Propose a vacation student project for Summer 2019

Deadline for making your proposal(s): 17:00 Friday 22 March 2019. This is a hard deadline.

This form is for one project proposal, so to propose multiple projects please submit a separate form for each project. Any queries, do ask - Toby.

Project supervisor email *

christos.kotselidis@manchester.ac.uk

Title of the project *

Accelerating DeepLearning algorithms with TornadoVM

Source of funding *

- School funding requested
- You have your own funding (e.g. research grant)

Objective of the project *

The objective of the project is to use TornadoVM to accelerate AI and DeepLearning algorithms on GPUs and FPGAs

Number of students requested (justify if > 1) *

1

Start date, end date, total duration (weeks) *

03/06-30/08
The benefit to the School *
Increase the impact of TornadoVM in the AI domain.

The benefit to the student *
Learn about DeepLearning and compute acceleration.

Skills needed by the student. *
Strong Java Skills

Details of the work that the student would do *
The student will port a number of widely used DeepLearning algorithms on the TornadoVM API and evaluate the performance improvements of hardware acceleration on GPUs and FPGAs

Infrastructure requirements and any required staff support other than the project supervisor *
Standard x86 equipment

Supervision arrangements throughout the duration of the project (named staff and dates covering the entire duration) *
Christos Kotselidis weekly meetings

Location of the project work (building/room) NB projects must be on-campus *
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