

SC/QR YCDO guide for remote/online mentoring for the summer 2020

- Mentors should discuss with students their possible limitations for doing online research, taking into account the student's internet capabilities, quality of social support, essential family obligations during these difficult times, etc.
- Online research this summer is not intended to occupy the student full time. We estimate 4 hours per day of independent work and/or online meetings is sufficient. We are allowing students to take a part-time job while participating in this activity if they need to do so to support their family.
- Please communicate your expectations this summer clearly to every undergrad you mentor. A guide and schedule should be provided to the students so they know when they should be participating in online meetings, discussions and when and how they should complete assigned work. Clear goals for the student should be provided, taken into account the limitations the lab has for the remote lab learning experience.
- First year students should participate in the programmatic activities offered by the YCDO. This activity is voluntary for rising juniors and seniors.
- For first year students without any previous research experience, regular online communication between immediate mentor (grad student or postdoc) and the undergrad (at least 1-2 times a week) could be centered on assignments of some sort (literature, data analysis, information trawling, or 'how to' type things). Mentors might want their students to delve into a new area of research. Give students/ask them to find relevant papers to read and encourage them to write a research plan to discuss.
- Juniors and seniors should analyze their own data, help their mentors analyze new data, work on generating figures and contribute to writing for future publications, etc. Advanced students might be able to write a mini review with you for future publication.
- PIs should host a weekly journal club for all students. This is a great opportunity for your students to read the essential literature in your field under your guidance. Please send them the papers at least a week in advance.
- Students should participate in remote lab meetings and any other remote lab events. If labs have re-opened, and lab meetings are now taking place in person, arrangements should be made for the undergraduate student to participate remotely.