

Pre-class assignment #22

PHY-905-005
Computational Astrophysics and Astrostatistics
Spring 2023

This assignment is due the evening of Monday April 24, 2023. Turn in all materials via GitHub.

Reading:

1. **Required:** Chapter 11, “Time series analysis” (pp. 292-336) of *Modern Statistical Methods for Astronomy*, by Feigelson & Babu
2. **Optional:** “Understanding the Lomb-Scargle Periodogram” by J. VanderPlas [arXiv:1703.09824](https://arxiv.org/abs/1703.09824), also [source code for paper](#)

Your assignment:

1. In the file `ANSWERS.md`, write down any questions that you have about the material you read, any points that are not clear, or anything you’d like to know more about. Aim for at least 3 questions/unclear points/etc.
2. In the Jupyter notebook that accompanies this assignment, work through the exercises.

Handing it in: Include your modified notebook and your answers to the questions (in the file `ANSWERS.md`) in your assignment.