

## LUROP Student Survey, Summer 2013

Dear LUROP Fellow,

You are being asked to respond to a survey about your experience as an undergraduate research fellow through one of the LUROP fellowships. The purpose of the survey is to gather information about and for the program, not to evaluate you or your mentor as individuals. The survey is anonymous.

1. In which specific Loyola Undergraduate Research Opportunities Program (LUROP) did you participate during the summer of 2013?

Biology Summer Research Fellowship

Center for Urban Environmental Research and Policy (CUERP) Undergraduate Research Fellowship

Molecular & Computational Biology Summer Research Fellowship

Provost Fellowship

Research Mentoring Program

Women in Science Enabling Research (WISER)

2. On average, how many hours a week did you spend on your project?

0

1-3

4-6

7-10

11+

Not applicable

3. In what department or program is your mentor based (Biology, Psychology, etc)?

### Skills Learned

4. Please answer the two parts of this question. A) Did you have experience with this skill prior to your recent research experience? B) How much did you gain in the following areas as a result of your recent research experience?

*(Answers to B) are ranked: great gain, moderate gain, a little gain, no gain, N/A)*

Ability to articulate a research question or problem and a hypothesis

Learning appropriate research methodologies and when to use them

Ability to deal constructively with research setbacks through problem solving

Learning key terminology, concepts, and theory, and knowing how to use them

Ability to find existing body of research relevant to your topic

Actual knowledge of relevant research, and ability to compare your project to it

Ability to work collaboratively with other researchers

Confidence and ability to communicate with graduate students and faculty

Ability to work autonomously

Understanding the relevance of your research to my coursework, professional future

Ability to explain your research to others in the field

Ability to explain your research to a general audience

Knowledge of research ethics/responsible conduct of research

Knowledge about what you could expect as a graduate student  
Experience that will help you in deciding whether to go to grad school or the work force

5. To what extent did your research fellowship help you learn or develop in the areas of:

*(Answers are ranked: very much, somewhat, not very much, not at all)*

Personal growth  
Ability to work with others  
Leadership skills  
Communication skills  
Understanding cultural and racial differences  
Social responsibility and citizenship  
Community involvement  
Applying knowledge to the “real world”  
Problem analysis and critical thinking  
Social self-confidence  
Conflict resolution  
Ability to assume personal responsibility  
Development of caring relationships  
Gaining the trust of others  
Empathy and sensitivity to the plight of others  
Workplace skills  
Ability to make a difference in the world  
Skills in learning from experience  
Organization skills  
Connecting theory with practice

6. How well do you feel this research experience equipped you with the skills needed to be successful in your graduate school and/or a professional career?

*(Answers are ranked: very well, well, not well, not at all)*

7. Overall, would you say you benefitted from participating in this research experience?

*(Yes, No, Please Explain)*

### **Mentor, Fellow, Program, and LUROP**

8. To what extent did your primary mentor do the following?:

*(Answers are ranked: very much, somewhat, not very much, not at all)*

Taught you the skills needed to succeed on the project  
Set clear expectations for your role and goals as a research fellow  
Expected the appropriate number of hours for the research project  
Provided regular, constructive feedback  
Made themselves available and spent adequate time with you  
Spoke with you about opportunities to present research at conferences  
Spoke with you about graduate school  
Gave useful advice about your academic or professional career generally  
Provided adequate opportunities to meet colleagues in my field

9. Overall, how would you rank your mentor? Explain.  
(*excellent, good, fair, poor*)
10. To what extent did you do the following during your research experience?  
(*Answers are ranked: very much, somewhat, not very much, not at all, NA*)  
Asked your mentor to teach you new skills necessary for the research  
Set clear expectations for what you wanted from your mentor  
Put in the appropriate amount of work for the project  
Provided regular, constructive information/reports about your research to your mentor  
Made yourself available to your mentor to discuss the research  
Asked about and looked into opportunities to present at conferences  
Asked about graduate school  
Inquired about meeting colleagues in the field
11. Overall, how would you rank your own performance as a LUROP fellow? Explain.  
(*excellent, good, fair, poor*)
12. To what extent did your specific LUROP program (Provost Fellowship, RMP, WISER, etc.) do the following?  
(*Answers are ranked: very much, somewhat, not very much, not at all, NA*)  
Set clear expectations for your role as a research fellow  
Set clear expectations for your mentor's role  
Set clear expectations financially regarding stipend payments and use of research budget  
Addressed financial requests or concerns in a timely manner  
Provided or promoted opportunities to meet other research fellows, grad students, or faculty  
Provided or promoted professional development opportunities for researchers  
Provided or promoted opportunities to present or publish your research
13. Overall, how would you rank your specific LUROP program? Explain.  
(*excellent, good, fair, poor*)
14. To what extent did LUROP *as a whole* (website, e-mails, workshops, etc.) do the following?  
(*Answers are ranked: very much, somewhat, not very much, not at all, NA*)  
Offered the information you needed to apply for your LUROP fellowship  
Communicated with you to let you know about the LUROP website as a resource  
Communicated with you to let you know about the LUROP Travel Grants  
Provided or promoted opportunities to meet other research fellows, grad students, or faculty  
Provided or promoted professional development opportunities for researchers  
Provided or promoted opportunities to present or publish your research  
Promoted opportunities to do research outside Loyola
15. Overall, how would you rank LUROP as a whole? Explain.  
(*excellent, good, fair, poor*)

16. What do you think your mentor, your program, or LUROP as a whole could do differently to ensure students get the most out of their research experience?

(Additional Questions for Research Mentoring Program only)

17. If you've worked with a faculty mentor in the past, how would you compare your mentoring experience with your graduate student mentor through this program to that experience?

