors make sense) Simulated measurements make sense	[1 pt]
•	How prior parameters were selected It is clearly described and it makes sense	[1 pt]
Postei	rior analysis (model 1) [3 4 pts]	
•	were there any issues with the sampling? if there were what kind of ideas for mitigation were used There were not, sampling is done okay	[1 pt]
•	are the samples from posterior predictive distribution analyzed Samples are analuzed	[1 pt]
•	are the data consistent with posterior predictive samples and is it sufficiently commented (if they are not then is the justification provided) Yes	[1 pt]

have parameter marginal disrtibutions been analyzed (histograms of individual [0 pt] parametes plus summaries, are they diffuse or concentrated, what can we say about values) There are no histograms of individual parameters, no analysis was done Posterior analysis (model 2) [3 | 4 pts] were there any issues with the sampling? if there were what kind of ideas for [1 pt] mitigation were used There were not, sampling was okay. are the samples from posterior predictive distribution analyzed [1 pt] Yes are the data consistent with posterior predictive samples and is it sufficiently [1 pt] commented (if they are not then is the justification provided) Data is consistent and sufficiently commented have parameter marginal disrtibutions been analyzed (histograms of individual [0 pt] parametes plus summaries, are they diffuse or concentrated, what can we say about values) There are no histograms of individual parameters, no analysis was done Model comparison [3 | 4 pts] Have models been compared using information criteria [1 pt] Yes Have result for WAIC been discussed (is there a clear winner, or is there an overlap, [1 pt] were there any warnings) Yes Have result for PSIS-LOO been discussed (is there a clear winner, or is there an [1 pt] overlap, were there any warnings) Yes Whas the model comparison discussed? Do authors agree with information [0 pt] criteria? Why in your opinion one model better than another Comparison discussion not sufficient. Report is lacking summary.