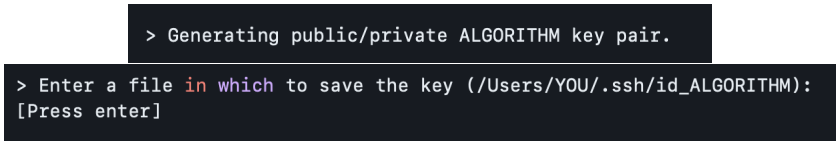
ssh for GitHub

1 Generating an ssh key

1. Check if you already have an ssh key using *ls -a*
   - If you see a hidden file called *.ssh* this contains your key. Do not do anything else and skip to 'Adding the ssh key to Github'
2. In your terminal copy the command:

   ssh-keygen -t ed25519 -C "your_email@example.com"

   - Use the same email that you use for Github
3. You will see the output:



   - You can change the file location where the key is made, but it is only necessary if you already have a ssh key.
   - You already checked for this, so just press enter
4. Next you will be prompted for a passphrase. Leave it empty (give no passphrase), and just press enter.
   - It is possible to add the passphrase to a keychain, but we wont be doing that since this creates the need for the ssh-agent.
   - If you choose to give it a passphrase then you will have to give this every time you use ssh or add the passphrase to keychain.

Now your key is generated. Find it using *ls -a*. It will be the hidden file *.ssh*

