

## Homework 7

### Task

Download the following files from Canvas: (Sometimes, safari has download/preview issues. Try chrome or other browser instead.)

1. hw7-introds-fa23.ipynb
2. SpikeSorting.mat
3. synthetic\_spike\_labels.csv

Follow the instructions in the notebook. Write out relevant lines of code, produce outputs and plots that are asked for, and respond to questions in markdown, if any.

### Submission

Your homework submission must be uploaded to Gradescope as a PDF file. Some ways to convert your notebook to PDF:

- If you are using Jupyter, open it in a web browser and print to PDF. This should be easy because the notebooks are already opened in a browser.
- If you are using VS code, you can export your finished notebook to an HTML file, open it in a browser, and print to PDF.

### Penalties

You will lose 0.5 points in your submission for each of the following infringements:

- Not matching your pages to the problem number on Gradescope.
- Submitting a PDF that is a single, excessively tall page

Your assignment will not receive full credit if:

- We cannot see your plots, code, or response to questions. (Historically, students have found that Google Collab and Spyder does not render PDFs very well.)