

IMPRS UFAST focus course

Introduction to Python for Computational Science

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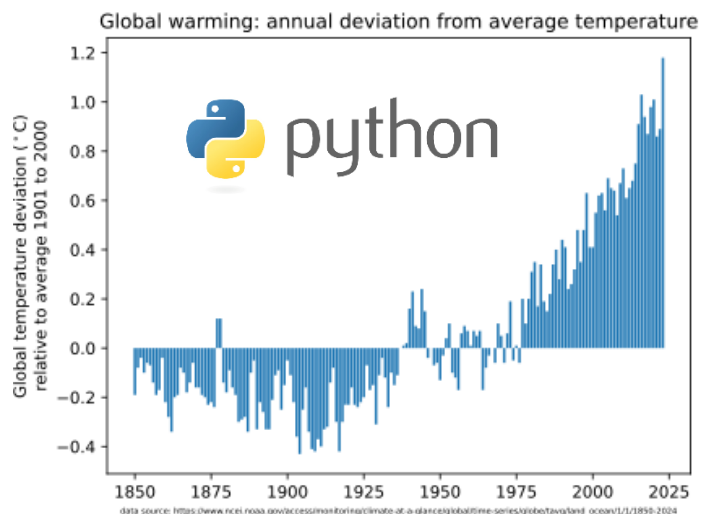
Hands-on exercise : Martin Lange and others

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

9th – 13th February 2026

10:00 h -17:00 h

Registration deadline: 2nd February 2026

Register via Geventis I-UF FC1-1 or Indico. If you have a Geventis account, you must do both.

<https://indico.desy.de/event/50904/>

