Installing Python3

1. Anaconda Navigator

We will install Python3 via Anaconda Navigator.
To install Anaconda Navigator
Go here

https://docs.anaconda.com/free/anaconda/install

Select your operating system by clicking one of

- Installing on Windows
- Installing on macOS

Select
"Download the Anaconda installer."

2. Create an environment for this course

We will use several Python packages.
We will bundle these into something called an "environment".

Using **Anaconda Navigator**:

- Select "Environment" (on the left panel)
- Select "Create"
- Name the environment `statmech_2025`
- Use the default python version

When the environment has been created

- Click the "play" button
  (looks like a solid / filled right pointing arrowhead)
- Select "Open Terminal"
- When the terminal pops up, type the following commands one-by-one.

```
conda install numpy
conda install scipy
conda install matplotlib
```

```
conda install sympy
conda install pandas
```

Each `conda install` line may prompt you for a response. Answer `y` to all questions.

Or **from the terminal** type directly:

```
conda create --statmech_2025 python=3.9
conda activate statmech_2025
conda install numpy scipy matplotlib sympy pandas
```

To exit the environment type: `conda deactivate`

3. Install Anaconda applications

- Within Anaconda Navigator select "Home" (on the left panel)
- In the bar at the top, make sure it says
  "All applications" on "statmech_2025"
- Find the JupyterLab application, select "Install"

4. Download/open files and start Jupyter Notebook

Either download the data from the github repository ([here](#)'s the link) or copy it from the pen drive. Then follow these instructions:

1. Activate Your Conda Environment (if using Conda)

If you're using Conda, first activate the environment where Jupyter is installed:

```
conda activate my_env
```

Replace `my_env` with your environment name.

2. Launch Jupyter Notebook

Once in the correct environment, start Jupyter Notebook by running:

```
jupyter notebook
```

This will open a Jupyter interface in your default web browser.

Using Anaconda Navigator

1. Open **Anaconda Navigator** (search for it in the Windows Start Menu).
2. Click **"Launch"** under Jupyter Notebook.

Using Command Prompt or PowerShell (better for MacOS users)

1. Open **Command Prompt (cmd)** or **PowerShell** (`Win + R`, type `cmd` or `powershell`, and hit Enter).
2. Navigate to your desired working directory:

```
cd path\to\your\folder
```

3. Run:

```
jupyter notebook
```

Using Windows Start Menu

If Jupyter Notebook is installed system-wide, you can also search for **"Jupyter Notebook"** in the Windows Start Menu and open it directly.