18. In what way, if any, did the three meetings during the summer influence your future plans?

# Summary report

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## Table of contents

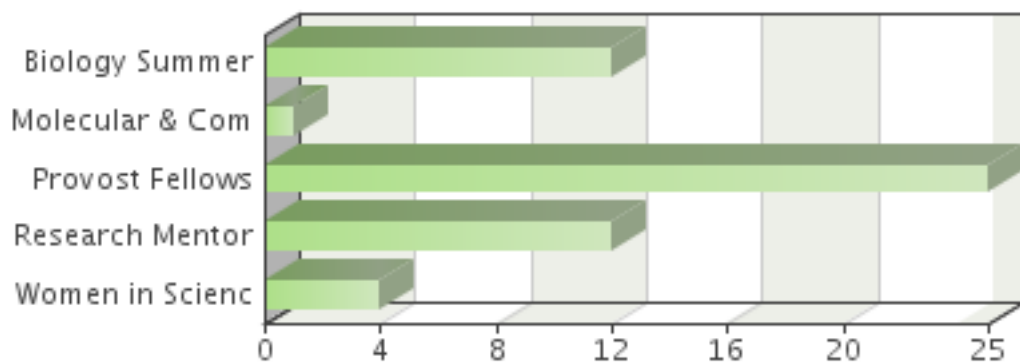
Report info .....	1
Question 1 .....	2
Question 2 .....	3
Question 4 .....	4
Did you have experience with this skill prior to your recent research	4
How much did you gain in the following areas as a result of your recent	4
Question 5 .....	9
Main cell group .....	9
Question 6 .....	13
Question 7 .....	13
Question 8 .....	17
Main cell group .....	17
Question 9 .....	19
Question 10 .....	22
Main cell group .....	22
Question 11 .....	25
Question 12 .....	28
Main cell group .....	28
Question 14 .....	31
Main cell group .....	31
Question 15 .....	33
Question 17 .....	35
Question 18 .....	36

## Report info

<b>Report date:</b>	Tuesday, October 22, 2013 10:01:37 AM CDT
<b>Stored responses:</b>	54
<b>Number of completed responses:</b>	36
<b>Number of invitees:</b>	69
<b>Invitees that responded:</b>	54
<b>Invitee response rate:</b>	78%

### Question 1

In which specific Loyola Undergraduate Research Opportunities Program (LUROP) did you participate during the summer of 2013?

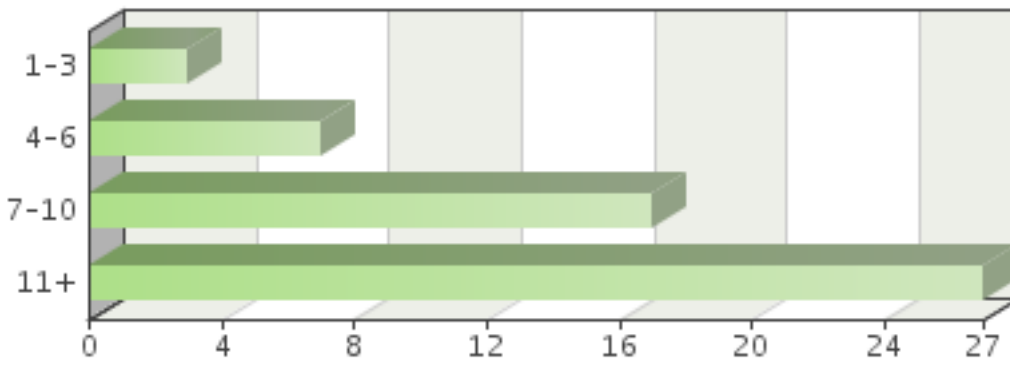


**Frequency table**

Choices	Absolute Frequency	Relative frequency	Adjusted relative frequency
Biology Summer Research Fellowship	12	22.22%	22.22%
Molecular & Computational Biology Summer Research	1	1.85%	1.85%
Provost Fellowship	25	46.30%	46.30%
Research Mentoring Program	12	22.22%	22.22%
Women in Science Enabling Research (WISER)	4	7.41%	7.41%
Not answered:	0	0.00%	-
<b>Sum:</b>	<b>54</b>	<b>100.00%</b>	<b>100.00%</b>

## Question 2

On average, how many hours a week did you spend on your project?



Frequency table

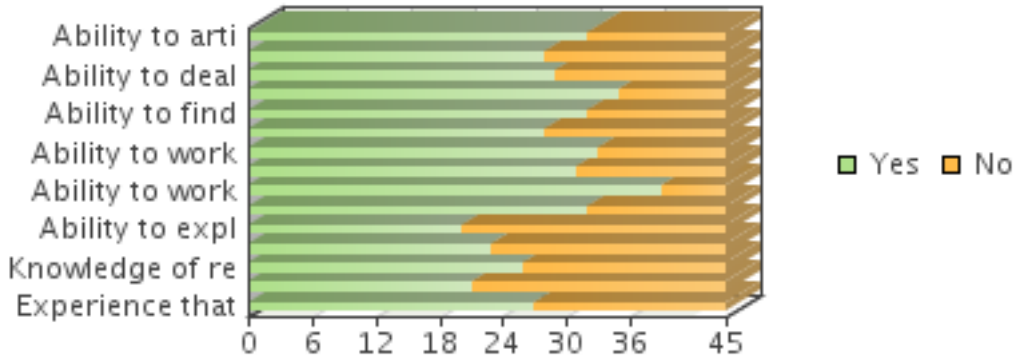
Choices	Absolute Frequency	Relative frequency	Adjusted relative frequency
1-3	3	5.56%	5.56%
4-6	7	12.96%	12.96%
7-10	17	31.48%	31.48%
11+	27	50.00%	50.00%
Not answered:	0	0.00%	-
<b>Sum:</b>	<b>54</b>	<b>100.00%</b>	<b>100.00%</b>



## Question 4

Please answer the following TWO questions. For the first question, answer "yes" or "no" based on whether you had previous experience with a particular skill. For the second question, please rank how much you gained for each particular skill in the blue-shaded area.

