

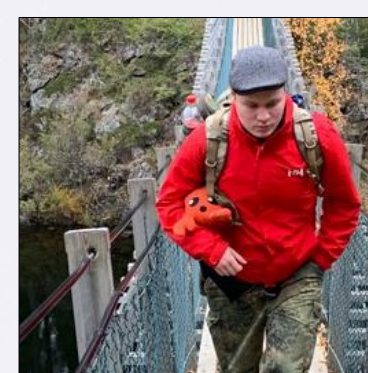


Team Revontuli

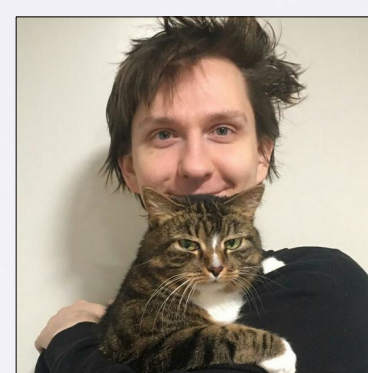
Niklas Halonen, Roope Salmi, Leopekka Saraste, Huy Trinh, Ilmari Vahteristo, Matias Zwinger
Advisors: Dr. Jussi Enkovaara, Dr. Jussi Heikonen



Meet the team



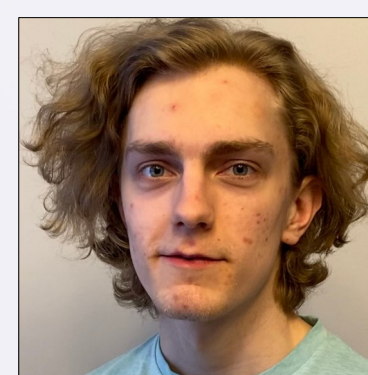
Niklas Halonen
Electrical engineering
DevOps consultant,
Rust teacher



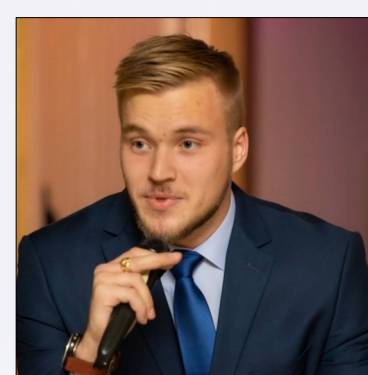
Leopekka Saraste
Physics
Scientific Software,
OpenMP & MPI



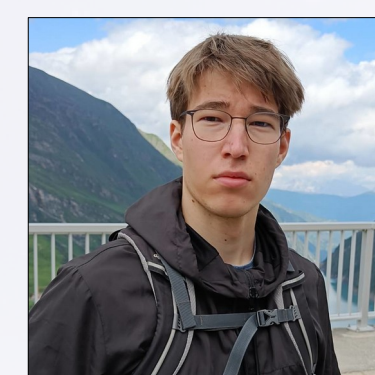
Huy Trinh
Computer Science, Math
Embedded software,
FPGAs



Roope Salmi
Computer Science
Competitive programmer



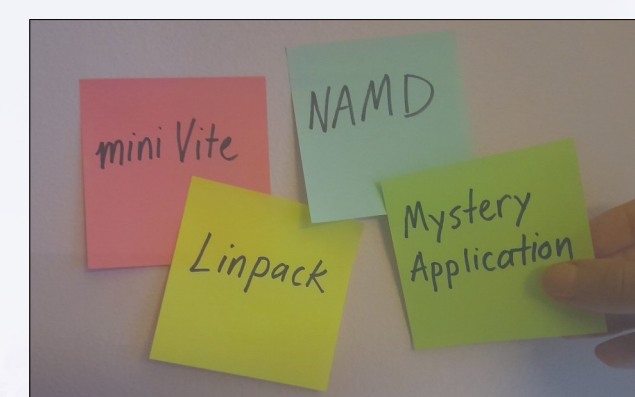
Ilmari Vahteristo
Computer Science
Data-analysis



Matias Zwinger
Computer Science
Linux system specialist

Our strategy

- ✗ Practicing the competition applications in advance
- ✗ Our brilliant advisors with tens of years of hands-on experience with HPC are of great help and have given us insight into the different topics we will encounter.
- ✗ Diversity is our strength, as we all learn from one another on the different areas each of us is proficient in.
- ✗ Our team's knowledge and experience in using different kinds of HPC platforms, including cloud resources, is something we'll aim to utilize. We've had access to supercomputers employing different processors, GPUs and software stacks.



