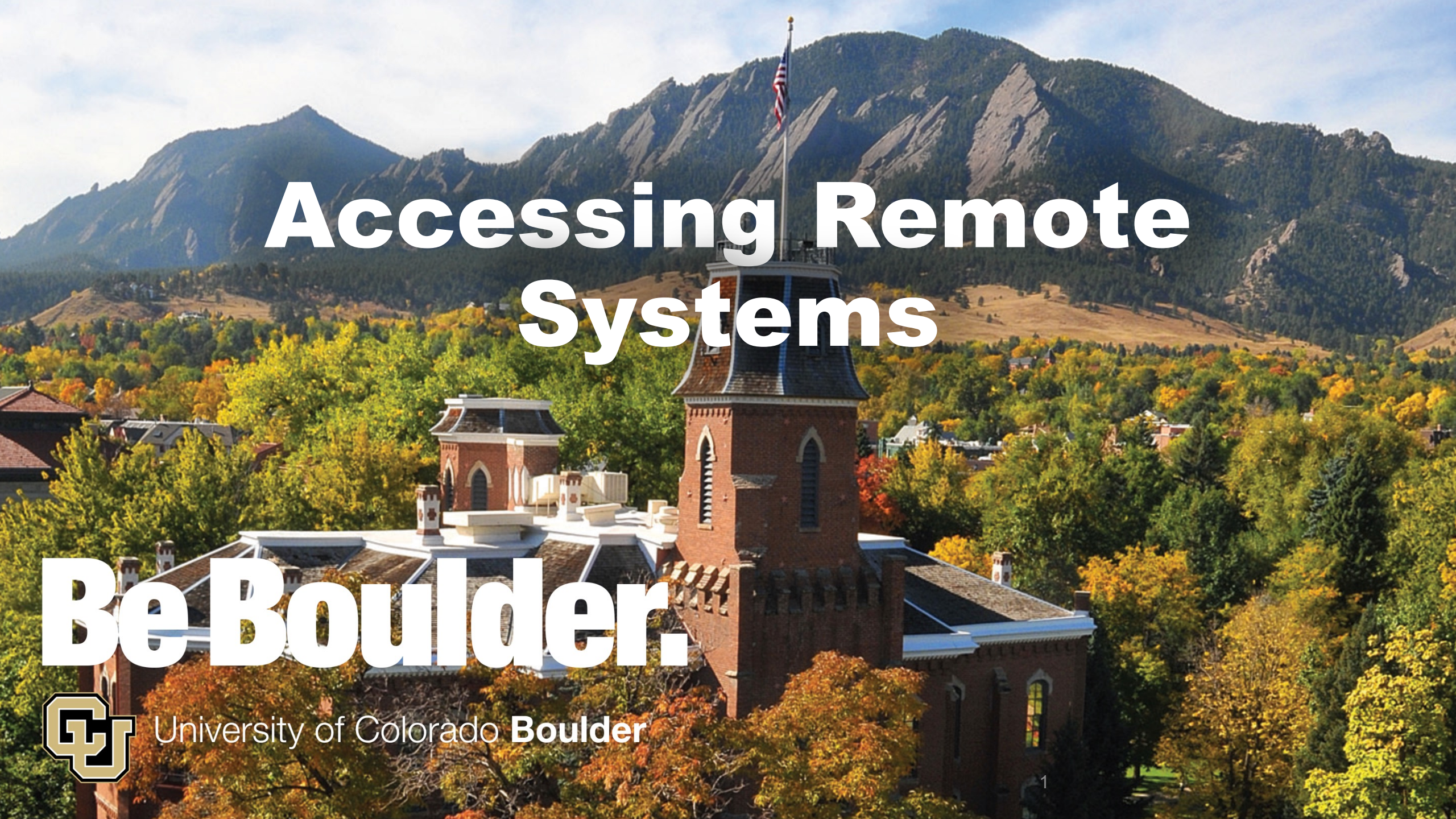
Accessing Remote Systems
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Remote Systems

- A remote system is one that you are accessing from another computer
- Unless you have built a cluster at home, or work in an HPC center, most HPC systems will require remote access
- Two ways one interacts with a remote system
  - Logging in
  - File transfer

Logging in

- Generally, one uses an ssh protocol to login to a remote system
- Provides a secure channel over which one can remotely connect
- Authenticate connection through keys, public and private
- Example:

```
ssh username@remote.hostname
```

Might have some flags after the ssh

File Transfer

- Recommend several ways
  - Depends on your needs and size of data
  - scp, sftp, wget, rsync, Globus file transfer
  - scp and sftp are good because they are secure

- Example (several ways to do this):

```
scp /home/username/file.txt
username@remote.hostname:/home/username

scp username@remote.hostname:/home/username/file.txt .
```