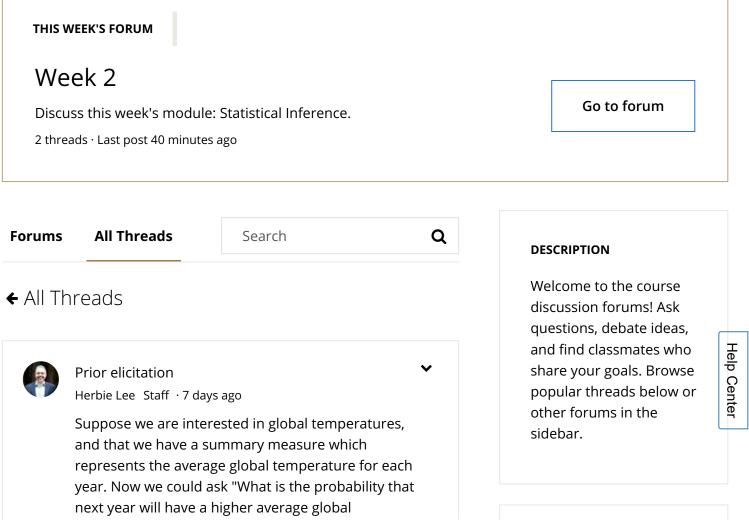
Discussion Forums

Get help and discuss course material with the community.



temperature than this year?" What would be your choice of prior and why? Be specific about the distribution and its parameters. You may use any other information that you want to bring into this problem.

🖒 0 Upvote · Follow 0 · Reply to Herbie Lee

MODERATORS



V



>

Learn more about becoming a Mentor

Forum guidelines

Earliest Top **Most Recent**



Konstantinos Ioannidis · 6 days ago

Normal with mean as the average global temperature this year and a very small standard deviation (since we don't expect big jumps in average temperature in one year)

⊘ 0 Upvote · Hide 1 Reply



Herbie Lee Staff · 4 days ago

Here we are interested in the probability that the temperature is higher than last, not necessarily the value of the temperature itself. Do you still want to use a normal distribution?

🖒 0 Upvote

SD

Reply

Reply



상언 박 · 5 days ago

Suppose a next year's average temperature $y_{(n+1)}$ and saved data $y_{1,...,y_n}$. theta is a probability of the temperature growth over $y_{(n+1)}$ -maxyi(1 to n). The prior distribution must be shown as Beta distribution. And we can make binomial likelihood (theta^x)*((1-theta)^(1-x)). I don't know how to make theta's distribution to be Beta.

🖒 0 Upvote · Reply



Antonio Carlos da Silva Senra Filho · 5 days ago

I could use a beta distribution for likelihood given that a sequence of the years that was hotter than the previous year, which could create a sequence of "success" and "failure" based on all the pairs of year collected by the data. The prior could be another beta distribution with alpha=1 and beta=1, assuming that the next year could be hotter or not with equal probability.

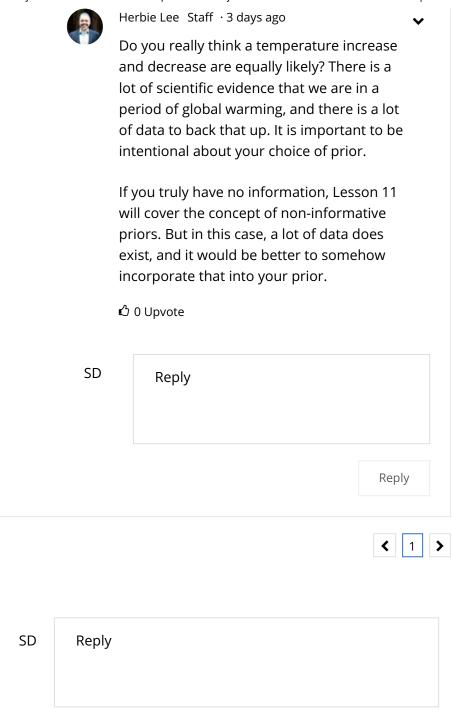
🖒 0 Upvote · Reply

MK

Michał Koziarski · 3 days ago

I would simply pick beta distribution with alpha = beta = 1, the reason being I don't have good justification for either choice and I'd rather base my opinion on data.

🖒 0 Upvote · Hide 1 Reply



Reply