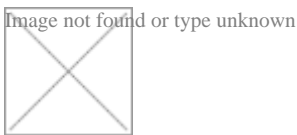# PUMPS Summer School

Objectives

This course is delivered by the **GPU Center of Excellence (GCOE)** awarded by NVIDIA to the Barcelona Supercomputing Center (BSC) in association with Universitat Politecnica de Catalunya (UPC).BSC and UPC currently offer a number of courses covering CUDA architecture and programming languages for parallel computing. Please contact us for possible collaborations.

The eighth edition of the Programming and Tuning Massively Parallel Systems summer school (PUMPS) is aimed at enriching the skills of researchers, graduate students and teachers with cutting-edge technique and hands-on experience in developing applications for many-core processors with massively parallel computing resources like GPU accelerators.

Requirements

Basic CUDA knowledge is required to attend the course. Applicants that cannot certify their experience in CUDA programming will be asked to take a short on-line course covering the necessary introductory topics C, C++, Java, or equivalent programming knowledge. Skills in parallel programming will be helpful

[Academic Staff](#)

Summer School Co-Directors: **Mateo Valero** (BSC and UPC) and **Wen-mei Hwu** (University of Illinois at Urbana-Champaign)

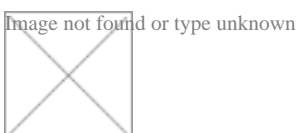*Local Organizers*: Antonio J. Peña (BSC), Victor Garcia (BSC and UPC), and *Pau Farre* (BSC)

Distinguished Lecturers: **Wen-mei Hwu** (University of Illinois at Urbana-Champaign) and **David Kirk** (NVIDIA Corporation)
Invited Lecturer: Juan Gómez-Luna (Universidad de Córdoba)
BSC / UPC Lecturers: Xavier Martorell and Xavier Teruel

[Further information](#)

For more information please visit the PUMPS website.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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