

Programming in Python for Data Analysis and Statistics.

Monday 08 February 2021 - Friday 12 February 2021

Scientific Programme

The workshop will be divided into two parts. The first part, from Day 1 - Day 3, is for python beginners and includes an introduction to python programming and version control. The second part, from Day 3 - Day 5, builds on the first part to equip you with necessary tools to carry complete large data analysis projects, including statistical analysis and visualisation, within the python environment.

Day 1 - How to run python and elementary data types

On day one we will start with an introduction to programming and python.

Day 2 - Basic programming and version control

On day two we will introduce you to programming flow control in python and version control using git.

Day 3 - Advanced topics

On day three we will introduce file handling, use of functions, package installation, Bippython etc.

Day 4 - Introduction to Pandas

Having learned basic programming in python on day four we will introduce you to a python package called Pandas. Pandas is a fast and powerful tool for data analysis.

Day 5 - Statistics and visualisation

On the final day, we will explore statistical analysis and visualisation with python.