ETP4HPConference 2024

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Meet the Speakers

Amandine Samson - EUMaster4HPC Projectr Manager, University of Sorbonne, EUMaster4HPC

Damien Gratadour - Senior Research Scientist at Observatoire de Paris, CNRS

Utz-Uwe Haus - Head of Hewlett Packard Enterprise EMEA Research Lab

Jean-Yves Berthou - Director of the Inria Saclay Research Center

Dr. Stephan Schenk - Product Manager for High Performance Computing at BASF SE in Ludwigshafen, Germany

Amandine Samson - EUMaster4HPC Projectr Manager, University of Sorbonne, EUMaster4HPC

Amandine Samson is manager of the EUMaster4HPC project at the Faculty of Science and Engineering of Sorbonne Université.
She works jointly with Prof. LABBE Stéphane, Prof. SMETS Didier and Prof. SAFEY EL DIN Mohab for the coordination of the EUMaster4HPC project. Sorbonne Université is leader of the WP5 "Students' and Teachers' mobility, industrial internships, research/ supercomputing centres internships".
Amandine studied political science and international relations. She had the opportunity to spend part of her degree in Finland and worked in Canada for a few months.
Since moving to Paris, Amandine has worked in higher education and research, successively at the Université Paris Diderot (now the Université Paris Cité) and the Fondation Maison des Sciences de l'Homme, before joining the International Divison of the Faculty of Science and Engineering of Sorbonne Université in June 2023.

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Damien Gratadour - Senior Research Scientist at Observatoire de Paris, CNRS

Damien holds a PhD in Observational Astronomy from Université Paris-Diderot (2005). He has been an Adaptive Optics (AO) fellow, responsible for the last stages of commissioning of the Altair AO system on the Gemini North Telescope in Hawaii (2006) ; and an Instrument Scientist (2007-2008), for GeMS, the Gemini MCAO System, a facility featuring 6 Laser guide stars. Since 2008, at Observatoire de Paris - PSL, Damien has been leading an original research program on high performance numerical techniques for astronomy including modeling, signal processing and instrumentation for large telescopes. He has been the P.I. of several large programs at national and European levels targeting AO Real-Time Controllers for giant optical telescopes with emerging computing technologies. Since 2021, with France officially joining SKAO, he is also getting strongly involved in the French effort dedicated to the construction of this giant radio-telescope. In particular, he is currently the inaugural head of ECLAT, a joint laboratory between CNRS, INRIA and Atos/Eviden, as a long-term support structure federating resources from academic and industrial teams that will engage in the R&D work for the French contribution to the SKA.

Utz-Uwe Haus - Head of Hewlett Packard Enterprise EMEA Research Lab

He studied Mathematics and Computer Science at TU Berlin. After obtaining a Doctorate in at the University of Magdeburg he worked on nonstandard applications of Mathematical Optimization in Chemical Engineering, Material Science and Systems Biology. He has worked as a Senior Researcher at the Department of Mathematics at ETH Zürich, and was co-founder of the Cray European Research Lab in Basel, developing the Mathematical Optimization and Operations Research group, working on data-dependency driven workflow optimization on future HPC architectures. He is currently working on secure HPC workflows, integration of HPC with Gaia-X, and large scale digital twins.

Jean-Yves Berthou - Director of the Inria Saclay Research Center

Dr. Jean Yves BERTHOU joined Inria in February 2019 as director of the Inria Saclay Research Center. Created in 2008, this center has 550 scientists, forming 42 research teams, and 60 collaborators working in research support services. The main scientific and technological priorities of Inria Saclay Research center are IA and data sciences, scientific computing and optimisation, cybersecurity, safety, proof and verification, quantum science, Human Machine Interactions with a strong focus on Bio&Heath, energy, transport, defense challenges. The centre is a key player in research in the digital sciences on the Saclay campus. It promotes the values and projects that give Inria its originality in the research landscape: scientific excellence, innovation and multi-disciplinary partnerships to maximise Inria's scientific, economic and societal impact.

From 2015 to 2019, Jean-Yves was Director of Innovation for the EDF Business Unit Transformation and Operational Efficiency (6000 employees) which produces and operates IT, real estate, purchasing, and tertiary (HR, accounting, ...) services and products for the entire EDF group. Jean-Yves set up a dynamic innovation approach, which has resulted in the industrialization of more than 250 innovations and nearly 70 partnership contracts with start-ups.

From 2011 to 2015, Jean-Yves was head of the Numerical and Mathematical Department (NuMa) at the French National Research Agency (ANR), in charge of organizing the selection, funding and monitoring of research projects as well as setting up European and international collaborations.

From 1997 to 2011, he held various positions within the research department of EDF, EDF R&D. He was successively researcher, project leader and manager before becoming head of the Simulation program and the Information Technology program of EDF R&D.

For 15 years, Jean-Yves was regularly called upon by the European Commission for expert missions, particularly in the fields of High Performance Computing, open science or research and innovation strategy. Jean-Yves was part of the European Commission's high-level expert group on the European Open Science Cloud in 2016. He initiated in

2010 EESI's European support action, the European Exascale Software Initiative, www.eesi-project.eu. EESI has produced a European roadmap preparing for the arrival in 2020 decade of infrastructure, software and applications for high-end Exascale

scientific computing. This roadmap has been widely disseminated and has had a great impact in Europe and internationally.

LinkedIn

Dr. Stephan Schenk - Product Manager for High Performance Computing at BASF SE in Ludwigshafen, Germany

He made his first contact with HPC during his studies in chemistry in 2000. He remained in this field obtaining a PhD in Computational Chemistry in 2006. After a postdoctoral stay at ETH Zurich, he joined BASF in 2010. He currently heads the team providing the supercomputer platform QURIOSITY that empowers BASF colleagues to leverage HPC to rapidly turn data into successful innovation and insights. The current second generation of the platform comprises 1200 HPE Apollo nodes with AMD 7543 and 7763 CPUs for a sustained LINPACK performance of 3 PFLOPS.

He also serves as a member of the Invited Program Committee for the ISC High Performance conference series as well as the Scientific Council of the John von Neumann Institute for Computing (NIC) Jülich. Furthermore, Stephan is a deputy chairman of the High Performance Computing and Quantum Computing working group at Bitkom, Germany's digital association.

His interest focuses on democratization of HPC across businesses and leveraging the highly innovative technologies of Next Generation Computing, especially Quantum Computing.

View my LinkedIn profile at https://www.linkedin.com/in/stephan-schenk

Sai Narasimhamurthy - ETP4HPC SRA 6 Leader

Sai Narasimhamurthy is the ETP4HPC Office expert in charge of the ETP4HPC Strategic Research Agenda. Sai is Senior Technologist and Project Manager (R&D) working with ParTec AG. Sai previously headed EU R&D for Seagate Systems where he has actively led and contributed to multiple European led HPC and Cloud research initiatives over a decade, incl. coordinating and providing technical leadership for projects such as SAGE and Sage2. Going back, Sai was CTO and Co-founder at 4Blox, inc, a venture capital backed storage infrastructure software company in California addressing IP SAN(Storage Area Network) performance issues. Sai obtained his PhD from Arizona State University in the area of high performance data storage.