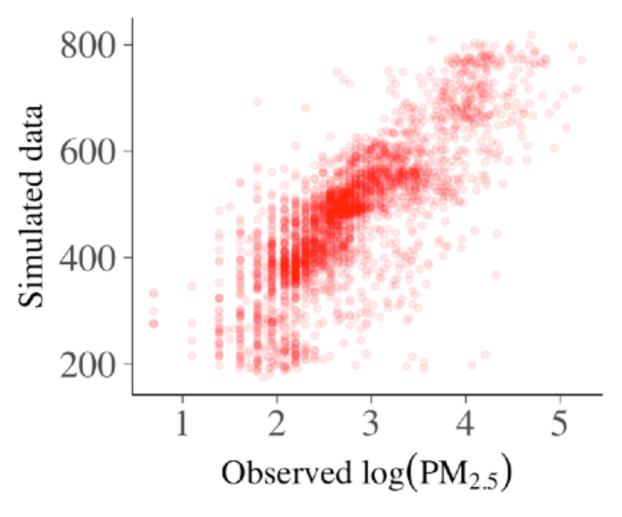
What do vague/non-informative priors imply about the data our model can generate?



$$\alpha_0 \sim N(0, 100)$$
 $\beta_0 \sim N(0, 100)$
 $\tau_{\alpha}^2 \sim \text{InvGamma}(1, 100)$
 $\tau_{\beta}^2 \sim \text{InvGamma}(1, 100)$

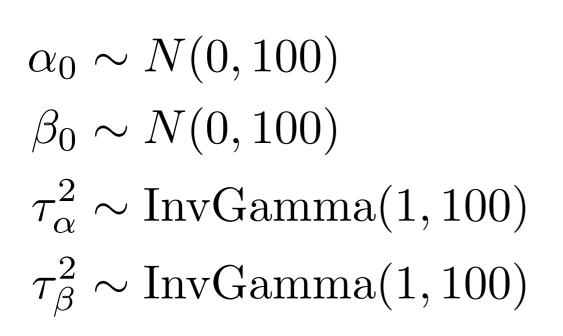


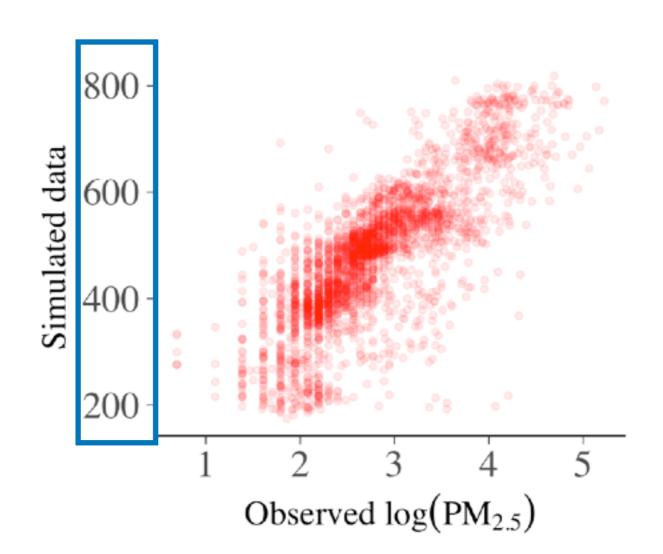
Prior predictive checking: fake data is almost as useful as real data

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Prior predictive checking:

fake data is almost as useful as real data

- The prior model is two orders of magnitude off the real data
- Two orders of magnitude on the log scale!