## Did you have experience with this skill prior to your recent research experience?



	Yes	No	Sum
<b>Ability to articulate a research question or problem and</b>	32 7.34% 71.11% 4.74%	13 5.44% 28.89% 1.93%	45 - 100.00% 6.67%
<b>Learning appropriate research methodologies and when</b>	28 6.42% 62.22% 4.15%	17 7.11% 37.78% 2.52%	45 - 100.00% 6.67%
<b>Ability to deal constructively with research</b>	29 6.65% 64.44% 4.30%	16 6.69% 35.56% 2.37%	45 - 100.00% 6.67%
<b>Learning key terminology, concepts, and theory, and knowing</b>	35 8.03% 77.78% 5.19%	10 4.18% 22.22% 1.48%	45 - 100.00% 6.67%
<b>Ability to find existing body of research relevant to</b>	32 7.34% 71.11% 4.74%	13 5.44% 28.89% 1.93%	45 - 100.00% 6.67%
<b>Actual knowledge of relevant research, and ability</b>	28 6.42% 62.22% 4.15%	17 7.11% 37.78% 2.52%	45 - 100.00% 6.67%
<b>Ability to work collaboratively with other</b>	33 7.57% 73.33% 4.89%	12 5.02% 26.67% 1.78%	45 - 100.00% 6.67%
<b>Confidence and ability to communicate with</b>	31 7.11% 68.89% 4.59%	14 5.86% 31.11% 2.07%	45 - 100.00% 6.67%

	Yes	No	Sum
<b>Ability to work autonomously</b>	39 8.94% 86.67% 5.78%	6 2.51% 13.33% 0.89%	45 - 100.00% 6.67%
<b>Understanding the relevance of your research to</b>	32 7.34% 71.11% 4.74%	13 5.44% 28.89% 1.93%	45 - 100.00% 6.67%
<b>Ability to explain your research to others in the field</b>	20 4.59% 44.44% 2.96%	25 10.46% 55.56% 3.70%	45 - 100.00% 6.67%
<b>Ability to explain your research to a general audience</b>	23 5.28% 51.11% 3.41%	22 9.21% 48.89% 3.26%	45 - 100.00% 6.67%
<b>Knowledge of research ethics/responsible conduct of</b>	26 5.96% 57.78% 3.85%	19 7.95% 42.22% 2.81%	45 - 100.00% 6.67%
<b>Knowledge about what you could expect as a graduate</b>	21 4.82% 46.67% 3.11%	24 10.04% 53.33% 3.56%	45 - 100.00% 6.67%
<b>Experience that will help you in deciding whether to</b>	27 6.19% 60.00% 4.00%	18 7.53% 40.00% 2.67%	45 - 100.00% 6.67%
<b>Sum</b>	436 100.00% - 64.59%	239 100.00% - 35.41%	675 - - 100.00%

**\*Sequence of numbers in a cell:**

Absolute Frequency

Relative frequency column

Relative frequency row

Relative frequency

# How much did you gain in the following areas as a result of your recent research



	No Gain	A Little Gain	Moderate Gain	Great Gain	Not Applicable	Sum
<b>Ability to articulate a research question or problem and</b>	0 0.00% 0.00% 0.00%	5 7.81% 11.11% 0.74%	19 9.18% 42.22% 2.83%	21 5.69% 46.67% 3.12%	0 0.00% 0.00% 0.00%	45 - 100.00% 6.70%
<b>Learning appropriate research methodologies and when</b>	0 0.00% 0.00% 0.00%	0 0.00% 0.00% 0.00%	15 7.25% 33.33% 2.23%	30 8.13% 66.67% 4.46%	0 0.00% 0.00% 0.00%	45 - 100.00% 6.70%
<b>Ability to deal constructively with research</b>	1 7.14% 2.22% 0.15%	3 4.69% 6.67% 0.45%	8 3.86% 17.78% 1.19%	33 8.94% 73.33% 4.91%	0 0.00% 0.00% 0.00%	45 - 100.00% 6.70%
<b>Learning key terminology, concepts, and theory, and knowing</b>	0 0.00% 0.00% 0.00%	4 6.25% 8.89% 0.60%	11 5.31% 24.44% 1.64%	29 7.86% 64.44% 4.32%	1 5.56% 2.22% 0.15%	45 - 100.00% 6.70%
<b>Ability to find existing body of research relevant to</b>	1 7.14% 2.22% 0.15%	7 10.94% 15.56% 1.04%	14 6.76% 31.11% 2.08%	20 5.42% 44.44% 2.98%	3 16.67% 6.67% 0.45%	45 - 100.00% 6.70%
<b>Actual knowledge of relevant research, and ability</b>	0 0.00% 0.00% 0.00%	6 9.38% 13.33% 0.89%	18 8.70% 40.00% 2.68%	19 5.15% 42.22% 2.83%	2 11.11% 4.44% 0.30%	45 - 100.00% 6.70%
<b>Ability to work collaboratively with other</b>	2 14.29% 4.44% 0.30%	3 4.69% 6.67% 0.45%	16 7.73% 35.56% 2.38%	22 5.96% 48.89% 3.27%	2 11.11% 4.44% 0.30%	45 - 100.00% 6.70%
<b>Confidence and ability to communicate with</b>	1 7.14% 2.27% 0.15%	0 0.00% 0.00% 0.00%	20 9.66% 45.45% 2.98%	22 5.96% 50.00% 3.27%	1 5.56% 2.27% 0.15%	44 - 100.00% 6.55%

