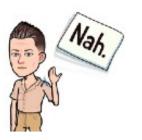
# Bayesian modelling



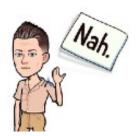




Must be reported, otherwise is Failing to report influence of prior

# Questionable?





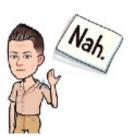


Failing to report influence of prior

Must be reported, otherwise is QRP.

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.







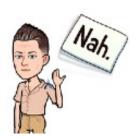
Failing to report influence of prior

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Must be reported, otherwise is QRP.

Prior: checking influence.	Is it often done? Is it reported?  QRP if not reported.	
----------------------------	---	--







Failing to report influence of prior

Must be reported, otherwise is QRP.

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Prior: checking influence.

Is it often done? Is it reported? QRP if not reported.

selection of prior: weighting	Questions on how to weight if from another location for inference.	Post-hoc rationalisation of weighting is a QRP
-------------------------------	--	--







Failing to report influence of prior

Must be reported, otherwise is QRP.

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Prior: checking influence.

Is it often done? Is it reported? QRP if not reported.

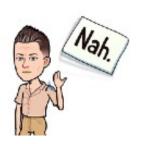
selection of prior: weighting

Questions on how to weight if from another location for inference.

Post-hoc rationalisation of weighting is a QRP

## Consensus that Use of a model as source of priors questionable







Failing to report influence of prior

Must be reported, otherwise is QRP.

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Prior: checking influence.

selection of prior: weighting

Is it often done? Is it reported? QRP if not reported.

Questions on how to weight if from another location for inference.

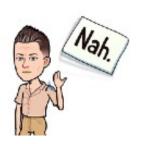
Post-hoc rationalisation of weighting is a QRP

Use of a model as source of priors

Consensus that **not** questionable

MCMC convergence - is it checked thoroughly, is a wide range of initial values used?







Failing to report influence of prior

Must be reported, otherwise is QRP.

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Prior: checking influence.

Is it often done? Is it reported? QRP if not reported.

selection of prior: weighting

Questions on how to weight if from another location for inference.

Post-hoc rationalisation of weighting is a QRP

Use of a model as source of priors

Consensus that **not** questionable

MCMC convergence - is it checked thoroughly, is a wide range of initial values used?

if an	
-------	--







Failing to report influence of prior

Must be reported, otherwise is QRP.

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Prior: checking influence.

Is it often done? Is it reported? QRP if not reported.

selection of prior: weighting

Questions on how to weight if from another location for inference.

Post-hoc rationalisation of weighting is a QRP

Use of a model as source of priors

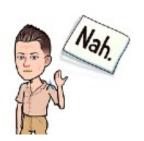
Consensus that **not** questionable

MCMC convergence - is it checked thoroughly, is a wide range of initial values used?

Large computational burden might disuade full / thorough analysis

Selective checking of results if an interesting result appears.







Failing	to	report	influence	of	prior
---------	----	--------	-----------	----	-------

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Is it often done? Is it reported? QRP if not reported.

QRP.

selection of prior: weighting

Prior: checking influence.

Questions on how to weight if from another location for inference.

Post-hoc rationalisation of weighting is a QRP

Use of a model as source of priors

MCMC convergence - is it checked thoroughly, is a wide range of initial values used? Consensus that **not** questionable

Large computational burden might disuade full / thorough analysis

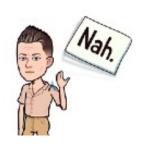
Selective checking of results if an interesting result appears.

Interpreting credible intervals in NHST framework

potential P-hacking issues

## This is still an issue with Bayesian HARKing methods







Post-hoc rationalisation of weighting is

a QRP

Failing	to	report	influence	of	prior
1 4111119		TOPOIL	11111401100	01	Piloi

Must be reported, otherwise is QRP.

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Prior: checking influence.

selection of prior: weighting

Is it often done? Is it reported? QRP if not reported.

Questions on how to weight if from another location for inference.

Consensus that

not

questionable

Use of a model as source of priors

MCMC convergence - is it checked thoroughly, is a wide range of initial values used?

Large computational burden might disuade full / thorough analysis

Interpreting credible intervals in NHST framework

Selective checking of results if an interesting result appears.

potential P-hacking issues

This is still an issue with Bayesian methods

**HARKing** 

# Multiple models and model selection

**Practice** 



Questionable?





# Bayesian modelling

#### **Practice**







Egiling to report influence of prior	Must be reported, otherwise is
Failing to report influence of prior	QRP.

Selection of prior: are priors measured on the same scale / units of likelihood? If the result is interesting, you might keep the result.

Prior: checking influence.

Is it often done? Is it reported?

QRP if not reported.

Questions on how to weight if selection of prior: weighting from another location for inference.

Post-hoc rationalisation of weighting is a QRP

Use of a model as source of priors

Consensus that **not** questionable

MCMC convergence - is it checked thoroughly, is a wide range of initial values used?

Large computational burden might disuade full / thorough analysis

Selective checking of results if an interesting result appears.

Interpreting credible intervals in NHST framework

potential P-hacking issues

This is still an issue with Bayesian methods