

Regulated Research Institutional/Industrial Setting Form (1C)

This form must be completed AFTER experimentation by the adult supervising the student research conducted in a regulated research institution, industrial setting or any work site other than home, school or field.

Student's Name(s) Kyra McCreery

Title of Project Associations between the Slowdown in North Atlantic Tropical-Cyclone Translation Speed and Intensifying Storm Precipitation

To be completed by the Supervising Adult in the Setting (NOT the Student(s)) after experimentation:

(Responses must be on the form as it is required to be displayed at student's project booth; please do not print double-sided.)

The student(s) conducted research at my work site:

1. Did you or your proxy (e.g. graduate student, postdoc, employee) mentor or provide substantial guidance to the student researcher?

☐ Yes ☒ No

- a. If no, describe your and/or your institution's role with the student researcher and his/her project (e.g. supervised use of equipment on site without ongoing mentorship and sign below.

The general project topic was introduced. Ideas or directions for research were provided, as well as links to where the data could be downloaded from. Kyra read all the related papers on her own, implemented the algorithms, and interpreted the results on her own

- b. If yes, complete questions 2–5.

2. Is the student's research project a subset of your ongoing research or work? Use questions 3, 4 and 5 to detail how the student's project was similar and/or different from ongoing research or work at your site.

☒ Yes ☐ No

3. Describe the independence and creativity with which the student:

- a. developed the hypotheses or engineering goals for the research project

Initial ideas as to the direction to explore were provided. She developed the ideas after exploring the related research literature

- b. designed the methodology for his/her research project

Initial ideas and directions suggested. She subsequently developed and applied the approach

- c. analyzed and interpreted data

She provided initial analyses and interpretation in the context of the literature she had read. These were discussed with her

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4. Detail the student's role in conducting the research (e.g. data collection, specific procedures performed). Differentiate what the student observed and what the student actually did.

She worked quite independently from home for the most part. Came for a 30 minute to 1 hour meeting two or three times a month, and joined 3 or 4 skype calls. Links where data could be downloaded were provided to her. She followed through on downloading, organizing and pre-processing the data. Methods and associated codes in R were indicated to her as a starting point, and she read up on these and developed them on her own. She did the entire writing on her own and then got some feedback as to organization of the narrative.

5. Did the student(s) work on the project as part of a group?

☒ Yes

☐ No

If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

1 Associate Research Scientist, 1 research scientist, and I.

Most of the time I just met with Kyra. On a few occasions, all three of us met together with her. The Associate Research Scientist sent her instructions on how to download the data needed, and also reviewed her results.

I attest that the student has conducted the work as indicated above and that any required review and approval by institutional regulatory board (IRB/IACUC/IBC) has been obtained. Copies are attached if applicable. I further acknowledge that the student will be presenting this work publicly in competition and I have communicated with the student research regarding any requirements for my review and/or restrictions of what is publicized.

Upmanu Lall

Supervising Adult's Printed Name

Columbia University

Institution

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Address

Upmanu Lall

Signature

Digitally signed by Upmanu Lall
Date: 2019.11.04 10:44:32 -05'00'

Professor

Title

11/04/19

Date Signed (must be after experimentation) (mm/dd/yy)

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