	No Gain	A Little Gain	Moderate Gain	Great Gain	Not Applicable	Sum
<b>Ability to work autonomously</b>	1	2	12	30	0	45
	7.14%	3.12%	5.80%	8.13%	0.00%	-
	2.22%	4.44%	26.67%	66.67%	0.00%	100.00%
<b>Understanding the relevance of your research to</b>	0	2	14	29	0	45
	0.00%	3.12%	6.76%	7.86%	0.00%	-
	0.00%	4.44%	31.11%	64.44%	0.00%	100.00%
<b>Ability to explain your research to others in the field</b>	1	6	11	26	1	45
	7.14%	9.38%	5.31%	7.05%	5.56%	-
	2.22%	13.33%	24.44%	57.78%	2.22%	100.00%
<b>Ability to explain your research to a general audience</b>	0	5	17	22	1	45
	0.00%	7.81%	8.21%	5.96%	5.56%	-
	0.00%	11.11%	37.78%	48.89%	2.22%	100.00%
<b>Knowledge of research ethics/responsible conduct of</b>	2	7	12	19	3	43
	14.29%	10.94%	5.80%	5.15%	16.67%	-
	4.65%	16.28%	27.91%	44.19%	6.98%	100.00%
<b>Knowledge about what you could expect as a graduate</b>	2	8	11	22	2	45
	14.29%	12.50%	5.31%	5.96%	11.11%	-
	4.44%	17.78%	24.44%	48.89%	4.44%	100.00%
<b>Experience that will help you in deciding whether to</b>	3	6	9	25	2	45
	21.43%	9.38%	4.35%	6.78%	11.11%	-
	6.67%	13.33%	20.00%	55.56%	4.44%	100.00%
<b>Sum</b>	14	64	207	369	18	672
	100.00%	100.00%	100.00%	100.00%	100.00%	-
	-	-	-	-	-	-
	2.08%	9.52%	30.80%	54.91%	2.68%	100.00%

**\*Sequence of numbers in a cell:**

Absolute Frequency

Relative frequency column

Relative frequency row

Relative frequency

## Question 5

To what extent did your research fellowship help you learn or develop in the areas of:

## Main cell group



	Not at All	Not Very Much	Somewhat	Very Much	Sum
<b>Personal Growth</b>	1 1.06% 2.13% 0.11%	2 1.44% 4.26% 0.21%	20 6.58% 42.55% 2.13%	24 5.97% 51.06% 2.56%	47 - 100.00% 5.01%
<b>Ability to Work With Others</b>	0 0.00% 0.00% 0.00%	4 2.88% 8.51% 0.43%	23 7.57% 48.94% 2.45%	20 4.98% 42.55% 2.13%	47 - 100.00% 5.01%
<b>Leadership Skills</b>	3 3.19% 6.38% 0.32%	9 6.47% 19.15% 0.96%	17 5.59% 36.17% 1.81%	18 4.48% 38.30% 1.92%	47 - 100.00% 5.01%
<b>Communication Skills</b>	0 0.00% 0.00% 0.00%	2 1.44% 4.26% 0.21%	20 6.58% 42.55% 2.13%	25 6.22% 53.19% 2.66%	47 - 100.00% 5.01%
<b>Understanding Cultural and Racial Differences</b>	16 17.02% 34.04% 1.70%	14 10.07% 29.79% 1.49%	7 2.30% 14.89% 0.75%	10 2.49% 21.28% 1.06%	47 - 100.00% 5.01%
<b>Social Responsibility and Citizenship</b>	14 14.89% 29.79% 1.49%	12 8.63% 25.53% 1.28%	14 4.61% 29.79% 1.49%	7 1.74% 14.89% 0.75%	47 - 100.00% 5.01%
<b>Community Involvement</b>	12 12.77% 25.53% 1.28%	17 12.23% 36.17% 1.81%	9 2.96% 19.15% 0.96%	9 2.24% 19.15% 0.96%	47 - 100.00% 5.01%
<b>Applying Knowledge to the Real World</b>	2 2.13% 4.26% 0.21%	5 3.60% 10.64% 0.53%	14 4.61% 29.79% 1.49%	26 6.47% 55.32% 2.77%	47 - 100.00% 5.01%

	Not at All	Not Very Much	Somewhat	Very Much	Sum
<b>Problem Analysis and Critical Thinking</b>	1	1	7	38	47
	1.06%	0.72%	2.30%	9.45%	-
	2.13%	2.13%	14.89%	80.85%	100.00%
	0.11%	0.11%	0.75%	4.05%	5.01%
<b>Social Self-Confidence</b>	4	8	21	14	47
	4.26%	5.76%	6.91%	3.48%	-
	8.51%	17.02%	44.68%	29.79%	100.00%
	0.43%	0.85%	2.24%	1.49%	5.01%
<b>Conflict Resolution</b>	7	14	12	14	47
	7.45%	10.07%	3.95%	3.48%	-
	14.89%	29.79%	25.53%	29.79%	100.00%
	0.75%	1.49%	1.28%	1.49%	5.01%
<b>Ability to Assume Personal Responsibility</b>	2	1	14	30	47
	2.13%	0.72%	4.61%	7.46%	-
	4.26%	2.13%	29.79%	63.83%	100.00%
	0.21%	0.11%	1.49%	3.19%	5.01%
<b>Development of Caring Relationships</b>	6	11	14	15	46
	6.38%	7.91%	4.61%	3.73%	-
	13.04%	23.91%	30.43%	32.61%	100.00%
	0.64%	1.17%	1.49%	1.60%	4.90%
<b>Gaining the Trust of Others</b>	5	8	18	16	47
	5.32%	5.76%	5.92%	3.98%	-
	10.64%	17.02%	38.30%	34.04%	100.00%
	0.53%	0.85%	1.92%	1.70%	5.01%
<b>Empathy and Sensitivity to the Plight of Others</b>	11	13	13	10	47
	11.70%	9.35%	4.28%	2.49%	-
	23.40%	27.66%	27.66%	21.28%	100.00%
	1.17%	1.38%	1.38%	1.06%	5.01%
<b>Workplace Skills</b>	2	2	17	26	47
	2.13%	1.44%	5.59%	6.47%	-
	4.26%	4.26%	36.17%	55.32%	100.00%
	0.21%	0.21%	1.81%	2.77%	5.01%
<b>Ability to Make a Difference in the World</b>	4	12	17	14	47
	4.26%	8.63%	5.59%	3.48%	-
	8.51%	25.53%	36.17%	29.79%	100.00%
	0.43%	1.28%	1.81%	1.49%	5.01%
<b>Skills in Learning From Experience</b>	1	0	14	32	47
	1.06%	0.00%	4.61%	7.96%	-
	2.13%	0.00%	29.79%	68.09%	100.00%
	0.11%	0.00%	1.49%	3.41%	5.01%
<b>Organization Skills</b>	2	3	20	22	47
	2.13%	2.16%	6.58%	5.47%	-
	4.26%	6.38%	42.55%	46.81%	100.00%
	0.21%	0.32%	2.13%	2.34%	5.01%
<b>Connecting Theory with Practice</b>	1	1	13	32	47
	1.06%	0.72%	4.28%	7.96%	-
	2.13%	2.13%	27.66%	68.09%	100.00%
	0.11%	0.11%	1.38%	3.41%	5.01%
<b>Sum</b>	94	139	304	402	939
	100.00%	100.00%	100.00%	100.00%	-
	-	-	-	-	-
	10.01%	14.80%	32.37%	42.81%	100.00%

