

Temperature and Birth

Does birth rate correlate with temperature?

What is a ζ ?

Temperature and Birthrate for over 100 years

Each ζ is a record of temperature for a month, and a population growth percentage nine months after
Include Plot of an outcome.

The random sequence in my problem.

Temperature average in a month can be viewed as a normal distribution with a mean and variance that is different for each month.

Growth percentage averaged over a month can be seen as a normal distribution as well. Here the mean and variance may be constant. I will have to analyze.

Plot of some outcomes.

will include plot soon

Stationarity of the random sequences

I suspect temperature will be cyclostationary and birthrate will be actually stationary.

I will have to calculate this.

Expected Value of Sequences

Calculate using scipy. Plot the data for each.

Cross-correlation

Perform this such that the outcome for temperature is compared against months that are 9 out from the original.
Plot this.

Discuss Outcomes VS Reality

Compute the student T as related to this situation.