



Aggregate Reporting

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All REU Site only Other

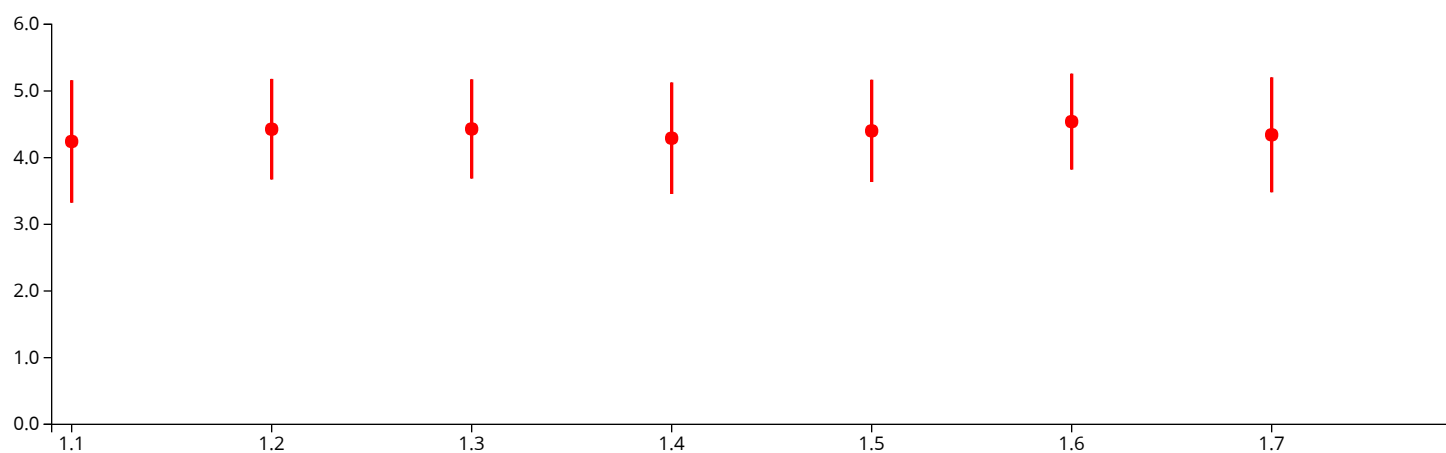
Thinking and Working Like a Scientist

1. How much did you GAIN in the following areas as a result of your most recent research experience?

	1: no gains	2: a little gain	3: moderate gain	4: good gain	5: great gain	6: not applicable	Mean	N
1.1. Analyzing data for patterns	1.0%	4.8%	12.2%	31.7%	48.6%	1.7%	4.2	817
1.2. Figuring out the next step in a research project	0.2%	2.2%	8.1%	33.4%	55.7%	0.4%	4.4	818
1.3. Problem solving in general	0.1%	2.0%	8.8%	32.9%	56.1%	0.1%	4.4	818
1.4. Formulating a research question that could be answered with data	0.5%	3.7%	10.3%	36.3%	47.9%	1.3%	4.3	816
1.5. Identifying limitations of research methods and designs	0.4%	1.7%	9.8%	32.8%	54.0%	1.2%	4.4	816
1.6. Understanding the theory and concepts guiding my research project	0.5%	1.5%	6.0%	27.2%	64.1%	0.7%	4.5	816
1.7. Understanding the connections among scientific disciplines	0.6%	3.1%	12.7%	27.9%	54.6%	1.1%	4.3	817
1.8. Understanding the relevance of research to my coursework	1.3%	4.0%	10.8%	26.1%	56.0%	1.7%	4.3	815

1. Summary of scale results

The graphic below lists the mean and confidence interval (+/- the standard deviation) for each item.



