Welcome!

Welcome to BCMB Computational Bootcamp 2021! This document will go over the different tools we will be using throughout the course for communication and information sharing. Please make sure you install software, create accounts, and complete prerequisite material before the first day of class.

1. Syllabus
    - Familiarize yourself with the syllabus

2. Zoom
    - In order to help facilitate account creation, software installation, and completion of the prerequisite materials, the TAs will be holding zoom sessions prior to the first day of class to help troubleshoot issues
        - Installation troubleshooting zoom session:
            - **Friday (8/20) from 3-5pm**
                - Link to Friday zoom call
        - Prerequisite troubleshooting zoom session:
            - **Wednesday (8/25) from 4-6pm**
                - Link to Wednesday zoom call
            - **Sunday (8/29) from 1-3 pm**
                - Link to Sunday zoom call
    - If you are unable to attend the zoom sessions but still need assistance, please contact **BOTH** TAs (Norah Sadowski and Jared Slosberg) via slack (preferred) or email. Additionally, you can post to the #prereqs channel in the class slack to get assistance from the course instructors as well.

3. Slack: https://slack.com/
    - Download the app and join the ***bcmbbootcamp2021.slack.com*** slack page via this link: https://join.slack.com/t/bcmbbootcamp2021/shared_invite/zt-tn00b6oi-f7o88945iB2ErQWjbqMWrA
    - We will use this for communicating throughout the course to facilitate code sharing and troubleshooting
    - If you have questions please ask in any of the channels and you can create messages with your classmates to encourage collaboration and socialization
    - If you get lost during the course please make a post in the appropriate day channel (ex. Monday will be in the #day1 channel)
        - The TAs will be monitoring this channel while the professor is teaching to make sure everyone is following along
        - We will try to answer questions there quickly on the channel

4. Github: https://github.com/

- Make a github account
- Github is a version control system for sharing code
  - Version Control - Episode 1 - Introduction
- A repository (usually abbreviated to “repo”) is a location where all the files for a particular project are stored. Each project has its own repo, and you can access it with a unique URL
- Initial Guide: https://guides.github.com/activities/hello-world/

5. Download Anaconda (Windows users also download Windows Subsystem for Linux) and connect to the JupyterHub
   - Most of the work we are going to do in class will be through JupyterLab, which you will be running on your own computer by following these installation instructions:
     - Link to installation instructions
   - Overview documentation: https://jupyterlab.readthedocs.io/en/stable/
   - As a backup we are also managing a cloud instance that you can access through your web browser. Included in the instructions is the process to request access to the JupyterHub. **Complete signup instructions prior to the first day of class so we can approve student access**.

6. Complete the Prerequisite Material
   - We will expect students to have read through and attempted to code along with the following modules prior to coming to class Monday morning:
     - Command Line Interface
     - Git and Github
     - Intro to Python-Part 1
   - These modules should take **~3** hours to complete

Additional Materials available:
Coursera:https://www.coursera.org/programs/coursera-for-johns-hopkins-university-zfk78/?authProvider=jhu
Software Carpentry: https://software-carpentry.org/
Data Carpentry: https://datacarpentry.org/
Katacoda Git Tutorial: https://www.katacoda.com/courses/git