```
> Enter passphrase (empty for no passphrase): [Type a passphrase]
> Enter same passphrase again: [Type passphrase again]
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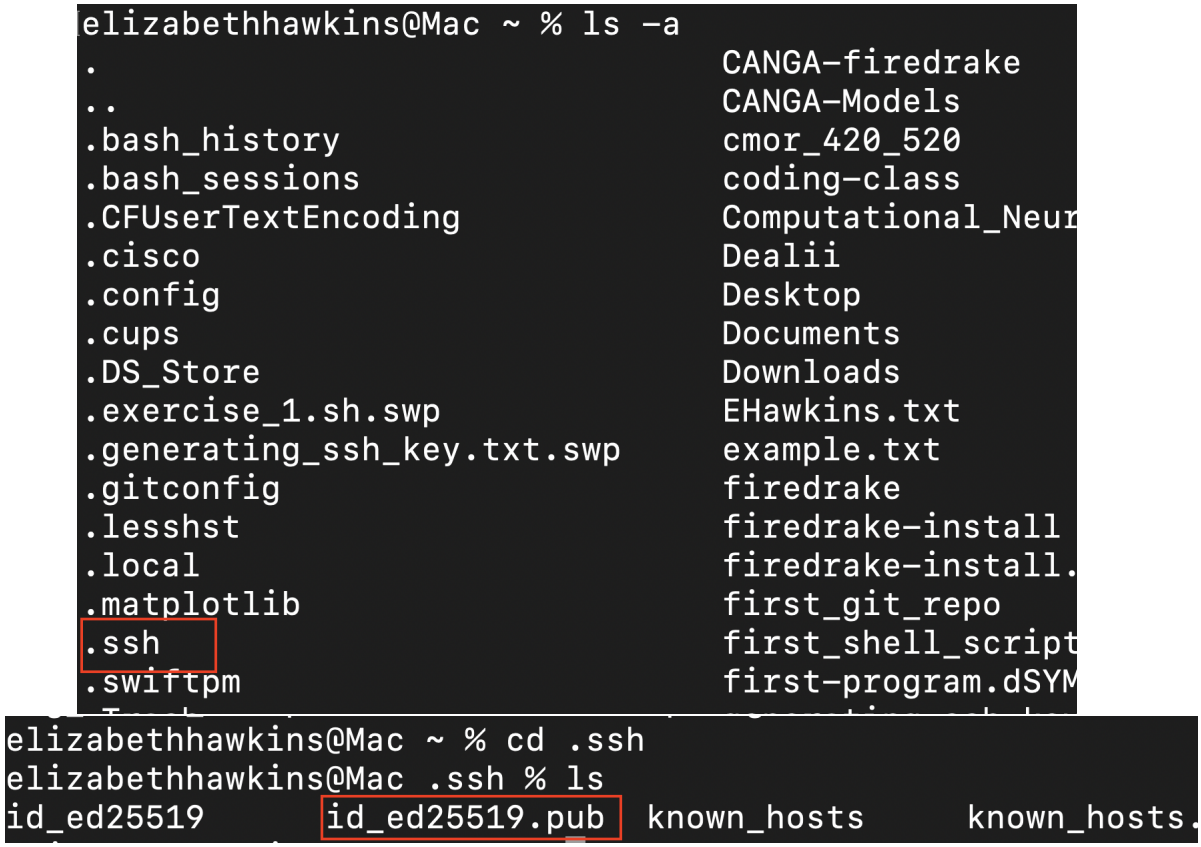
2 Adding ssh key to Github

1. Find your *.ssh* folder using *ls -a*. Use *cd .ssh* to go into the folder.



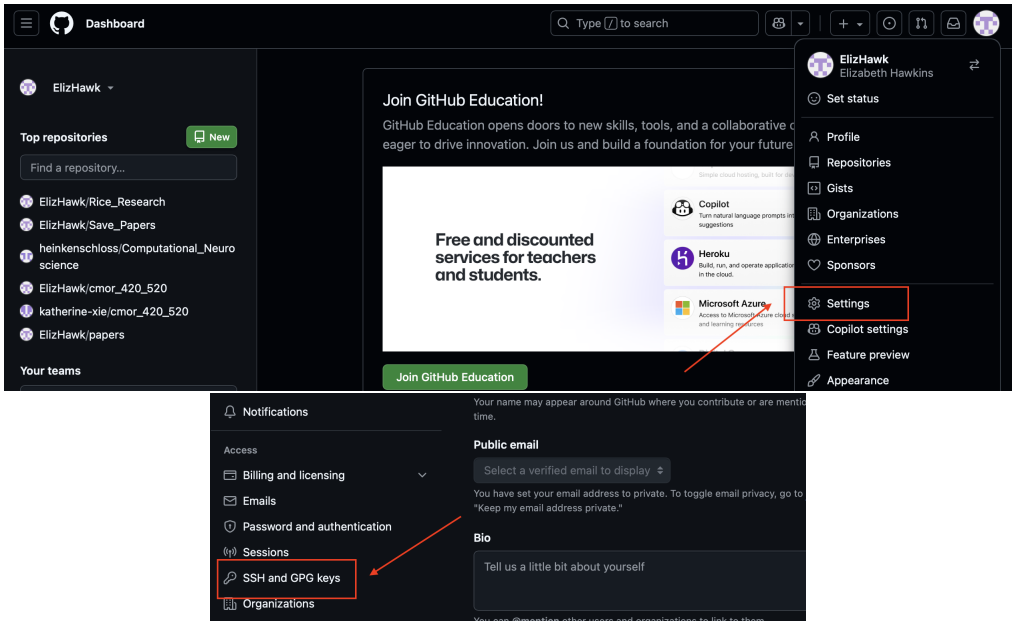
2. Use vim to open *id_ed*25519.*pub* and copy the contents

   - You can also use the command to copy the content to the clipboard:

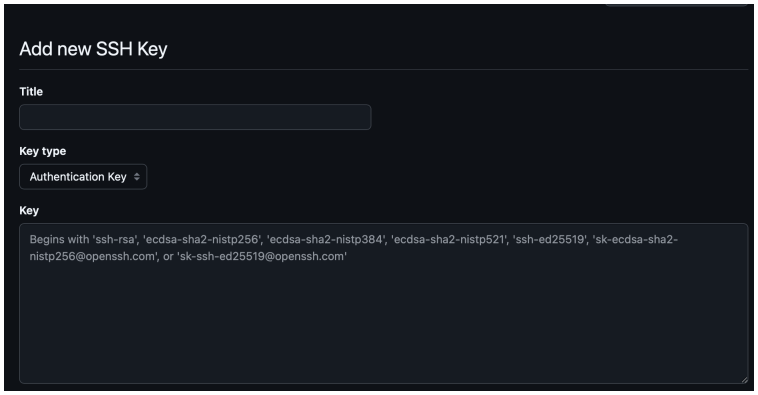
     pbcopy < /.ssh/id_ed25519.pub

   - This file contains the public information needed by the remote server to give/recieve permissions

3. Go to Github, and go to 'settings' from the upper right icon. Go to the 'ssh and gpt keys' tab.



4. Choose 'New ssh key'.
   (a) Give the key any title (it can be anything).
   (b) Paste the copied key into the space.



Now you are done! (You may have to re-clone repositories using the ssh option)