

# 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) Derek Chen

Title of Project Simulating Nanoscale Imaging of Plasmonic Excitations and Cancer Cells under Near-field

## 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  
Derek chose his research project from several possible projects. Derek determined and worked on his own directions for research after being introduced to the project, including applying the simulation method he developed to simulate
  - b. designed the methodology for his/her research project  
Derek independently completed all methods for his projects with minor guidance from his mentor.
  - c. analyzed and interpreted data  
Derek was able to formulate conclusions by referencing previous literature with minor guidance from his mentor.

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**Continued**

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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.

After being introduced to necessary background literature, Derek independently conducted all necessary procedures, including running simulations and collecting data, with minor guidance from his mentor. Derek was able to then interpret his results based on background literature, with minor guidance from discussions with his mentor.

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)?

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.

Mengkun Liu

Supervising Adult's Printed Name

Mengkun Liu

Signature

Assistant Professor

Title

Stony Brook University

Institution

11/26/19

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

100 Nicolls Rd.

Address

mengkun.liu@stonybrook.edu

Email/Phone