IMPRS UFAST Focus Course
Introduction to Python for Computational Science
Hans Fangohr
Hands-on exercise : Martin Lang and others
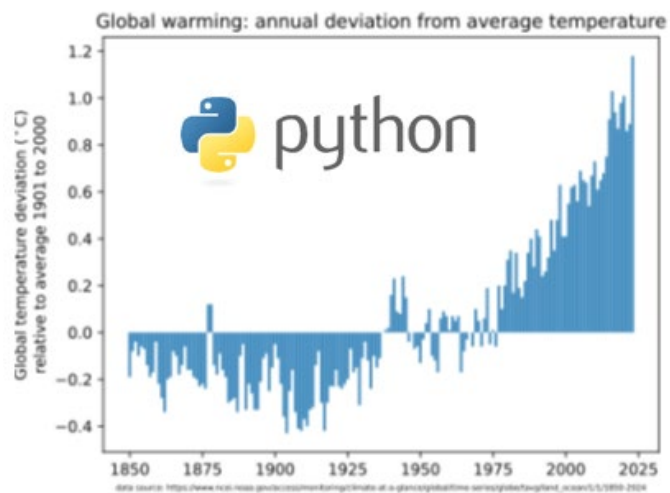
Abstract:

The course has been designed for scientists and engineers to teach the practical programming skills that are relevant for modern computational science. The module does not assume prior programming knowledge of participants. The module uses hands-on activities for all participants to exercise and experiment with the taught material. The course introduces skills that are advantageous for scientists who need to handle data - be it from experiment or simulation – and provides a basis for self learning or directed learning of more specialized topics at a later stage. We recommend to also attend the follow up module "Advanced Python for Computational Science".

Topics include:

- Introduction to Python
- Data types & structures
- Control flow
- Functions
- PEP8
- Name spaces
- File Input/Output
- Numpy
- matplotlib
- Spyder
- Jupyter

Online Course
3rd – 7th February 2025
10:00 h -17:00 h

Register on Geventis I-UF FC1-1
Register on Indico
Registration deadline
27th Janaury 2025