

# Certificate

**Quoc Bao Ngo**

has participated in **PRACE's Autumn School 2021 in Finland**

**Harnessing the EuroHPC Flagship Supercomputers**

**11.10-15.10.2021**

**Lecturers:**

Dr. Jussi Enkovaara (CSC), Dr. Mikko Kerttula (Kajaani Datacenter), Dr. Michael Klemm (AMD), Dr. Daniel Klocke (MPI-M), Dr. Markus Koskela (CSC), Dr. Alfio Lazzaro (HPE HPC/AI Research Lab, HPE Switzerland), Veli-Antti Leinonen (Kajaani Datacenter), Dr. Talgat Manglayev (University of Helsinki), Dr. Pekka Manninen (CSC), Dr. Georgios Markomanolis (CSC), Dr. Szilárd Páll (PDC, KTH Royal Institute of Technology), Jukka-Pekka Partanen (Kajaani Datacenter), Dr. Fredrik Robertsén (CSC), Asst. Prof. Pekka Ruusuvuori (University of Turku), Prof. Dr. Thomas Schulthess (ETH Zurich / CSCS), Dr. Mats Sjöberg (CSC)

The full course consisted of **36 hours of lectures** on modern GPU-accelerated high-performance computing [GPU programming and code optimization | machine learning methods | scientific case studies on using GPUs in various disciplines | visiting CSC's Data Center in Kajaani] **and hands-on tracks** [Introduction to deep learning | Introduction to GPU programming with OpenMP | Hackathon: Optimizing GPU applications on LUMI supercomputer].

We hereby recommend granting **1.5 credit (ECTS)** for the course.



Tiina Leiponen  
Training Manager (CSC)