**\*Sequence of numbers in a cell:**

Absolute Frequency

Relative frequency column

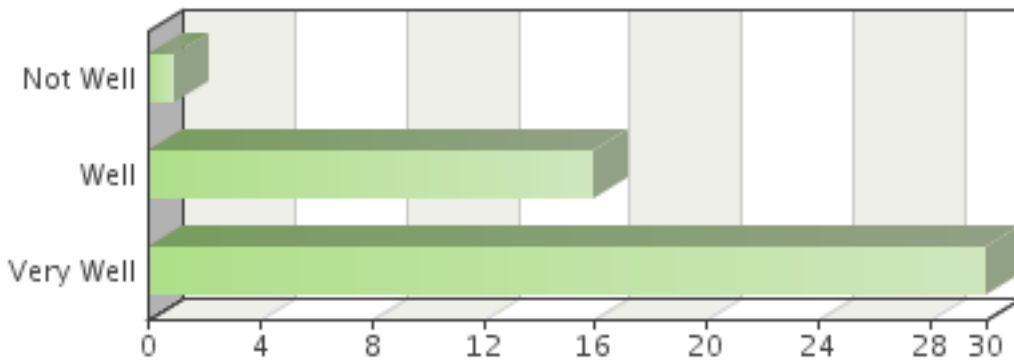
Relative frequency row

Relative frequency



### Question 6

How well do you feel this research experience equipped you with the skills needed to be successful in your graduate school and/or a professional career?

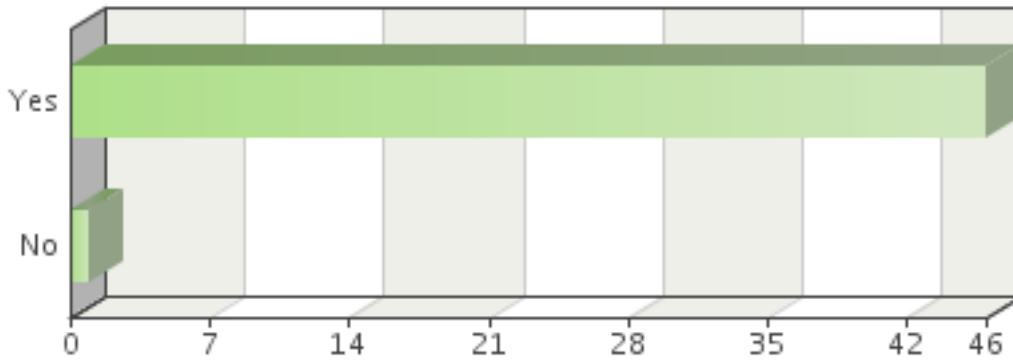


**Frequency table**

<b>Choices</b>	<b>Absolute Frequency</b>	<b>Relative frequency</b>	<b>Adjusted relative frequency</b>
Not Well	1	1.85%	2.13%
Well	16	29.63%	34.04%
Very Well	30	55.56%	63.83%
Not answered:	7	12.96%	-
<b>Sum:</b>	<b>54</b>	<b>100.00%</b>	<b>100.00%</b>

## Question 7

Overall, would you say you benefitted from participating in this research experience? Please explain your response.



Frequency table

Choices	Absolute Frequency	Relative frequency	Adjusted relative frequency
Yes	46	85.19%	97.87%
No	1	1.85%	2.13%
Not answered:	7	12.96%	-
<b>Sum:</b>	<b>54</b>	<b>100.00%</b>	<b>100.00%</b>

### Text input

I think this research experience has given me a glimpse of insight into what the future holds for graduate school and life as a researcher.

Research has allowed me to think about microbiology in a real world sense. It has made me think closely about my topic and how it relates to microbiology and dentistry. I have also developed a professional relationship with my professor mentor.

I gained very valuable experience and met some wonderful people. I learned to be more patient in research and gained skill in problem solving.

I believe that throughout my research experience here at Loyola I have gained a profound knowledge in my specific area of study both in practical and applicable terms.

The primary benefit that I procured from this experience is a sense of extreme dedication to not only pursuing an answer but continuing that pursuit in light of unforeseen setbacks.

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I learned new skills and learned how my research experience will be helpful in the future.

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I want to go to grad school in Chemistry, so working in the lab over the summer has given me the opportunity to see what chemistry research is really like.

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It has made me consider additional options for after graduation, and broadened my interests in the field of chemistry

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Being part of the WISER program allowed me to put my foot into the door and be confident to explore all my options to grad school and a future career. I met some amazing people that still work with in our lab, they've become friends and role models.

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Rather than just learning theories in class, research allows me to reach a deeper understanding of how this knowledge can be applicable to the real world. While researching, I realize that we as a society owe a lot to the hard work of researchers.

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Overall, my LUROP Fellowship enabled me to expand my existing knowledge of my field of study and gain skills and experiences that will prove essential for both admission to and successful performance during graduate school.

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The Provost gave me a more formal opportunity to explore my research--I am able to formally present my work and participate in LUROP sponsored workshops that furthered my ability to comb through research databases.

---

I am prepared for clinical work above my of my peers

---

Participating in research allowed me to develop further my critical thinking and workplace communication skills. It allowed me to work with a team to deal with problems that arose and to help one another in handling said problems.

---

I certainly benefitted from this experience. I was able to gain insight into a Clinical Psychology lab where I previously only had experience with Social Psychology

---

The most valuable thing I gained from this experience was becoming familiar with research techniques that I will possibly use in the future. I've also learned how to manage participants, something that I will almost certainly encounter in the future.

