

CSIT Cheatsheet v2.1

Full documentation: <http://scicomp.aalto.fi> / wiki: <http://do.cs.aalto.fi>
<http://scicomp.aalto.fi/aalto/welcomeresearchers.html>

Who?

- CS-IT: Handles CS workstations, CS data, technical procurement, loans of IT supplies. **We are here to help you and experts in facilitating research.**
 - A243 - physical location, guru@cs.aalto.fi - support address, instruction sites at top. wiki.cs.aalto.fi. CS IRC: !cs on IRCnet
- Aalto Science-IT: Triton (Aalto HPC cluster) and scientific software
 - <https://scicomp.aalto.fi/triton/issues> - issues
 - esupport-triton@aalto.fi - account requests
 - <http://scicomp.aalto.fi/triton/> - instructions + Scientific computing guides.
- Aalto IT (ITS): Handles Aalto accounts and all basic infrastructure
 - [servicedesk@aalto.fi](mailto: servicedesk@aalto.fi) - ITS support address. Non-CS matters.
 - service desks: Main (Otakaari 1M) U133a, M-F 08:00-15:45, TUAS 1163, M-Th 8:30-11 and 12-15, F 8:30-9:30 and 12-15
 - <https://it.aalto.fi>
- CSC: Finland's national computing center, <https://research.csc.fi>

Accounts and networks *info: it.aalto.fi*

- Accounts are managed by Aalto ITS, not CS-IT.
- Activation/password reset: <https://password.aalto.fi> (w. online bank ID) or srv desks.
- Wifi: aalto open: open network, everyone. eduroam: personal computers, access to protected resources. aalto=for Aalto-managed systems.
- <https://basi.cs.aalto.fi> / <https://lapa.aalto.fi>: CS personal info management.
- Accounts can be extended once you leave, ask HR for visitor contract.

Scientific Computing *info: scicomp.aalto.fi*

- Triton (see above) has 2PB storage, ~6000 CPUs, GPUs, large mem, scientific software. Free, uses Aalto account and Aalto data, ask for access from Science-IT.
- We have various scientific software on workstations.
- <https://inside.aalto.fi/display/ITServices/IT+Services+for+Research> - List of common Aalto services.
- Additional computational resources can be found from CSC. Link above.

Data management *info: scicomp → Aalto/Data*, Data/**

- Aalto provides many free, central, secure, backed-up storage locations. **Avoid local storage when you can!**
- Data should be stored in project directories, not home directories.
- Three main locations: project (backed up), scratch (large, no backups), archive.
- Senior staff can request new projects, see CS-IT wiki. Data can be shared with any number of people.
- Use Aalto Git for version control for code, papers, etc.

Workstations and laptops

- Most are Aalto managed: login with Aalto account, passwords kept in sync. Must log in once on Aalto network before it can work.
- For heavy computation, we usually provide a powerful computer and most work is done on Triton

Linux workstations and laptops *info: scicomp → Aalto/Linux workstations*

- Primary user can install own Ubuntu packages. Use Software Center or:
 - search: `apt-cache search` install: `apt-get install package-name`
- Module system: additional software, `module spider $searchterm` and `module load $name`. (desktops only). E.g. Python/tensorflow/etc ("anaconda3"), Matlab, etc.
- Network drives (CS, Triton) available at `"/m/cs/*"`.
- NO local data backups: Use network drives instead. Local data lost on reinstall.

Mac laptops *info: scicomp → Aalto/Mac*

- Aalto software: Managed Software Center
- To install any software: Managed Software Center, install "Get temporary admin rights" and you can install programs (dmg files) yourself for 30 minutes.
- For advanced software, install brew. See scicomp instructions.

Windows laptops *info: scicomp → Aalto/Windows*

- Aalto software can be installed from online "Self-service portal". See scicomp.
- To install most other software, you must apply for a "wa" (workstation admin) account. See scicomp instructions.

Remote access *info: scicomp: Aalto/Remote access*

- `magi.cs.aalto.fi`: CS shell server, all filesystems mounted, can access workstations.
- `{kosh,lyta}.aalto.fi` - all Aalto people, general shell servers. `taltta`: staff
- `rds{01,02}.org.aalto.fi` - Windows terminal server, rdesktop (Aalto nets only)
- VPN: see Aalto IT instructions. Gets you on Aalto net.
- Aalto nets are: eduroam, workstation net, aalto wifi *with Aalto laptop* (130.233.*)

Printing *wiki: IT/Printing (not on scicomp yet)*

- Check wiki for instructions: <https://wiki.aalto.fi/display/CSdept/Printing>
- Secure Print is recommended: print to one queue, pick up anywhere. Identify with Aalto account / HSL card. Various locations, check wiki.
- Mobileprint: mail to mobileprint@aalto.fi from Aalto email only, pick up at Secure Print printer.
- Scanning/copying: use Secure Print printers.
- Department printers also available: they are cheaper for big jobs.