***Calcul Quebec:***

* First register yourself. Choose Guillimin server
* To connect to the server : *ssh <username>@guillimin.clumeq.ca*
* You can add this to your *.bash\_profile : alias guillimin="ssh jtouati@guillimin.clumeq.ca"* and you’ll just have to enter *guillimin* instead of the previous command (quite useful).
* To transfer files from your system to the server :   
  *scp <yourfile> <username>@ guillimin.clumeq.ca:<repository>*   
  (run this from your system)
* To transfer files from the server to your system:  
  scp *<username>@ guillimin.clumeq.ca:<path to file > .*
* You have a .bash\_profile and .bashrc on the server. Use .bahsrc rather than .bash\_profile
* There are pre-installed modules that you’ll need to load in order to use (e.g. cmake). To see all modules available :  
  *module avail*  
  To load module (have to reload every time you login) :  
  *module load <module\_name>  
  (you can put this in your .bashrc if you need the module all the time)*
* You have to build everything from source though because you don’t have root permission to install anything yourself. You can send an email to [guillimin@calculquebec.ca](mailto:guillimin@calculquebec.ca) if you need them to install something on your session they are quite responsive.
* In terms of Disk space you have a home folder /home/<username> -> 10GB, a project space **/gs/project/<id>** id is the one shared by all the people in the group (login to calculquebec website and you’ll find it) –> 1TB
* You should work in this directory ( for us it is */gs/project/rrp-355-aa* )

See <https://wiki.calculquebec.ca/w/Accueil>

Read the next one carfully everything’s in there :

<http://www.hpc.mcgill.ca/index.php/starthere>

- To see if you have jobs running or pending enter :

*showq –u <username>*

- To run a job : you need to create a .sh file with the correct header (see bellow for examples), *submit.sh* e.g. Then just enter :

*qsub submit.sh*

Example :

#!/bin/bash

#PBS -l nodes=1:ppn=16,pmem=31700m,walltime=48:00:00

#PBS -A rrp-355-aa

#PBS -o output.txt

#PBS -e error.txt

#PBS -V

#PBS -N build\_template

cd /gs/project/rrp-355-aa/final\_data\_T2

bash buildtemplateparallel.sh -d 3 -o AVT -n 0 -c 2 -j 16 \*preprocessed.nii.gz

***Magma :***

* To connect use ssh : *ssh <username>@magma.criugm.qc.ca*
* Similarily to guillimin you have a .bashrc
* To see all the jobs currently running type :

*qstat*

* Things are installed in */usr/local/* (ants, fsl …)
* Directory to work in is */data/neuropoly/<username>*
* To run jobs use *qsub* as well. But the template creation script does it all by itself.
* Typically you’ll want to do *screen* then run your script. You can close the terminal, it will continue to run.