# UNC Remote Bioinformatics Workshop 2020

Course leads: Peri Bolton & Chris Balakrishnan

**Course Goal:**

This course is designed to develop practical bioinformatics skills for beginners, with a particular focus on analysis of RNAseq datasets. Although there are many graphical-user-interface and command line tools out there for bioinformatics, we will focus on two commonly used command line scripting languages: R and bash. By the end of this course participants should be capable of analyzing RNAseq datasets on their own.

**Strategy & delivery:**

Previously this course has been delivered over a high intensity week. However, due to COVID circumistances, this course will be delivered remotely over two weeks, by instructor Dr Peri Bolton, with a mixture of scheduled zoom contact and in-your-own-time practical sessions. To minimize zoom fatigue, the tutorials will be conducted independently with opportunity for help using Slack. The tutorial content may be completed any time during the day prior to the daily zoom-based discussion and check in.

To maximize student retention of material, we will also have student led discussion of relevant papers and an independent group assignment for presentation at completion of the course.

**Assessment**

There will be student led discussions and a final assignment to complete. These will not be graded, but feedback will be provided. Students will work in pairs on a dataset, and work to produce a final 12 minute presentation + 3 minutes of questions. The final mini “conference” will be held on Friday 18th December.

Student pairs are encouraged to collaborate and troubleshoot tutorial problems together (on Slack, or whatever medium) and make progress on their independent project as they learn new skills throughout the length of the workshop.

**Schedule**

See Excel spreadsheet. Note that tutorials will not take the full length of time allotted in the calendar.