

# Homework 1

Wenda Zhou

September 2021

## 1 Introduction

The aim of this homework is to setup and familiarize ourselves with the remote development tools and the NYU HPC platform presented in Bootcamp 2. You can use the google docs template [here](#) to fill out your answers.

## 2 SSH setup

Configure your `~/.ssh/config` to enable passwordless login to the NYU HPC Greene cluster, as well as key-based authentication on your github account. To ensure that your setup functions properly, run the following commands:

1. `ssh greene`
2. `hostname`
3. `ssh -T git@github.com`

There should be no authentication prompts which are required, and you should see Github responding with your git username. An example session is displayed in listing 1. Please include a screenshot of your terminal with the relevant command and their output displayed.

## 3 GCP cloud bursting setup

Request a new instance on the GCP cloud bursting using the `c2s16p` partition (CPU-only). Modify your `.ssh/config` to be able to directly connect to your allocated GCP instance.

Run the command below and include a screenshot of the output in your terminal (note: I have included a redirection of `stderr` to remove some clutter, remove `2>/dev/null` and see what it looks like without the redirection).

```
ssh -T burstinstance 'cat /scratch/wz2247/cds-bootcamp/homework/url.txt' 2>/dev/null
```

