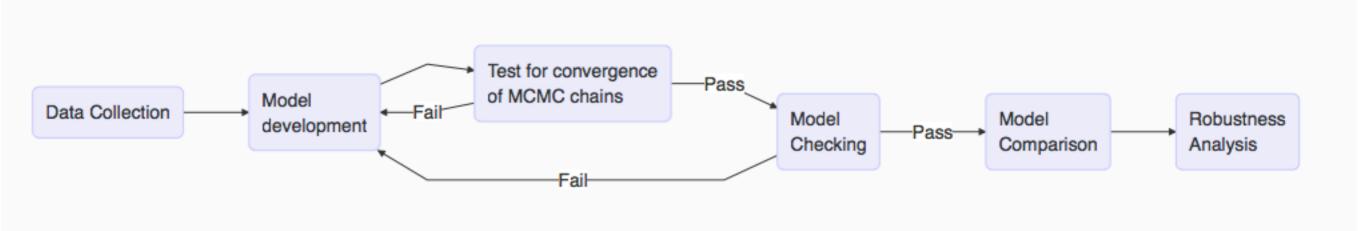
## Analysis: Mapping onto modelling workflows — Bayesian Modelling



#### Adapted from [@Conn:2018hd]

### Fail to check and report influencePost-hoc rationalisation

Fail to ensure

known

PRIOR SELECTION

measured on same scale as likelihoodData-peeking "SPARKing": specifying priors after results are

#### **MODEL CHECKING**



 Failure to undertake and report <u>all</u> model checking

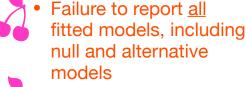


Failure to check assumptions of model(s) is/are not violated, failure to report



 Hacking model checking statistic in any way

#### MODEL SELECTION / COMPARISON





 Failure to report <u>all</u> covariates for each model

#### ROBUSTNESS ANALYSIS

(prior sensitivity analyses, simulation analyses where assumptions violated etc.)



 Failure to report <u>all</u> analyses undertaken



 Hacking analyses until desired result obtained



#### MCMC CONVERGENCE



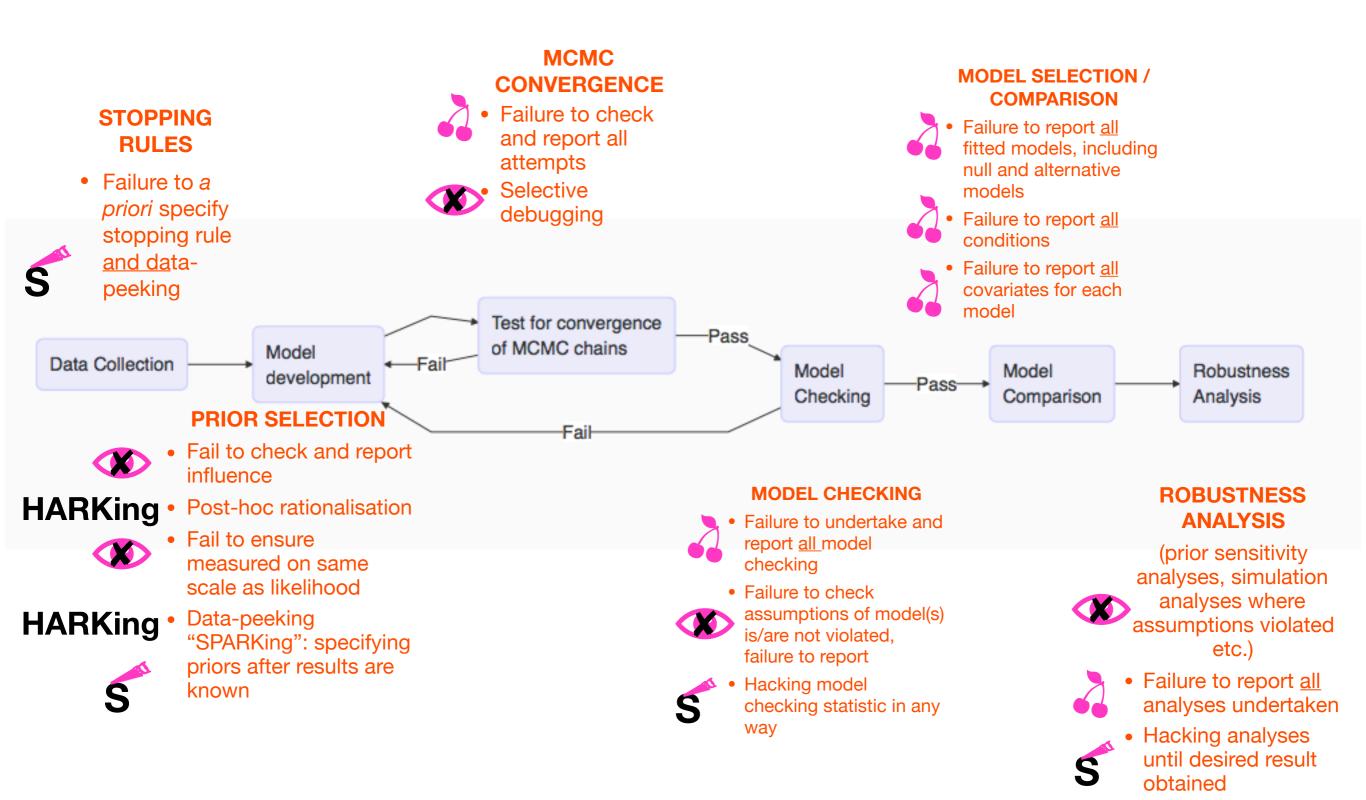


#### STOPPING RULES

Failure to a priori specify stopping rule and datapeeking



# Analysis: Mapping onto modelling workflows — Bayesian Modelling



Adapted from [@Conn:2018hd]