**Summary:**

* Theory and applications
* Audience: any student or researcher
* Explore what a VCS is, what Git is, how GitHub is different.
* Basic features: add, mv, rm, branch, merge, push, pull, clone
* Sections of theory followed by a review questions and small hands-on activities

**Workshop will be split into modules:**

1. **Intro to Git and version control systems** (theory and short review questions) ~ 15-20 mins max
   1. What is a VCS and why should we use them?
   2. What is Git?
   3. Git vs. GitHub
   4. Git Pipeline
   5. Review Questions
2. **Basic features of Git** (Hands-on activities, review questions) ~ 30 mins
   1. Creating a new project
   2. Adding, modifying, and removing files
   3. Commits and good practices
   4. Git Log File
3. **More advanced features of Git** (Hands-on activities, review questions) ~ 30 mins
   1. Branching
   2. Merging
   3. Rebasing
4. **Working with remote repositories through GitHub** (theory and hands-on activities) ~ 30 mins
   1. Collaboration and Open Science
   2. Pushing commits to GitHub
   3. Pulling commits from GitHub
   4. Cloning and Forking repositories
   5. Push Requests
5. **Conclusions and next steps** 
   1. What have we learned?
   2. GitHub Projects to hone skills + Examples

Extra: if time allows, will show students how to use git through the command line