**Lesson 9 Discussion**

Time series models account for serial correlation of observations, and arises in many practical situations. Describe such as situation you have or you might encounter. How does the serial correlation manifest itself in this situation? How can you account for the serial correlation in this case?

To receive credit, post you thoughts and then comment on at least one other post. Your post must be original and based on your understanding of this subject, consistent with the [University of Washington Student Conduct Code (Links to an external site.)](https://www.washington.edu/cssc/for-students/student-code-of-conduct/).

The workloads in my organization are correlated with the different periods of the year, but also with the previous months. For many processes, our cycle is annual, but we also identify other processes with monthly or biannual behaviour.

This pattern between periods is known as autocorrelation, and the repetition of the pattern over the medium and long term is called seasonality or periodicity.

One of the most clear pattern happens in our [cancellation platform (Links to an external site.) (Links to an external site.)](https://offset.climateneutralnow.org/), with strong increases in traffic during the months of December and January, and significant decreases during the months of July and August.

Another time series that is easy to identify is the number of products delivered per month. And while every month we have significant workloads and many deliverables, it is in September-October and April-May where workloads spike, as the most important meetings take place in November and June.

Identifying all these patterns and their autocorrelations has helped us to better schedule our work and predict future workloads.

I think in one way or another all companies are measuring with time series, but many of them are not aware that they are performing this type of exercise. They simply say, -it happens every year-