

Practical Statistics

For Particle Physicists

Statistics Lectures and Hands-ons

The statistics course will consist of 3 lectures of 90 min each. Each lecture will have both a "theory" component and "hands-on" exercises.

The hands-on session will be based on **Jupyter notebooks** built using the **numpy/scipy/matplotlib** stack.

If you have a computer, **please install anaconda** before the start of the class. This provides a consistent installation of python, JupyterLab, etc.

→ *Alternatively, you can also install [JupyterLab](#) as a standalone package.*

→ Another solution is to run the notebooks on the **public jupyter servers** at [mybinder.org](#). This will probably be slower but avoids a local install.

Lecture 1 have the theory part only (the hands-on will be given as homework)

Please be prepared to run the hands-ons during lectures 2 and 3 !

Statistics course resources

The lecture notes and resources for each lecture are listed below:

Lecture 1	Lecture Notes	notebook [solutions]	binder [solutions]
Lecture 2	Lecture Notes	notebook [solutions]	binder [solutions]
Lecture 3	Lecture Notes	notebook [solutions]	binder [solutions]

- **Use the notebook links if you have a local install:** save the notebook locally and open it with your JupyterLab installation.
- **Use the binder links to use public servers:** the links will open the notebooks in a remote server sessions in your browser.

Notebooks with solutions to the exercises will be posted after the lectures.

Please let me know in case of technical issues running the notebooks!