---

RMP has really helped me by exposing me to an aspect of science that I am not used to seeing during class!

---

It helped me figure out what I want to do in the future.

---

I would say yes because I learned a lot about various lab techniques as well as experiencing what it is like to do research over a long period of time.

---

Not many students are able to conduct research. It's not for everyone and have the opportunity to experience this and get hand on learning was just phenomenal

---

I had a wonderful time continuing my research project with my lab partners this summer. This was a successful endeavor.

---

This research experience has allowed me to grow as a researcher and learn many different techniques in biochemical research.

---

I believe this project gave me a great opportunity to do a process that I would have been very hard-pressed to attempt otherwise. It has been one that has helped build confidence as well as show me what being an artist today might be like in some ways.

---

Although this fellowship required a lot of work and was similar to a full time job, I learned a lot about the field of neuroscience and about scientific research in general. I also developed new skills as well as how to go about real scientific research.

---

Gave me insight into how historical research is conducted.

---

I think I learned a lot in terms of personal responsibility and overcoming setbacks, as well as really increasing my knowledge of my subject of study. I think this was a very beneficial experience that helped me improve in a number of ways.

---

I was able to work with my mentor and decide what I want to do in life after graduate school.

---

I feel that this research experience has benefited me in a myriad of ways. I have learned how to frame research hypotheses and how to develop experimental tasks in order to test my hypotheses.

---

It was a great learning experience that gave me the opportunity to get more work done within the research area of clinical psychology as well as allow me to continue growing and finding new opportunities to gain further experience

---

I learned more about what it was to be a researcher, and how to overcome obstacles by thinking outside of the box

---

I had a great summer working with my mentor and his graduate students. I learned so much and I had a blast doing it.

---

I had a wonderful research experience. I learned a lot about academia as well as gathering knowledge in my chosen field.

---

I know that I learned some incredible skills while doing research this summer. Not only have I learned laboratory techniques that I can apply in graduate school, but I also learned how to communicate with my mentor and solve various obstacles.

---

I learned so much.

---

I learned so many practical skills that can be transferred onto graduate school.

---

I believe that I benefited greatly from this research experience all around. It helped me on a more focused level to my topic as well as in a general manner with respect to my future career path.

---

It helped me learn that I would like to do research in my future education and career

---

I marginally benefited from the research experience. My mentor did not understand what the meaning of the word

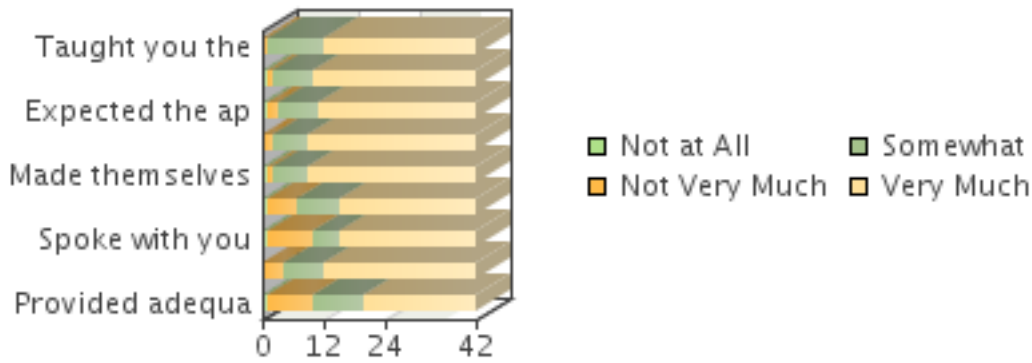
"mentoring," and I was used mainly as a research assistant, a position in which I have no skills. There was no help and this created conflict.

---

### **Question 8**

To what extent did your primary mentor do the following?

## Main cell group



	Not at All	Not Very Much	Somewhat	Very Much	Sum
<b>Taught you the skills needed to succeed on</b>	0 0.00% 0.00% 0.00%	1 2.86% 2.38% 0.26%	11 15.28% 26.19% 2.91%	30 11.32% 71.43% 7.94%	42 - 100.00% 11.11%
<b>Set clear expectations for your role and goals as a research</b>	1 16.67% 2.38% 0.26%	1 2.86% 2.38% 0.26%	8 11.11% 19.05% 2.12%	32 12.08% 76.19% 8.47%	42 - 100.00% 11.11%
<b>Expected the appropriate number of hours for the research</b>	1 16.67% 2.38% 0.26%	2 5.71% 4.76% 0.53%	8 11.11% 19.05% 2.12%	31 11.70% 73.81% 8.20%	42 - 100.00% 11.11%
<b>Provided regular, constructive feedback</b>	0 0.00% 0.00% 0.00%	2 5.71% 4.76% 0.53%	7 9.72% 16.67% 1.85%	33 12.45% 78.57% 8.73%	42 - 100.00% 11.11%
<b>Made themselves available and spent adequate</b>	1 16.67% 2.38% 0.26%	1 2.86% 2.38% 0.26%	7 9.72% 16.67% 1.85%	33 12.45% 78.57% 8.73%	42 - 100.00% 11.11%
<b>Spoke with you about opportunities to present research at</b>	1 16.67% 2.38% 0.26%	6 17.14% 14.29% 1.59%	8 11.11% 19.05% 2.12%	27 10.19% 64.29% 7.14%	42 - 100.00% 11.11%
<b>Spoke with you about graduate school</b>	1 16.67% 2.38% 0.26%	9 25.71% 21.43% 2.38%	5 6.94% 11.90% 1.32%	27 10.19% 64.29% 7.14%	42 - 100.00% 11.11%
<b>Gave useful advice about your academic or professional</b>	0 0.00% 0.00% 0.00%	4 11.43% 9.52% 1.06%	8 11.11% 19.05% 2.12%	30 11.32% 71.43% 7.94%	42 - 100.00% 11.11%

