# Python Crash Course

# Aims

Python is a widely used programming language, which is suitable for the entry into programming. This course is aimed at people without programming knowledge who have always wanted to know how a computer program works. Since programming is mainly "learning by doing", participants write small programs themselves during the course.

# Content

The workshop addresses:

1. - Basics of programming
2. - Variables, statements, expressions, and everything in between
3. - functions
4. - Conditional statements
5. - Iterations - Tools for repetitive tasks
6. - Data Structures - Lists, Strings, Tuppel, and Dictionaries

# Methods / Tools

Course materials are provided online on the day of the course. The book "How to Think Like a Computer Scientist" by Jeffrey Elkner, Allen B. Downey, and Chris Meyers (http://www.openbookproject.net/thinkcs/python/english2e/) provides an excellent introduction to programming despite the older version of Python used in it. This introductory course was originally designed on the basis of this book.

**Target Group**Doctoral Candidates & Postdocs

# Workload Lecture 7h.

# About the Trainer

Maxim Samarin (University of Basel, )

# Dates 5th of November, 9-12.30 and 13.30-17.00

# Course Fees This course is free of charge and for doctoral candidates and postdocs of the University of Basel only (min. 5, max. 25 participants).

# Location TBD