	1: no ability	2: a little ability	3: moderate ability	4: good ability	5: great ability	Mean	N
2. Please rate your overall ability to think and work like a scientist BEFORE your most recent research experience.	2.2%	21.1%	47.7%	25.7%	3.3%	3.1	816

	1: no ability	2: a little ability	3: moderate ability	4: good ability	5: great ability	Mean	N
3. Please rate your overall ability to think and work like a scientist AFTER your most recent research experience.	0.0%	0.0%	8.9%	55.2%	35.9%	4.3	819

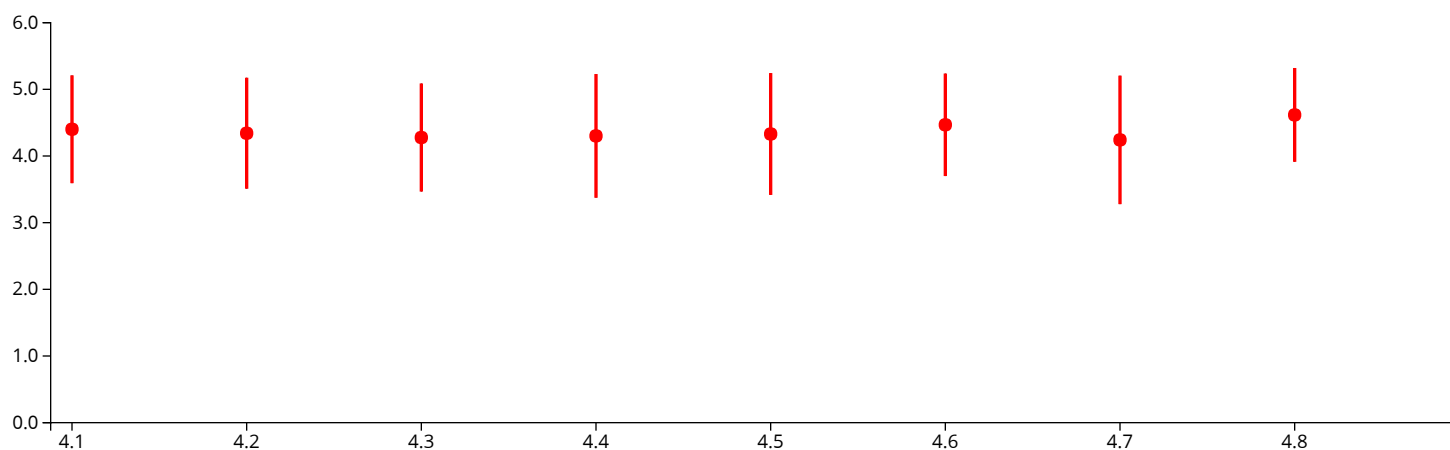
Personal Gains Related to Research Work

4. How much did you GAIN in the following areas as a result of your most recent research experience?

	1: no gains	2: a little gain	3: moderate gain	4: good gain	5: great gain	6: not applicable	Mean	N
4.1. Confidence in my ability to do research	1.0%	2.3%	7.8%	33.3%	55.4%	0.1%	4.4	819
4.2. Confidence in my ability to contribute to science	1.0%	2.9%	8.7%	35.7%	51.7%	0.0%	4.3	817
4.3. Comfort in discussing scientific concepts with others	0.7%	2.2%	11.8%	39.1%	46.1%	0.0%	4.3	815
4.4. Comfort in working collaboratively with others	1.5%	4.6%	9.7%	30.6%	53.4%	0.2%	4.3	818
4.5. Confidence in my ability to do well in future science courses	1.7%	3.7%	9.2%	30.4%	54.5%	0.6%	4.3	817
4.6. Ability to work independently	0.6%	1.8%	7.8%	29.4%	60.0%	0.2%	4.5	816
4.7. Developing patience with the slow pace of research	2.2%	3.8%	12.3%	30.3%	50.5%	0.9%	4.2	818
4.8. Understanding what everyday research work is like	0.6%	1.7%	4.0%	22.5%	70.6%	0.5%	4.6	817
4.9. Taking greater care in conducting procedures in the lab or field	0.7%	3.0%	7.6%	27.1%	59.5%	2.1%	4.4	813

4. Summary of scale results

The graphic below lists the mean and confidence interval (+/- the standard deviation) for each item.



