

# ENV 797 - Time Series Analysis for Energy and Environment

## Applications | Spring 2026

### Assignment 1 - Due date 01/15/26

Si Min (Lucy)

#### Directions

Before making any edits to this file, please rename it such that it includes your first and last name (e.g., “LuanaLima\_TSA\_A01\_Sp26.Rmd”)

Once you have this renamed file open in RStudio, the first thing you will do is replace “author:” on line 3 with your name. Then you will start working through the assignment by **creating code and output** that answer each question. Be sure to use this assignment document. Your report should contain the answer to each question and any plots/tables you obtained (when applicable).

When you have completed the assignment, **Knit** the text and code into a single PDF file. Submit this pdf using Canvas.

#### Questions

Q1. What are your previous experiences with time series analysis, R, and Git?

Answer: I have some experience with forecasting with LSTM, SARIMAX and XGBoost. I have taken a course on R and Git.

Q2. For this part we just want to see the path to your R project. No need to do anything. The output will be automatically generated once you knit your file.

Answer: This is my working directory:

```
getwd()
```

```
## [1] "/Users/Loosimin/Desktop/ENE797 Time Series/TSA_Sp26/Assignments"
```

Q3. Copy and paste the link to your forked repository on Github. It should look like this: “[https://github.com/lmmlima/TSA\\_Sp26](https://github.com/lmmlima/TSA_Sp26)”

Answer: [https://github.com/loosimin16/TSA\\_Sp26](https://github.com/loosimin16/TSA_Sp26)