

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) Mariam Quraishi

Title of Project The Effect of Sibling Status of Adolescents with Autism Spectrum Disorder on Symptom Severity and Social Development

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

Mariam worked with a subset of preliminary data which had been collected prior to the initiation of her research project. The research study from which her data set was selected is still actively recruiting subjects and collecting data.

Prior to beginning the project, I reviewed all conference abstracts, posters, oral presentations, and published articles which used data from the same research study in order to confirm Mariam's proposed research questions were not replications or significantly similar to prior projects completed by other researchers.

Mariam reviewed the measures included in the study in order to select variables of interest and to identify research questions which were interesting to her. During this process, Mariam and I met weekly to discuss her ideas. I encouraged her to complete reviews of the relevant literature in order to refine her research questions and develop sub-questions when her proposed topics were too broad.

Mariam developed original research questions, which I subsequently reviewed to confirm feasibility and originality, and which we adjusted accordingly when necessary. Once feasible research questions were identified, Mariam independently completed more in-depth literature reviews to establish what was known about her topic already, what novel information her research questions would add to the field, and develop her own hypotheses about her results based on the current evidence available.

b. designed the methodology for his/her research project

Mariam's research project involved a data set selected from an on-going research study. She therefore was not involved in the formal study design process. However, once she had developed her original research questions, she and I worked jointly to identify the inclusion criteria used to determine eligible participants included in her data set, as well as the specific measures included from which her independent and dependent variables of interest would be pulled from.

c. analyzed and interpreted data

Prior to analyzing any data, I shared lecture slides and statistics manuals with Mariam in order to introduce her to the kinds of statistical procedures we would be conducting, the reasoning for selecting specific kinds of tests based on the structure of the data and the research question, and to help her learn about the statistical package we would be using to conduct her analyses.

Mariam and I then jointly created a data analytic plan describing which tests we would be running in order to test her specific research questions. Initially, I identified which tests were appropriate to test specific questions and explained the reasoning. Mariam was later able to accurately identify which statistical tests to run in order to test specific hypotheses, as well as explain why the tests were appropriate or not.

Initially, Mariam observed me while I walked her through the SPSS interface and explained what each action was for. After observing me run descriptive statistics, a few simple analyses, and walk her through how to read the output, Mariam was quickly able to edit syntax and independently run similar analyses on her own. She independently carried out many analyses, sending me the syntax and output to review to confirm her interpretations were accurate.

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Student's Name(s) Mariam Quraishi

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.

Mariam was not directly involved in data collection for this study.

Mariam designed original research questions, selected variables of interest, identified measurement tools which included her variables of interest, conducted literature reviews, and developed hypotheses.

Mariam and I jointly developed a data analytic plan, and she observed me run statistical analyses and interpret data prior to completing analyses and interpreting data on her own.

Mariam independently authored her manuscript. I reviewed and revised her manuscript, with most feedback focused on use of citations, the methods and results sections, and confirming the paper conformed to APA stylistic formatting throughout.

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 (Erin Libsack, M.A.) was the only other person who was directly involved in Mariam's research project. I am an advanced graduate student in the clinical psychology Ph.D. program at Stony Brook University and my advisor is Matthew D. Lerner, Ph.D. (SBU faculty), who is the director of the Social Competence and Treatment Lab where Mariam conducted this project. I directly supervised/mentored Mariam over the course of this project and collaborated with her to develop/refine her ideas and methodology.

Dr. Lerner is the primary investigator of the research study from which Mariam selected her data set. Although I kept Dr. Lerner generally informed of Mariam's progress on the project, he did not directly supervise nor directly contribute content to Mariam's project.

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.

Erin Libsack, M.A.

Supervising Adult's Printed Name

Stony Brook University

Institution

100 Nicolls Rd., Stony Brook, NY 11794

Address

Erin Libsack

Signature

Graduate Student

Title

11/02/2019

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

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