	1: not favorable	2: a little favorable	3: moderately favorable	4: favorable	5: greatly favorable	Mean	N
5. Please rate your overall mindset toward research BEFORE your most recent research experience.	2.3%	9.8%	29.5%	38.6%	19.7%	3.6	816

	1: not favorable	2: a little favorable	3: moderately favorable	4: favorable	5: greatly favorable	Mean	N
6. Please rate your overall mindset toward research AFTER your most recent research experience.	1.0%	4.0%	8.1%	37.0%	49.9%	4.3	819

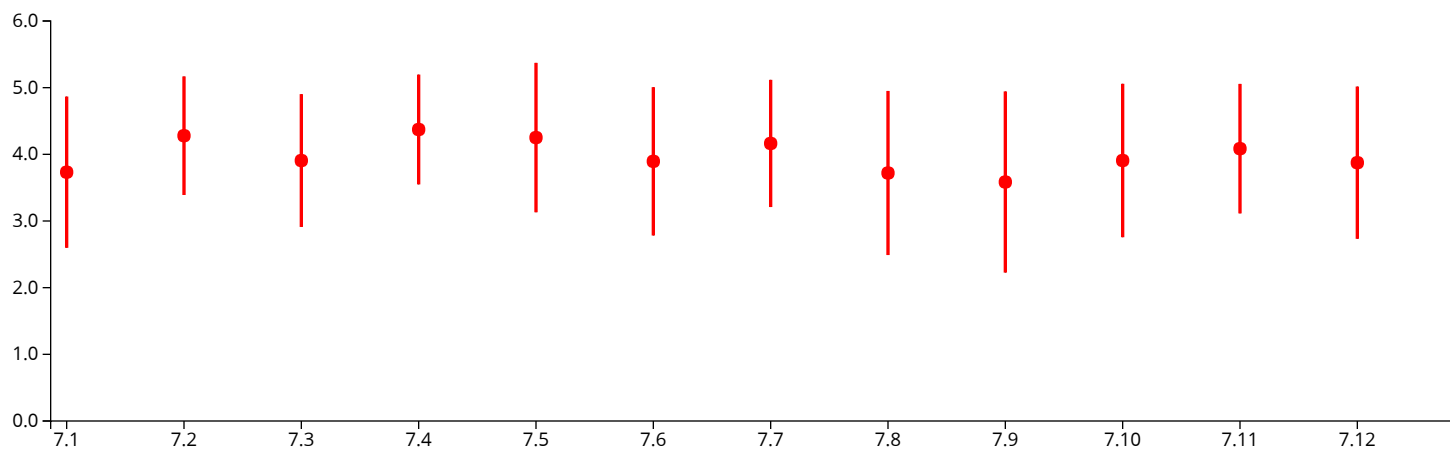
Gains in Skills

7. How much did you GAIN in the following areas as a result of your most recent research experience?

	1: no gains	2: a little gain	3: moderate gain	4: good gain	5: great gain	6: not applicable	Mean	N
7.1. Writing scientific reports or papers	4.3%	11.2%	17.4%	34.2%	27.4%	5.5%	3.7	818
7.2. Making oral presentations	0.9%	4.2%	11.5%	32.5%	50.2%	0.7%	4.3	815
7.3. Defending an argument when asked questions	1.8%	7.6%	20.1%	37.5%	31.6%	1.5%	3.9	817
7.4. Explaining my project to people outside my field	0.2%	3.7%	9.7%	31.3%	54.9%	0.2%	4.4	818
7.5. Preparing a scientific poster	4.9%	3.3%	6.4%	21.9%	49.3%	14.2%	4.3	816
7.6. Keeping a detailed lab notebook	4.3%	6.9%	16.8%	31.8%	33.5%	6.7%	3.9	817
7.7. Conducting observations in the lab or field	1.7%	4.5%	12.9%	33.5%	42.6%	4.8%	4.2	816
7.8. Using statistics to analyze data	5.8%	10.2%	20.1%	22.8%	32.2%	8.9%	3.7	816
7.9. Calibrating instruments needed for measurement	10.0%	8.2%	13.4%	22.9%	26.3%	19.1%	3.6	816
7.10. Working with Computers	4.4%	8.4%	16.8%	28.6%	38.0%	3.8%	3.9	819
7.11. Understanding journal articles	1.7%	5.4%	16.4%	34.9%	40.8%	0.7%	4.1	816
7.12. Conducting database or internet searches	4.6%	8.6%	16.9%	31.8%	35.7%	2.4%	3.9	818
7.13. Managing my time	2.0%	5.4%	16.1%	36.6%	39.8%	0.1%	4.1	816

7. Summary of scale results

The graphic below lists the mean and confidence interval (+/- the standard deviation) for each item.