	Not at All	Not Very Much	Somewhat	Very Much	Sum
<b>Provided adequate opportunities to meet colleagues in</b>	1	9	10	22	42
	16.67%	25.71%	13.89%	8.30%	-
	2.38%	21.43%	23.81%	52.38%	100.00%
	0.26%	2.38%	2.65%	5.82%	11.11%
<b>Sum</b>	6	35	72	265	378
	100.00%	100.00%	100.00%	100.00%	-
	-	-	-	-	-
	1.59%	9.26%	19.05%	70.11%	100.00%

**\*Sequence of numbers in a cell:**

Absolute Frequency

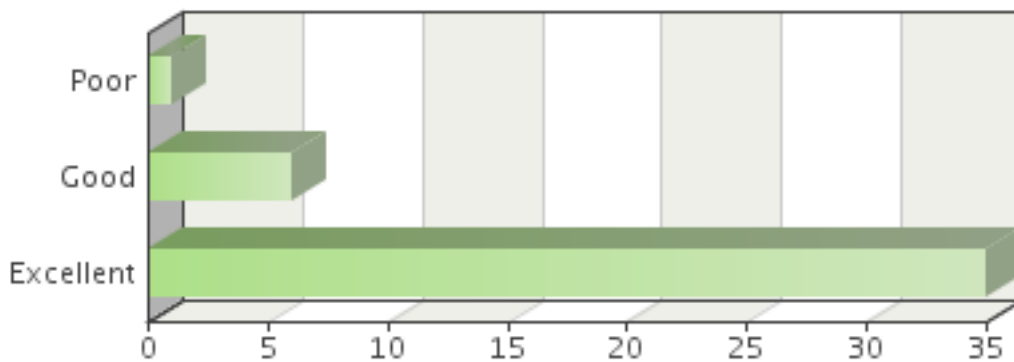
Relative frequency column

Relative frequency row

Relative frequency

## Question 9

Overall, how would you rank your mentor? Please explain your response.



Frequency table

Choices	Absolute Frequency	Relative frequency	Adjusted relative frequency
Poor	1	1.85%	2.38%
Good	6	11.11%	14.29%
Excellent	35	64.81%	83.33%
Not answered:	12	22.22%	-
<b>Sum:</b>	<b>54</b>	<b>100.00%</b>	<b>100.00%</b>

### Text input

Dr. Morrison is extremely helpful and always willing to express his opinion. He cares very much about helping undergraduates understand research and what the future can hold.

My mentor was a great teacher, giving me the skills I needed to reach goals. We had great meetings with flow of conversation with plenty of feedback. But at times, he seemed inaccessible at times.

Extremely caring, helpful, available.

My mentor is very approachable and guided me all throughout my research.

He was great! Very helpful and easy to work with.

She was very flexible with time, gave helpful advice, and was good at explaining things when I had difficulties.



---

I adore my mentors and I am very great full for everything they do but I wish I would have had more advice given to me unrelated to our project, such as grad school, careers, and networking.

---

My mentor always gave me constructive feedback on areas that I can improve. She also encouraged me to do problem solving.

---

Very helpful, puts educational experience at the forefront.

---

Dr. Olsen always made time to meet with me personally, in my small project group, and with the entire Olsen lab overall. He is exceptionally considerate and always provides clear and useful feedback on any concerns I have.

---

A mentor and a guide to all parts of the field and applications

---

Dr. Steidl was patient throughout any problems we encountered. He was understanding and did not demand too much from me or the other members of the project.

---

Cynthia was laid back and very open. She involved me in all aspects of the research she has been conducting, including meetings with her advisor.

---

Dr. Morrison is a wonderful mentor. He truly cares about each of his students as people, not just as research assistants. He spends a lot of time advising us on graduate school and how to be an effective researcher.

---

She has been excellent to work with. She has taught me a lot not only about research but about career and graduate opportunities and how to figure out what is best for me.

---

Dr. Putonti did a fantastic job of explaining things to me and helping me through the summer reasearch.

---

Dr. Jennifer Mierisch Is a class act, never condescending and always available for help, even when you made errors.

---

I've worked with my mentor for two years and we've built a great relationship. I can work independently without his supervision, but I know he is available if I need help.

---

Dr. Ballicora is very open with his students and gives constructive feedback.

---

We did not remain in very regular contact, and as there was a photo class using the material I need this semester, I will still be conducting more work in the near future. I hope that the rest of the time working will prove to be fruitful.

---

He is very good at what he does and is great at preparing students to work in his lab and get a lot of work done. However, compared to other mentors, he requires many more hours per week.

---

gave me plenty of constructive criticism as well as helping me formulate my own ideas about the research.

---

Dr. Mierisch is really involved; she takes the time to meet with each member of our lab one-on-one and spend time with each person on our individual projects. She is patient and understanding and sets clear guidelines for what is expected of us.

---

---

My mentor was very helpful in talking to me about the graduate school process. She was also very understanding that it was my first time working on research and she was very patient and explained things clearly to me.

---

My mentor was incredibly helpful and patient in explaining the research project to me. He made very sure that I understood everything thoroughly and was very welcoming to any questions that I had. He also spent much time discussing graduate school with me

---

She's just a very encouraging person who seems like she wants to help me succeed in every way and has so much knowledge that she is willing to share with me.

---

Overall he was a very well suited mentor and had a large amount of knowledge in the field of historical research.

---

My mentor is amazing! He always makes time to talk to me and helps me out when I am having issues with my experiments.

---

My mentor was incredible. He was brilliant and insightful, yet also supportive. He really helped me push myself to become a better writer and scholar.

---

Dr. Ye is a very driven researcher who always pushes his students to try their hardest.

---

She was very open and approachable. I always felt comfortable asking questions.

