

Aryan Eftekhari -Università della Svizzera italiana (USI)

Swiss Education for the Future Generation of Computing

Abstract: The Master of Science degree in Computational Science (MCS) at the Università della Svizzera italiana (USI) offers students the opportunity to acquire an in-depth understanding and set of skills in computational science, involving data science, high performance computing, statistics, and artificial intelligence. It provides an innovative combination of methodological and applied competencies in both computational and data science, which endow students with the knowledge and skills that are needed to operate at the forefront of science and industry. The MCS is fostering a synergistic advancement of all components of computing and data sciences. It will educate students to rethink and develop novel mathematical methods, algorithms, and software to use such emerging computing modalities, or to fuse models and data to extract structure from complexity across disciplines. The MCS provides the foundations of a new form of computational thinking, and it trains master students to use various computing modes and advancements in mathematics, algorithms and software to address challenges presented by science or society. Through the EUMaster4HPC project and continued support from the Swiss National Supercomputing Center (CSCS), USI students benefit from advanced curriculum materials and access to current and future generation high-performance computing (HPC) and HPC-related technologies.

A short CV for the speaker

Aryan Eftekhari is a postdoctoral researcher at the Department of Economics at HEC Lausanne, and the Advisor of studies for the EUMaster4HPC project at Università della Svizzera italiana (USI). His research centers on parallel algorithms for large-scale machine learning and multivariate statistical problems. He received his PhD in Computational Science from USI where he is also a fellow of the Institute of Computing at USI.