	1: no skill	2: a little skill	3: moderate skill	4: good skill	5: great skill	Mean	N
8. Please rate your overall research skill BEFORE your most recent research experience.	7.8%	27.9%	41.2%	20.4%	2.7%	2.8	818

	1: no skill	2: a little skill	3: moderate skill	4: good skill	5: great skill	Mean	N
9. Please rate your overall research skill AFTER your most recent research experience.	0.0%	0.5%	12.6%	61.1%	25.9%	4.1	819

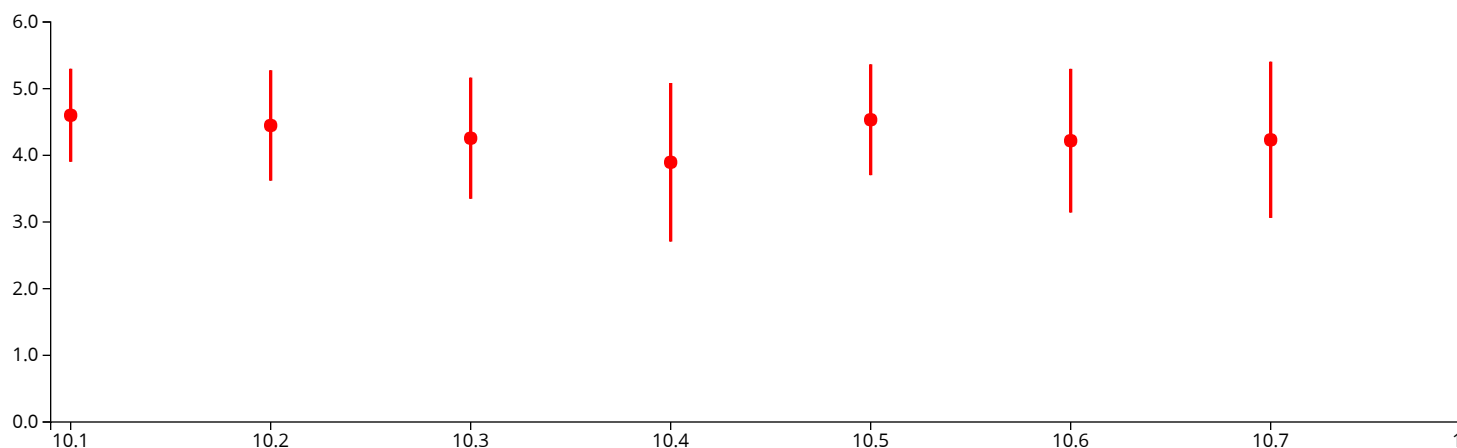
Attitudes and Behaviors as a Researcher

10. During your research experiences HOW MUCH did you:

	1: none	2: a little	3: some	4: a fair amount	5: a great deal	6: not applicable	Mean	N
10.1. Engage in real-world science research	0.4%	1.7%	5.0%	23.3%	69.5%	0.1%	4.6	820
10.2. Feel like a scientist	0.6%	3.7%	7.2%	27.2%	61.0%	0.4%	4.4	820
10.3. Think creatively about the project	1.0%	5.2%	10.3%	34.2%	49.2%	0.1%	4.3	815
10.4. Try out new ideas or procedures on your own	5.4%	8.7%	16.9%	27.4%	40.1%	1.6%	3.9	818
10.5. Feel responsible for the project	1.0%	3.3%	6.1%	20.3%	68.9%	0.4%	4.5	814
10.6. Work extra hours because you were excited about the research	3.7%	4.8%	12.7%	23.0%	54.9%	1.0%	4.2	819
10.7. Interact with scientists from outside your school	5.4%	5.5%	9.8%	17.7%	59.7%	2.0%	4.2	819
10.8. Feel a part of a scientific community	0.5%	4.3%	7.8%	24.6%	62.7%	0.1%	4.4	818

10. Summary of scale results

The graphic below lists the mean and confidence interval (+/- the standard deviation) for each item.



