

## 1. Exposure to Research and Computing

### 1. Please describe the types of research you believe computing researchers do.

### 2. What are the various fields in computing research you have been exposed to? (please check all that apply)

- Artificial Intelligence/Robotics
- Hardware/Architecture
- Numerical Analysis/Scientific Computing
- Programming Languages/Compilers
- OS/Networks
- Software Engineering
- Theory/Algorithms
- Graphics/Human Interfaces
- Databases/Information Systems

### 3. Please indicate how much you know about the following:

	Substantial amount	Fair amount	Satisfactory	Little	Nothing
1. Science of design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Research proposal write up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Research presentation preparation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Research presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Application to Graduate school	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Technical & scientific writing tools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Ethics in science	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Authorship citations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Project management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Gantt chart design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Research process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Finding research Articles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Poster design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Conference participation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**4. Generally speaking, who made each of the following kinds of decisions?**

	I did	Grad Asst/Faculty/Me together	Grad Asst/Faculty
What research techniques/materials were used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
What to do next (for example, following interim results)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**5. Which of the following did you do as part of your research experience (please check all that apply)?**

- Had primary responsibility for designing the project that I worked on
- Provided input to designing my project (someone else had primary responsibility)
- Wrote a proposal describing the research I planned to do
- Collected and/or analyzed data or information to try to answer a research question
- Did little or nothing that seemed to me to be real research
- Gained increasing independence over the course of the research
- Was able to complete my project
- Mentored other students conducting research or led a student research team
- Understood how my work contributed to the "bigger picture" of research in that field
- Went on research related field trips (to other labs, etc.)
- Attended student conference(s) that included other students from other colleges
- Plan to attend student conference(s)
- Attended professional conference(s) (not specifically for students)
- Plan to attend professional conference(s)
- Prepared/presented a poster presentation describing my research and results
- Prepared a final written research report describing my research and results
- Delivered an oral presentation describing my research and results
- Authored or co-authored a paper that was submitted for publication in a professional journal
- Plan to author or co-author a paper that will be submitted for publication in a professional journal
- None of the above

	Extremely well prepared	Fairly well prepared	Somewhat prepared	Not at all prepared
When you began your summer research project, how well prepared did you feel you were for the work you were asked to do?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**7. What types of interaction have you had with faculty during the REU experience? (check all that apply)**

- A faculty member has advised me about what courses to take.
- A faculty member has advised me on a research project.

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- A faculty member has advised me about a career decision.
- A faculty member has about graduate school.
- I have had no interaction with faculty outside of courses.
- Other (please explain)

## 8. Please describe how you felt about your level of contact with faculty during the summer research experience.

	Too much contact	About the right amount	Too little contact	Doesn't apply
Your faculty mentor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Graduate student assistant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other undergraduate students	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 9. During your research project, what was the average number of hours per week that you spent engaged in research related activities with each of the following types of individuals?

	20 + hours	10-20 hours	5-10 hours	1-5 hours	Less than 1 hour	No time with this person
Your faculty mentor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other faculty member	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Graduate assistant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other students	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 10. The REU experience (check all that apply):

- 1. Was challenging and fun.
- 2. Provided me with faculty mentorship.
- 3. Helped me better understand how to do research.
- 4. Helped me better understand how to use statistics.
- 5. Taught me about several major research approaches (e.g. experimental, survey, simulation).
- 6. Encouraged me to pursue my own interests.
- 7. Connected me with students like myself.
- 8. Connected me to faculty who are helpful.
- 9. Will improve my GPA.
- 10. Helped me decide if the field of computing is right for me.

## 11. The REU experience gave me the chance to:

Stongly Agree	Moderately Agree	Slightly Agree	Slightly Disagree	Moderately Disagree	Strongly Disagree
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### 3. Help Seeking and Coping

Please indicate your level of agreement with the following statements.

	Strongly Agree	Moderately Agree	Slightly Agree	Slightly Disagree	Moderately Disagree	Strongly Disagree
I can make friends with people from different backgrounds and/or values.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can cope with friends' disapproval of my chosen major.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can approach faculty or staff to get assistance.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can succeed in a computing/IT curriculum while not having to give up participation in my outside interests.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am committed to applying computing/IT to benefit our society.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### 21. If I were having difficulties with one of my professors, I would:

	Always	Often	Usually	Sometimes	Never
Talk to a friend about it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talk to the professor about it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talk to my advisor about it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Try to switch sections.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do nothing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### 22. If I were on a student team and having difficulties with one or more of my fellow team members, I would:

	Always	Often	Usually	Sometimes	Never
Talk to other members of my team.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talk to classmates who aren't on my team.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Try to switch teams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talk to course professor or TA about rectifying the problem.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### 23. If I have discovered that I have performed poorly on an exam in a class that is critical to my major, I would:

	Always	Often	Usually	Sometimes	Never
Talk to a friend about it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talk to the professor about it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talk to my advisor.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drop the course.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do nothing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>





## 5. Research Training

	Strongly Agree	Moderately Agree	Slightly Agree	Slightly Disagree	Moderately Disagree	Strongly Disagree
1. The research during the REU program was intellectually challenging and stimulating.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
2. The REU program provided concrete support for students' research (e.g., access to computers, access to lab facilities, research supplies).	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
3. There was informal sharing of research ideas during the REU program.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
4. The REU faculty understood and accepted that any piece of research would have its methodological problems.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
5. I had the opportunity to learn about other computing research during the REU program.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
6. I was encouraged to get involved in some aspect of a research project from the very beginning of the REU program.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
7. I had the opportunity to learn about several major research approaches (e.g., experimental, survey, simulation).	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
8. There were opportunities to become part of a research team.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
9. I was encouraged during the REU program to find and follow research ideas of interest to me.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
10. The research was difficult to get started because it was organized in a way that was anxiety provoking.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
11. I received training in how to design and logically analyze research studies.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
12. The REU faculty is involved in the conduct and publication of quality research.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
	Strongly Agree	Moderately Agree	Slightly Agree	Slightly Disagree	Moderately Disagree	Strongly Disagree
13. The REU faculty did a good job of showing students how statistics are actually used in computing research.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
14. I felt encouraged in my research activities and accomplishments.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
15. During the REU program there was a focus on understanding the logic of research design.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
16. There seemed to be a general attitude that there was one best way to do research.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
17. During the REU program I felt as if I was a part of the research team.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
18. I had the feeling, during the REU program, that my research project needed to be completely original and revolutionary to be acceptable.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
19. The REU faculty was generally sensitive to students' anxieties and feelings about statistics.	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
20. During the REU program I was introduced to a wide range of research methodologies (e.g., experimental, survey, simulation).	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ
21. From the very beginning of the REU program, I felt mentored and supported by	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Ⓜ

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faculty.

22. I felt isolated during the summer REU program.

23. Student achievements were recognized by the REU faculty

## 6. REU Site Administration Questionnaire

Please provide feedback on your opinion about this year's REU program to help us improve for the future.

### 28. What area did you study in the REU (check all that apply):

- Digital Games
- Mobile Robotics and Networking
- Data Visualization
- Virtual Environments

### 29. Please indicate your level of agreement with the following statements:

	Strongly Agree	Moderately Agree	Slightly Agree	Slightly Disagree	Moderately Disagree	Strongly Disagree
3. Being part of a team was valuable to my project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. I would recommend this program to my peers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. The GRE preparation was beneficial.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. I found the project meetings helpful.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. The materials provided to me were timely and helpful.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1. The social activities contributed to the quality of the REU experience.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. I plan to continue my research during the next academic year.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 30. What was the most rewarding experience for you during the REU project?

### 31. What was the most frustrating experience for you during the REU project?

**32. What have you published, or planned to publish, based upon your REU project (please note journals and conferences)?**

**33. Please tell us about your interest in the STARS Alliance (a program that provides students with professional development, mentoring, and outreach and research opportunities). For more information about the STARS Alliance, please see the website: <http://www.starsalliance.org/> .**

**34. Any additional comments and suggestions are welcome below.**

**35. Gender**

- Female
- Male
- Prefer not to specify.

**36. Age**

**37. Ethnic identity: please check the one that best describes your ethnic identity.**

- Asian or Asian America, including Chinese, Japanese and others
- Black or African American
- Hispanic or Latino, including Mexican American, Central American, and others
- White, Caucasian, Anglo, European American; not Hispanic
- American Indian/Native American
- Alaska Native
- Native Hawaiian
- Pacific Islander
- Prefer not to specify
- Other (please specify)

**38. At the present time, how confident are you that you will graduate with your chosen computing/IT major?**

- Not at all confident: I am already planning to change my major.
- Not very confident: it is highly likely that I will change my major.
- There's about a 50% chance that I'll change my major.
- I'm fairly confident that I will keep my current choice as my major.
- I'm very confident that I will keep my current choice as my major.

**39. At the present time, how confident are you that you will complete any degree (any major) from your current institution?**

- Not at all confident: I am already planning to change my major.
- Not very confident: it is highly likely that I will change my major.
- There's about a 50% chance that I'll change my major.
- I'm fairly confident that I will keep my current choice as my major.
- I'm very confident that I will keep my current choice as my major.

**40. At the present, are you exploring other possible majors for your university degree?**

- No
- Yes (please specify):

## 7. Thank you.

Thank you for completing the REU Site survey. Your responses will help us improve the program for future years! Remember that if you have not completed the survey, you can come back and complete it again later, as long as you use the same computer.