

Accelerated computing with Python

Accelerating Python with GPU's and Multi-core devices

Syllabus

GPU computing with Python is aimed at intermediate and advanced Python developers who need to accelerate parallelisable algorithms. Some of the core topics covered are as follows:

1. Understanding how OpenCL and CUDA map work to compute devices.
2. Managing memory on the compute device.
3. Writing compute kernels to process data in Numpy arrays.
4. Computing Fourier transforms over multi- dimensional arrays.
5. Optimisation tips for getting the best out of kernels.

The day includes interactive exercises that are designed to solidify knowledge.

Experience level

Advanced users only: must be proficient in Python and comfortable with learning a small amount of C.

Course delivery and logistics

All of our workshops are taught by example from instructors that really care about you and your staff, with close attention paid to maximising educational value. Each day of training is approximately 6 hours of engagement plus breaks, and some workshops may span over multiple days. With regard to logistics we have a number of options available including:

- On premises, where we come and teach the course using your facilities (additional cost).
- Online via video conferencing (available worldwide).

In order to keep the educational quality high we keep class sizes in the range of 1-16 participants. A workshop can be repeated for as many times as necessary to cover your training needs. This workshop may be combined with our other course offerings to create a tailored "boot camp" experience spanning several days.

Ready to commit?

So great to go on this journey with you! Click on the links below to enrol in a course or send us an email. We will be in touch soon to discuss logistics!

Enrol in Course | Email Pelagos