	1: very negative	2: negative	3: neutral	4: positive	5: very positive	Mean	N
11. Please rate your attitudes and behaviors toward research BEFORE your most recent research experience.	0.1%	1.2%	25.9%	51.8%	21.0%	3.9	819

	1: very negative	2: negative	3: neutral	4: positive	5: very positive	Mean	N
12. Please rate your attitudes and behaviors toward research AFTER your most recent research experience.	0.2%	1.2%	5.7%	37.6%	55.2%	4.5	819

Research Experience

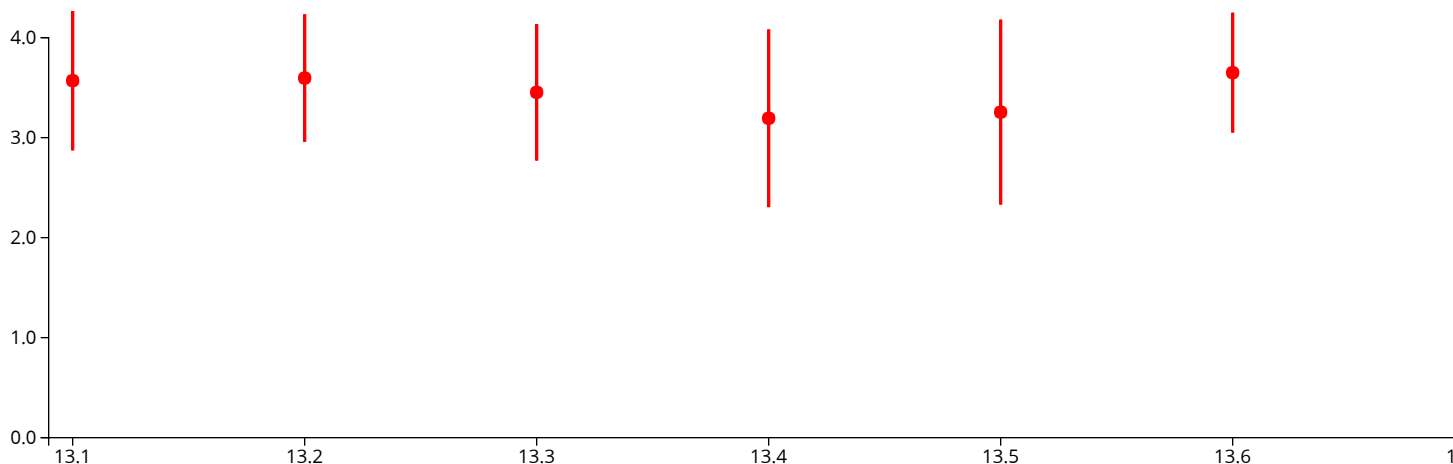
13. Please rate the following:

	1: poor	2: fair	3: good	4: excellent	Mean	N
13.1. My working relationship with my research mentor	2.0%	6.2%	24.7%	67.2%	3.6	819
13.2. My working relationship with research group members	1.1%	5.0%	27.1%	66.8%	3.6	817
13.3. The amount of time I spent doing meaningful research	1.5%	6.5%	37.3%	54.8%	3.5	816
13.4. The amount of time I spent with my research mentor	4.9%	16.9%	32.0%	46.1%	3.2	815

	1: poor	2: fair	3: good	4: excellent	Mean	N
13.5. The advice my research mentor provided about careers or graduate school	5.8%	15.9%	25.3%	53.0%	3.3	811
13.6. The research experience overall	0.6%	4.8%	23.6%	71.0%	3.6	814
13.7. The overall quality of the mentoring from my primary research mentor	2.8%	7.7%	23.0%	66.4%	3.5	813

13. Summary of scale results

The graphic below lists the mean and confidence interval (+/- the standard deviation) for each item.