Training regimen

Training sessions every few weeks including themes like:

- ◆ Theory lessons in HPC topics
- ◆ Running IO500, HPCG, LINPACK etc. on different supercomputers
- ◆ Building, compiling and benchmarking mystery applications
- ◆ GPU programming with CUDA and HIP



CSC – IT Center for Science Ltd – on our side providing us access to all major supercomputers available in Finland, including:



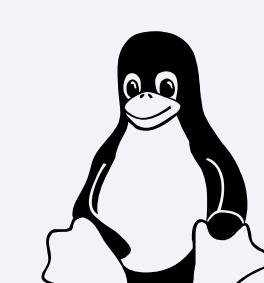
- ◆ HPE Cray EX “LUMI” - Top500 #3
- ◆ Atos BullSequana X400 “Puhti” w/700 Intel nodes and an Nvidia V100 GPU partition
- ◆ Atos BullSequana XH2000 “Mahti” w/1400 AMD nodes and an Nvidia A100 GPU partition

Supporting:



Finland

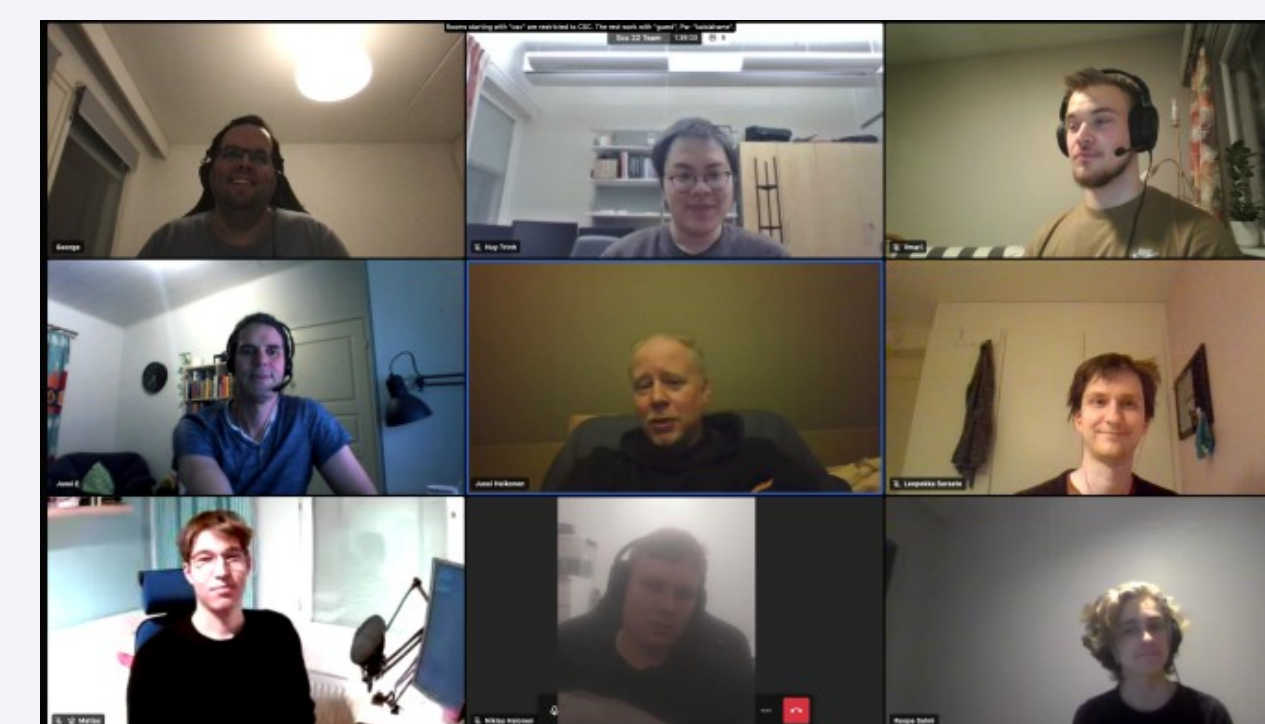
Finland is a cold arctic country with beautiful northern lights and snowy scenery. The arctic weather makes it an excellent location for hosting and cooling supercomputers. It's the birthplace for such technological wonders as Nokia, Linux and the SSH protocol.



Why you should root for us

We're the first Finnish team at IndySCC so we're very excited to get a chance to compete and showcase our talents. We are also planning to travel to Dallas to experience the Supercomputing conference and SCC live and to meet the fellow students.

Our team members are students with different majors, years and skills. We live in different parts of Finland, studying in a total of 4 different universities.



Contact us at
revontuli@csc.fi