

Stephen Beller

Best EuroHPC User 2026

Exemplary EuroHPC User

Major project on **MareNostrum5** via the **Extreme Scale Access Mode**. Showed strong management skills, and made efficient use of computing resources.

Seismic Imaging

Imaging of geological structures beneath the ocean floor to study the **Earth's crust's formation**. Can inform decisions on energy, carbon storage, and environmental management.

Recognised Excellence

Successfully carried out **large-scale simulations** making efficient use of both CPU and memory resources, consuming **489,000 nodes** over a year.

Thomas Sallour

Best EuroHPC User 2026

Exemplary EuroHPC User

Conducted a major project on **MareNostrum5** and **MeluXina** via the **Extreme Scale and Regular Access Calls** and made particularly good use of HPC systems.

Ocean Modelling

Research on global metocean modelling to improve **3D simulations of storm surges**. Will help coastal communities prepare for **extreme weather conditions**.

Recognised Excellence

Very positive interactions with the **hosting entities**. Worked with Application Support Teams to create an **optimised code** making more efficient use of hardware resources.

Ilja Rausch

Best Paper

Multilingual AI for EU Institutions

Paper: *"Mitigating Catastrophic Forgetting in Multilingual Continual Pretraining: Lessons from EU Institutional LLMs"*.
Used the **Leonardo Booster**.

Research Contribution

Focuses on improving **EU Institutional LLMs** to support the 24 official languages, while **reducing catastrophic forgetting** during continual pretraining.

Recognised Excellence

Selected for its **relevance to EU institutional needs**, strong methodology, and practical value as a guide for developing multilingual LLMs.

Rodrigo Bartolomeu

Best Paper

Faster Particle Simulations

Award Best Paper for their submission *"Scaling and performance aspects of the P3M method on multiple GPUs"*. Conducted on the **MareNostrum 5** Accelerated partition.

Research Contribution

Focuses on improving simulations of **long-range electrostatic interactions** by using a flexible software library based on Ewald and P3M methods for CPUs and multi-GPU systems.

Recognised Excellence

Selected for its contribution to making **more efficient simulations** on modern supercomputers, highlighting the importance of **balancing calculation and communication**.