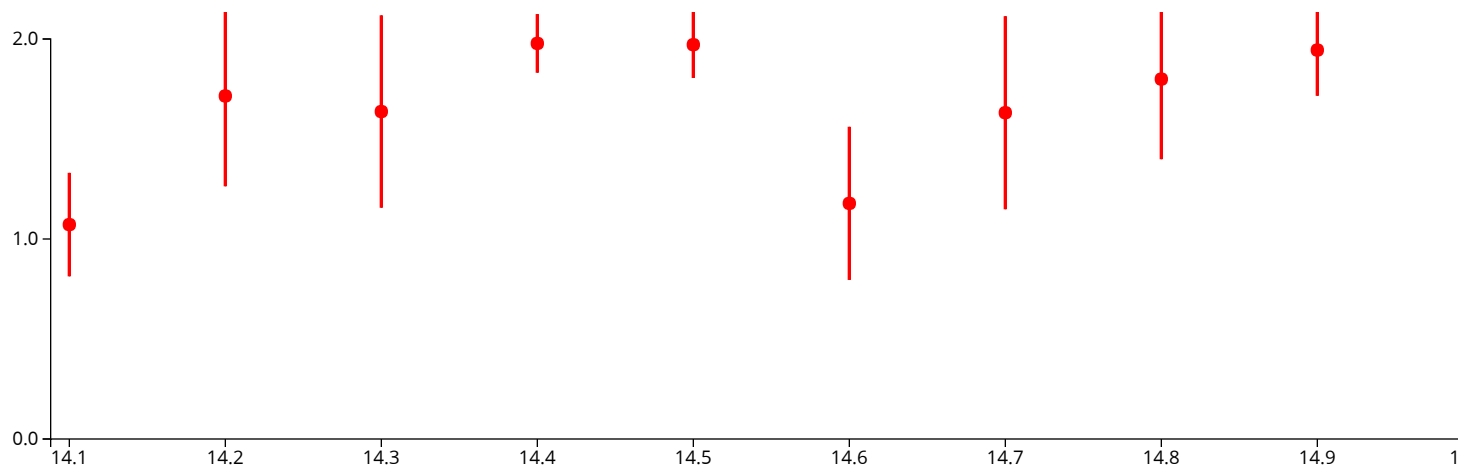


14. As part of my most recent research experience:

	1: Yes	2: No	Mean	N
14.1. I presented a talk or poster to other students or faculty	92.8%	7.2%	1.1	819
14.2. I presented a talk or poster at a professional conference	28.5%	71.5%	1.7	818
14.3. I attended a conference	36.3%	63.7%	1.6	816
14.4. I wrote or co-wrote a paper that was published in an academic journal	2.2%	97.8%	2.0	819
14.5. I wrote or co-wrote a paper that was published in an undergraduate research journal	2.8%	97.2%	2.0	808
14.6. I will present a talk or poster to other students and faculty	82.2%	17.8%	1.2	814
14.7. I will write or co-write a paper to be published in an academic journal	36.9%	63.1%	1.6	814
14.8. I will write or co-write a paper to be published in an undergraduate research journal	20.0%	80.0%	1.8	808
14.9. I won an award or scholarship based on my research	5.5%	94.5%	1.9	813
14.10. I will present a talk or poster at a professional conference	45.5%	54.5%	1.5	815

14. Summary of scale results

The graphic below lists the mean and confidence interval (+/- the standard deviation) for each item.

