**System Requirements:**

* **Operating System:** Windows 10
* **Software:** MATLAB R2020b

**Installation Guide:**

**Step 1: Download the Code**

1. Download the [code](https://github.com/the-wang-lab/PV-Stimulation-Example) to a local folder (referred to as **PathC**).

**Step 2: Set Up MATLAB**

1. Open MATLAB and navigate to **PathC**.
2. In the MATLAB command window, enter:

PathPV(PathC)

and press **Enter**. This will add the necessary code directories to the MATLAB path.

**Step 3: Download Example Datasets**

1. Download the example datasets from the following link: [Example Datasets](https://maxplanckflorida-my.sharepoint.com/:f:/g/personal/wangy_mpfi_org/Ehi-ZIxjT1pNn1PFZfNvO1kBp2XHVLRt40a1KejmV7DOiw?e=XYcfKA)
2. Open the file **RecordingListPyrInt.m** and modify the variable **listRecordingsActiveLickPath** to match the actual paths where the dataset is stored.

**Step 4: Run the Data Processing**

1. In the MATLAB command window, enter:

ProcessPyrNeurons(PathS)

and press **Enter** to start data processing.

* + **PathS** refers to the directory where you want to store the analysis results.
  + Different folders under **PathS** contain results for different types of analyses.

**Time estimation**

Downloading time depends on the network speed

Data processing time: for the datasets provided, it should take less than an hour to complete the processing.