

Building Undergraduate Research Skills Remotely – Cheng et al. Appendix A. Survey Questions.

Pre-Program Interest Surveys

Before programming began, the 240 Honors College life science majors were emailed a link to a Google form interest survey asking the following questions:

- Which types of events might you be interested in? Select all that apply. (*See Table 1 for all options included*)
- In general, which times of day would be best for you? Select all that apply. (*morning, afternoon, evening, no preference*)
- In general, which days of the week would work best for you? Select all that apply. (*Mon, Tues, Wed, Thurs, Fri, no preference*)
- We are considering making this into a formalized program, such that -- if you attended a certain number of events (for example, 5 throughout the summer) -- then you would be considered a participant in the program (which you could list on your resume etc). Is this an aspect of these offerings, that would appeal to you? (*yes, no, no preference or not sure*)
- Do you have any comments (e.g. ideas for types of events you might like to attend), or any questions for us?

Event Surveys After Each Summer Program Session

After each session of the Summer 2020 program, students filled out an event survey in which they were asked:

- Please rate this event, based on how engaging and/or informative you found it (*extremely, very, somewhat, not very, not at all*)
- Please write a few sentences detailing your personal response to this event. If you found this event helpful: Please describe 1 or 2 examples of specific things you learned from attending this event, that were particularly interesting and/or helpful to you. (If you did not find this event helpful: Please give us 1 or 2 specific pieces of feedback on how we can improve these types of events, to make them more helpful in the future.)

R Workshop Pre-Workshop Survey

Before the R workshop, students completed a pre-workshop interest/registration survey with the following questions:

- What statement would best describe your comfort level with the language “R”? (*I have heard of it, I have used it a little bit, I have used it a lot*)
- Have you taken a statistics class before (either in high school or college)? Note that no prior math knowledge is needed for this workshop. (*yes, no*)
- Do you have previous coding experience? Note that no prior coding experience is needed for this workshop. (*I have no coding experience, I have a little bit of coding experience, I feel comfortable writing code in at least one language*)

R Workshop Post-Workshop Survey

Students who completed the R workshop in Spring 2021 completed a post-workshop survey with the following questions:

- Please rate this workshop, based on how much you feel you learned from it (*a ton, a good amount, something but not a lot, only a few things, didn't learn anything*)
- Please rate this workshop, based on how engaging and interesting you found it (*extremely, very, somewhat, not very, not at all*)

- Please rate this workshop, based on how well-organized you found it (*extremely organized, very organized, somewhat organized, somewhat disorganized, very disorganized*)
- What were your favorite aspects of this workshop? Please give us any specific pieces of feedback about what you liked best about it.
- If you could change anything about this workshop, what would it be? Please give us any specific pieces of feedback about how we can improve this workshop for the future.
- Did this workshop make you any more – or any less – interested in potentially participating in the Remote Spring Research Program, over the remainder of the spring term? (*more interested now, less interested now, same level as before*)
- Do you have any other questions or comments for us, either about the Spring Break R Workshop, or about the potential to participate in the Spring Remote Research Program (throughout the remainder of the term)?

Follow-Up Survey

In Fall 2022, students who completed either the Summer 2020 program or the Spring 2021 program were sent a follow-up survey containing the following questions:

- Do you plan on pursuing any type of research opportunities in the future (e.g. undergraduate research, graduate research, employment in a research position, etc)?
 - Yes
 - No
 - Maybe; not sure
- How helpful were these Honors programs/events to you in: (Chart with ratings selected for each option using a 4-point Likert scale: *very helpful, helpful, a little bit helpful, not at all helpful*):
 - Preparing for and/or applying to research experiences and/or research funding?
 - Preparing for and/or applying to other types of experiences (tutoring, teaching, clinical, volunteering, etc)?
 - Preparing for and/or applying to post-college opportunities (e.g. graduate school, employment, post-bacc programs, etc)?
 - Learning about types of research & topics in the life sciences that you hadn't learned about before this program?
 - Learning about the range of different careers in the life sciences and/or health professions?
 - Gaining experience with reading primary literature, analyzing data/figures, and/or attending scientific research seminars?
 - Increasing the number of alumni/scientists/mentors available to you in your network?
- Do you feel like this program strengthened your applications to subsequent/future experiences (undergraduate research positions, employment, grad school programs, etc) in any of the following ways? Select all that apply.
 - Adding the Honors events/programming to your resume
 - Mentioning the program in personal statements and/or interviews
 - Getting direct feedback on resumes or personal statements during the program
 - Requesting a letter of recommendation from Honors College scientists
 - None of the above
 - Other: _____

Please feel free to provide any comments here about these Honors events and programs, and/or how they impacted you. (*Open response question*)

If you have already graduated, what are you currently doing? Feel free to let us know which type of job you are working, which type of grad program you are attending, etc. (If you are still in college, write “not applicable — still in college.”) (*Open response question*)