

Matt Graham Corrections

Dennis Prangle

October 10, 2017

Main corrections

- Page 38 - Comment on criticisms of Bayesian model choice, such as high sensitivity to priors and problems for misspecified models, perhaps with reference to Bernardo and Smith's concept of "M-closed" and other settings in "Bayesian Theory" (Section 6.1.2).
- Pg 199 - Discuss reasons for taking $\delta t = 1$ rather than $\delta t \ll 1$ in the Lotka-Volterra SDE example.

Minor corrections

- Some Radon-Nikodym derivatives were written with ∂ symbols.
- Page 31 - "in figure 1.4 we assume the local latent and observed variables are conditionally independent given the global latent variables". Reword to make clear that it's conditional independence of (y, z) pairs of the other pairs.
- Pg 103 - Mention condition that p must be absolutely continuous with respect to q .
- Pg 107 - Introduce the notation Y, ν used for the measure of the latent variables.
- A few mathematical terms not defined e.g.
 - Pg 172 - "foliation"
 - Pg 181 - "submersion"
- Pg 157 - Clarify: "a generative model... will not uniquely define the resulting joint distribution". It could be argued this should be the other way round.
- Pg 200 - Clarify why population blowup is a problem for inference.
- Pg 201 - Confirm that ABC summary statistics were normalised.
- Pg 237 - First term of (5.37) seems incorrect.

Typos

- Pg 88 - "The variables $x \in X$ on which the target distribution P which we wish to estimate integrals with respect to..."
- Pg 104 - "with they also giving"
- Pg 106 - "assumption of that the"
- Pg 108 - "we known that"
- Pg 133 - " $j \in \{1..j - 1\}$ "
- Pg 163 - "contribution from to"
- Pg 167 - "it challenging to monitoring"
- Pg 176 - "left target distributions"
- Pg 183 - "from the that proposed"
- Pg 190 - "with they employing"
- Pg 197 - What does "grouped chains" refer to?
- Pg 202 - "conditioned on the summary statistics of the data being within a distance of $\epsilon = 2.5$ of the data" should end "of the observed summaries".
- Pg 204 - "we can simply defined"
- Pg 213 - "and these with which a model can be repurposed"?
- Pg 223 - "a sequence of... transition operator... are defined"
- Pg 227 - "with they linking"
- Pg 227 - "in of the"

- Pg 228 - “momenta however” -> “momenta. However”
- Pg 234 - “to corresponds to”
- Pg 234 - “respect to the the”
- Pg 240 - “the as result of”
- Pg 292 - “Maria Antonieta Nunes” -> “Matthew A Nunes”