CSIT Cheatsheet v3.0

Full documentation: **scicomp.aalto.fi** / wiki: **do.cs.aalto.fi**
scicomp.aalto.fi/aalto/welcomeresearchers/

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. Chat: scicomp.zulip.cs.aalto.fi/
- Aalto Scientific Computing: Triton (Aalto HPC cluster) and scientific software
  - scicomp.aalto.fi/triton/issues - issue tracker. Chat: see CS above.
  - scicomp@aalto.fi - account requests
  - scicomp.aalto.fi/triton/ - instructions + Scientific computing guides.
- Aalto IT (ITS): Handles Aalto accounts and all basic infrastructure
  - servicedesk@aalto.fi - ITS support address. Non-CS matters.
  - service desks: Main (Otakaari 1M) U133a, W-Th ~08:30-11, 12-14 ; Väre R101, M-T ~8:30-11 and 12-15 (check for updates)
  - it.aalto.fi
  - Aalto Gitlab: version.aalto.fi
- CSC: Finland's national computing center, research.csc.fi

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

- Accounts are managed by Aalto ITS, not CS-IT.
- Activation/password reset: 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.
- lapa.aalto.fi: CS personal info management.
- Accounts can be extended once you leave, ask supervisor/HR for a visitor contract.

Scientific Computing *info: scicomp.aalto.fi*

- Triton (see above) has 2PB storage, ~10000 CPUs, GPUs, large mem, scientific software. Free, uses Aalto account and Aalto data, scicomp.aalto.fi/triton/
- We have various scientific software on workstations.
- www.aalto.fi/en/services/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 scicomp.aalto.fi. 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: `aptdcon --install PACKAGE-NAME`
- Module system: additional software, `module spider SEARCHTERM` and `module load NAME`. (desktops only). E.g. Python/tensorflow/etc ("anaconda"), 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.fi→ 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.fi → 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.fi: 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
- `vdi.aalto.fi` - Virtual desktop environment, Windows/Linux
- VPN: see Aalto IT instructions. Gets you on Aalto net.
- Aalto nets are: `eduroam`, workstation net, `aalto` wifi *with Aalto laptop* (130.233.*)

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

- Check wiki for instructions: 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.
- Poster printing available for CS, see wiki