

[ACM Europe Summer School on HPC Computer Architectures for AI and Dedicated Applications](#)

Objectives

The 2023 ACM Europe Summer School on “HPC Computer Architectures for AI and Dedicated Applications” will take place from 2 - 7 July in Barcelona, Spain, hosted by the Barcelona Supercomputing Center (BSC-CNS) and the Universitat Politècnica de Catalunya (UPC).

ACM, the Association for Computing Machinery, is the main sponsor of the school. The school counts on the support of Huawei, the Spanish Supercomputing Network (RES) and the European Processor Initiative (EPI).

The summer school addresses young computer science researchers and engineers and is open to outstanding MSc students. Sixty accepted participants will spend one week in Barcelona, attending formal lectures, invited talks, and other activities. The school will cover accommodation expenses and catering during school hours. The school offers a limited number of 250 euros travel grants for students needing support.

[Uri Weiser](#) (Technion) will address state-of-the-art HPC architectures, followed by one session dedicated to accelerators by [Per Stenström](#) (Chalmers University). [Jesús Labarta](#) (BSC) will lecture on highly parallel techniques & performance optimisation. [Josep Lluís Berral](#), [Rosa Badía](#) and [Jorge Ejarque](#) (BSC and UPC) will cover topics related to distributed data analytics. [Luca Benini](#) and [Andrea Bartolini](#) (University of Bologna) will dedicate their lecture to RISC-V microprocessors design. The closing session of the school will include a lecture by [Mauro Olivieri](#) (Sapienza University), a talk on Quantum Computing by Alba Cervera (BSC) and a final keynote by BSC’s Director, [Mateo Valero](#). In addition, Turing laureate [Leslie Lamport](#) will entertain a conversation on his past scientific life and current research activities.

All attendees will receive a certificate and a complimentary ACM student membership upon school completion. During the one-year complimentary membership, students will receive electronic subscriptions to *Communications of the ACM*, ACM’s flagship magazine, and *XRDS*, ACM’s magazine written and edited by students for students. Students will also receive access to online books, videos and courses from leading provider Skillsoft on today’s most sought-after job skills. And much more.

The general Chairperson of the school is [Mateo Valero](#), Director of the Barcelona Supercomputing Center. Dr Fabrizio Gagliardi (ACM and BSC) is the school's director and co-leads the local organising committee with Prof. Eduard Ayguadé (UPC). Prof. María Ribera Sancho (BSC and UPC), Dr Amalia Hafner (BSC) and Ms Andrea Sansano (BSC) are members of the Organising Committee.

The registration period will be available until the 15th of April AoE.

Accepted candidates will be informed by 28 April.

- The agenda is available [here](#).

- Further information [here](#).



Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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