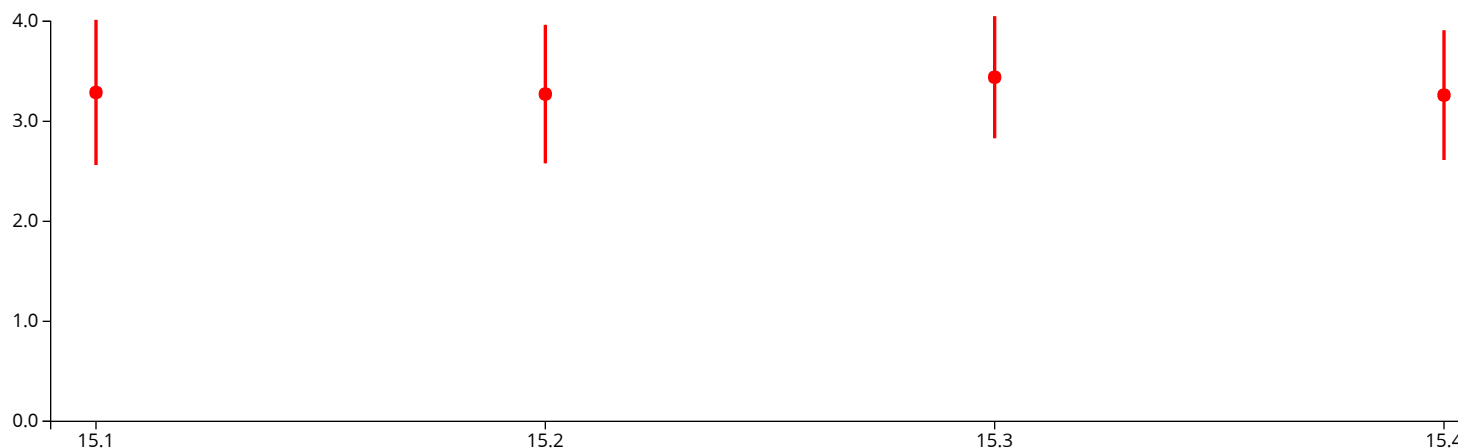


15. Rate how much you agree with the following statements.

	1: strongly disagree	2: disagree	3: agree	4: strongly agree	Mean	N
15.1. Doing my research confirmed my interest in my field of study.	1.8%	10.5%	44.6%	43.1%	3.3	817
15.2. Doing research clarified for me which field of study I want to pursue.	1.0%	11.1%	47.7%	40.3%	3.3	814
15.3. My research experience has prepared me for graduate school	0.6%	4.4%	45.2%	49.8%	3.4	816
15.4. My research experience has prepared me for a job.	0.7%	9.1%	53.4%	36.8%	3.3	813

15. Summary of scale results

The graphic below lists the mean and confidence interval (+/- the standard deviation) for each item.



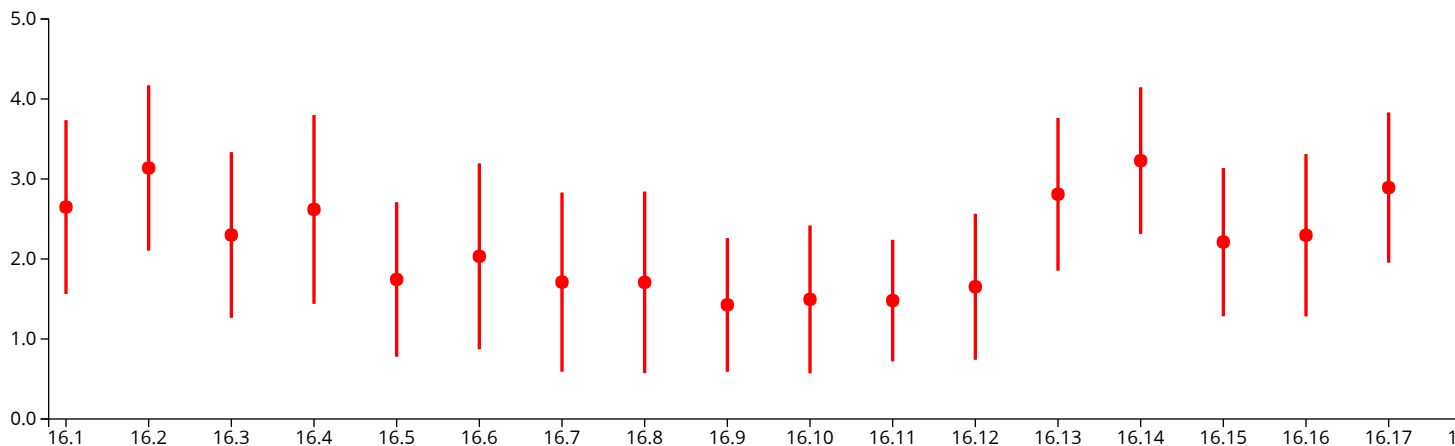
16. Comparing your intentions BEFORE and AFTER doing research, how likely were you to:

	1: very unlikely	2: somewhat likely	3: likely	4: very likely	5: not applicable	Mean	N
16.1. enroll in a Ph.D. program in science, mathematics or engineering? BEFORE	17.7%	28.4%	23.5%	29.1%	1.2%	2.6	820
16.2. enroll in a Ph.D. program in science, mathematics or engineering? AFTER	9.6%	18.0%	20.5%	50.8%	1.1%	3.1	815
16.3. enroll in a masters program in science, mathematics or engineering? BEFORE	25.3%	31.2%	23.0%	15.4%	5.1%	2.3	818
16.4. enroll in a masters program in science, mathematics or engineering? AFTER	22.9%	22.0%	18.1%	31.8%	5.2%	2.6	812

