

## 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) Alana Ginsburg

Title of Project Evaluating the Relationship between Two Extreme Wind Events in Southern California for Advancements in Forecasting

### 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).
  - b. If yes, complete questions 2 – 5.
2. Is the student's research project a subset of your ongoing research or work? ☒ Yes ☐ No

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.
3. Describe the independence and creativity with which the student:
  - a. developed the hypotheses or engineering goals for the research project  

With the program Alana was chosen for, mentors pitch projects and students choose what they're interested in, therefore, I laid out overarching goals. However, Alana built on the main topic and developed much more specific questions, showing a high level of independence and creativity.
  - b. designed the methodology for his/her research project  

In the project pitch, I had laid out a general methodology followed by Alana. She went above and beyond to examine multiple subsets of the data using this methodology, which were her own ideas.
  - c. analyzed and interpreted data  

Alana was very independent when analyzing and interpreting the data. She would diligently work and then come to me with questions and findings that built on each other each day.

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## Regulated Research Institutional/Industrial Setting Form (1C) Continued

Student's Name(s) Alana Ginsburg

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.

Alana chose to work on this project working under my supervision and completed all work by herself, asking questions to understand her findings along the way. Not only did Alana learn multiple new fields (ie. meteorology, computer science, statistics), she completed a fantastic project. She processed provided data on the extreme wind database and wrote code to read, subset, and plot the data. She came up with the idea to use many combinations of the definition of one extreme wind event and use statistics (ie. correlations) to analyze relationships. She also created many maps which reflect the relationship between these events spatially. Alana completed all of this work by herself, asking questions when needed; she was extremely independent, creative, hard-working, and bright! She completed a wonderful project!

5. Did the student(s) work on the project as part of a group?  
If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

☐ Yes ☒ No

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.

Katelyn Zigner

Supervising Adult's Printed Name

University of California, Santa Barbara

Institution

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Address

Katelyn Zigner

Signature

Digitally signed by Katelyn Zigner  
Date: 2020.01.13 16:13:03 -08'00'

PhD Candidate

Title

01/13/20

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

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Email/Phone