Introduction to Data Analysis and Visualisation with Python

Content

Python is a modern programming language which is also much used for Statistical Data Analysis and Machine Learning. It has become a core tool of choice for a wide range of researchers spanning over multiple disciplines. The aim of the present workshop is to give the participants a first step hands-on practical session on Python and Jupyter Notebooks. Introduction to basic Python and its tools for working with data, doing descriptive statistics and visualization are practiced. The use of own datasets is encouraged.

Learning outcomes

At the end of the course, participants can with Python:

- import and summarize data

- manipulate data frames

- explore data with descriptive statistics and graphics

- produce high quality publication level graphics

Trainer:	ScITS Team (PD Dr. S. Haug, Dr. K. Sipos, Dr. Guillaume Witz et al.)
Target Group:	(Post)Docs planning to work with Python to analyse and visualise data.
Language:	English
Nr of Participants	17
Requirements	No prior knowledge in Python is assumed, however, basic statistical school knowledge is required for simple statistic metric.
Dates	2022-02-21, 2022-02-28, 2022-03-07 from 09:00 to 17:00.
Location	University of Bern / UniS, Schanzeneckstr. 1, room A015
ECTS	1 (24h attendance plus 1 hour preparation)
Further Information	Participants must bring a Wi-Fi enabled laptop.