	1: very unlikely	2: somewhat likely	3: likely	4: very likely	5: not applicable	Mean	N
16.5. Enroll in a combined M.D./Ph.D. program? BEFORE	50.7%	22.1%	12.6%	7.2%	7.4%	1.7	819
16.6. Enroll in a combined M.D./Ph.D. program? AFTER	43.8%	19.0%	12.9%	17.0%	7.3%	2.0	817
16.7. enroll in medical or dental school? BEFORE	60.6%	8.7%	8.4%	13.0%	9.3%	1.7	817
16.8. enroll in medical or dental school? AFTER	61.6%	7.7%	7.6%	13.7%	9.3%	1.7	815
16.9. enroll in a program to earn a different professional degree (i.e. law, veterinary medicine, etc.) BEFORE	67.3%	11.8%	6.4%	4.7%	9.9%	1.4	816
16.10. enroll in a program to earn a different professional degree (i.e. law, veterinary medicine, etc.) AFTER	66.1%	10.3%	7.2%	6.6%	9.7%	1.5	814
16.11. Pursue certification as a teacher? BEFORE	61.6%	22.3%	7.6%	2.6%	5.9%	1.5	816
16.12. Pursue certification as a teacher? AFTER	55.0%	22.9%	10.3%	6.0%	5.8%	1.7	814
16.13. work in a science lab? BEFORE	9.1%	28.5%	32.8%	28.0%	1.5%	2.8	820
16.14. work in a science lab? AFTER	5.8%	15.0%	28.2%	49.1%	1.8%	3.2	812
16.15. pursue a career in science that does NOT necessarily include research? BEFORE	23.7%	39.6%	24.3%	10.0%	2.4%	2.2	819
16.16. pursue a career in science that does NOT necessarily include research? AFTER	26.0%	30.4%	27.2%	13.8%	2.6%	2.3	816
16.17. pursue a career in science that INCLUDES research? BEFORE	7.6%	26.6%	33.5%	31.1%	1.2%	2.9	820
16.18. pursue a career in science that INCLUDES research? AFTER	5.0%	11.7%	26.5%	55.4%	1.3%	3.3	818

16. Summary of scale results

The graphic below lists the mean and confidence interval (+/- the standard deviation) for each item.



	1: Bachelors (BS, BA, BAS)	2: Masters	3: PhD	4: MD	5: MD/PhD	6: DDS	7: DVM	8: PharmD	9: other	Mean	N
17. Please state your intended degree BEFORE doing research.	17.2%	16.7%	43.2%	11.6%	8.1%	0.5%	1.5%	0.4%	0.9%	2.9	819

	1: Bachelors (BS, BA, BAS)	2: Masters	3: PhD	4: MD	5: MD/PhD	6: DDS	7: DVM	8: PharmD	9: other	Mean	N

	1: Bachelors (BS, BA, BAS)	2: Masters	3: PhD	4: MD	5: MD/PhD	6: DDS	7: DVM	8: PharmD	9: other	Mean	N
18. Please state your intended degree AFTER doing research.	4.6%	17.0%	54.9%	7.8%	13.2%	0.2%	1.0%	0.2%	1.1%	3.2	820

Prior Research Experiences

	1: Never	2: 1	3: 2	4: 3	5: 4 or more	Mean	N
19. How many semesters/quarters have you participated in ACADEMIC YEAR research?	34.9%	16.6%	20.8%	10.7%	17.0%	2.6	819

	1: none	2: 1	3: 2	4: 3 or more	Mean	N
20. How many times have you participated in SUMMER research?	41.6%	32.0%	18.8%	7.7%	1.9	820

	1: part of an academic year	2: all of an academic year	3: 5 weeks or less in summer	4: 6-8 weeks in summer	5: 9 weeks or more in summer	Mean	N
21. For your most recent research experience, how long did you do research?	11.0%	13.5%	2.1%	9.6%	63.8%	4.0	816

Credit For Doing Research

	1: academic credit	2: stipend (money)	3: both academic credit and stipend	4: no credit	Mean	N
22. For your most recent research experience how did you receive credit?	8.3%	71.3%	14.1%	6.2%	2.2	820

	1: not at all important	2: slightly important	3: important	4: very important	Mean	N
23. If you received a stipend, how important was it in allowing you to do research?	7.5%	19.2%	26.6%	46.6%	3.1	796