Introduction to Python – Tuesday, August 13

Introduction to Python will focus on scientific computing and data science. We will cover basic language concepts as well as specific tools for linear algebra and data science.

More precisely, the class will be divided into three parts:
- Python basics
- Linear algebra and scientific computing, with numpy & spicy
- Data Science, with pandas

The class is designed for people with no experience in Python, but who would like to start using it on some scientific application. However, some (past) programming experience with at least another language is strongly recommended. In particular, students are expected to be comfortable with basic notions such as variables, if-else, loops, lists, etc.

We will introduce each topic enough so that you can quickly start using Python for your own problems. The workshop will be interactive, with many examples (that the participants can play with during the session).

About the Instructor: Leopold Cambier is a fourth-year PhD student in ICME. He currently works with Professor Eric Darve on fast algorithms for linear systems, typically arising from the discretization of PDE's. He also did two summer internships (summers 2016 and 2017) at NVidia, working on cuDNN and cuBLAS. Leopold obtained his Bachelor’s degree in Engineering and a Master’s degree in Mathematical Engineering from Université catholique de Louvain in Belgium. More info at https://web.stanford.edu/~lcambier/