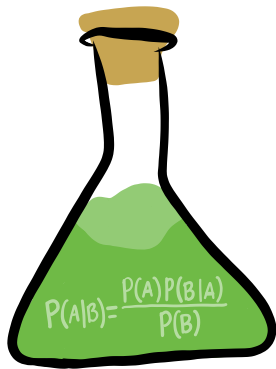**Wessel Bruinsma**

21 October 2018

A BAYESIAN TRUTH SERUM

Wessel Bruinsma

21 October 2018

Ask question with response in $\mathcal{X}$.

Do you like this painting? $\mathcal{X} = \{\text{yes, no}\}$.

Ask question with response in $\mathcal{X}$.

Do you like this painting? $\mathcal{X} = \{\text{yes, no}\}$.

 $: \mathcal{X} \to \mathbb{R},$

Ask question with response in $\mathcal{X}$.

Do you like this painting? $\mathcal{X} = \{\text{yes, no}\}$.

$$\text{🧪}: \mathcal{X} \to \mathbb{R},$$

$$\text{🧪}(\text{truthful response}) > \text{🧪}(\text{untruthful response}).$$

GM + prior/posterior + principle

Formula

assumptions + proof

Recap slide. link to slides link to writeup Prelec, D. (2004). A Bayesian Truth Serum for Subjective Data. *Science, 306*(5695), 462–466.