---

My mentor helped explain everything about the lab, and the basic scientific principles involved to all of the techniques used in the experiments

---

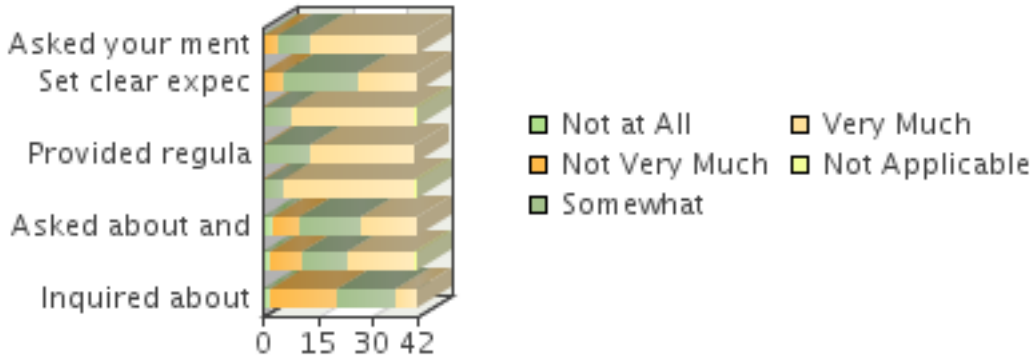
My mentor did not help me when I asked for help, nor did he give specific expectations for the research.

---

## Question 10

To what extent did you do the following during your research experience?

## Main cell group



	Not at All	Not Very Much	Somewhat	Very Much	Not Applicable	Sum
<b>Asked your mentor to teach you new skills necessary</b>	1 12.50% 2.38% 0.30%	3 6.52% 7.14% 0.90%	9 9.18% 21.43% 2.69%	29 16.11% 69.05% 8.66%	0 0.00% 0.00% 0.00%	42 - 100.00% 12.54%
<b>Set clear expectations for what you wanted from your mentor</b>	0 0.00% 0.00% 0.00%	6 13.04% 14.29% 1.79%	20 20.41% 47.62% 5.97%	16 8.89% 38.10% 4.78%	0 0.00% 0.00% 0.00%	42 - 100.00% 12.54%
<b>Put in the appropriate amount of work for the project</b>	0 0.00% 0.00% 0.00%	1 2.17% 2.38% 0.30%	7 7.14% 16.67% 2.09%	33 18.33% 78.57% 9.85%	1 33.33% 2.38% 0.30%	42 - 100.00% 12.54%
<b>Provided regular, constructive information/reports about</b>	0 0.00% 0.00% 0.00%	1 2.17% 2.44% 0.30%	12 12.24% 29.27% 3.58%	28 15.56% 68.29% 8.36%	0 0.00% 0.00% 0.00%	41 - 100.00% 12.24%
<b>Made yourself available to your mentor to discuss</b>	0 0.00% 0.00% 0.00%	1 2.17% 2.38% 0.30%	5 5.10% 11.90% 1.49%	35 19.44% 83.33% 10.45%	1 33.33% 2.38% 0.30%	42 - 100.00% 12.54%
<b>Asked about and looked into opportunities to present</b>	3 37.50% 7.14% 0.90%	7 15.22% 16.67% 2.09%	17 17.35% 40.48% 5.07%	15 8.33% 35.71% 4.48%	0 0.00% 0.00% 0.00%	42 - 100.00% 12.54%
<b>Asked about graduate school</b>	2 25.00% 4.76% 0.60%	9 19.57% 21.43% 2.69%	12 12.24% 28.57% 3.58%	18 10.00% 42.86% 5.37%	1 33.33% 2.38% 0.30%	42 - 100.00% 12.54%
<b>Inquired about meeting colleagues in</b>	2 25.00% 4.76% 0.60%	18 39.13% 42.86% 5.37%	16 16.33% 38.10% 4.78%	6 3.33% 14.29% 1.79%	0 0.00% 0.00% 0.00%	42 - 100.00% 12.54%

	Not at All	Not Very Much	Somewhat	Very Much	Not Applicable	Sum
	8	46	98	180	3	335
<b>Sum</b>	100.00%	100.00%	100.00%	100.00%	100.00%	-
	-	-	-	-	-	-
	2.39%	13.73%	29.25%	53.73%	0.90%	100.00%

**\*Sequence of numbers in a cell:**

Absolute Frequency

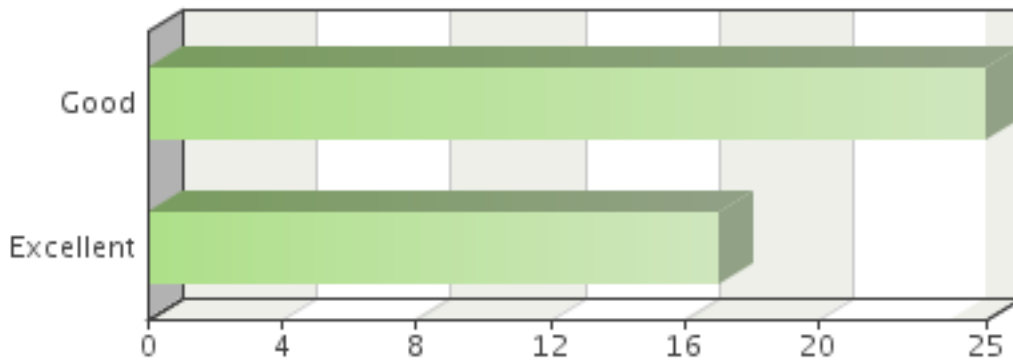
Relative frequency column

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Relative frequency

## Question 11

Overall, how would you rank your own performance as a LUROP fellow? Please explain your response.



Frequency table

Choices	Absolute Frequency	Relative frequency	Adjusted relative frequency
Good	25	46.30%	59.52%
Excellent	17	31.48%	40.48%
Not answered:	12	22.22%	-
<b>Sum:</b>	<b>54</b>	<b>100.00%</b>	<b>100.00%</b>

### Text input

I think I can become a little bit more vocal about what I hope to get out of this experience as a research fellow.

I spent a lot of time in the lab, as I have in the past and working on my own to continue this project. I regularly talked to my mentor and we formed goals and problem solved quite a bit.

It was a leaning experience, so mistakes were made, but overall, I think I did well.

I put in lots of time towards my project and was able to accomplish a lot, however I think that I could have been more proactive about further research or a deeper understanding of the field.

I was very diligent and dedicated to our project! I feel like I didn't ask enough questions but as a freshman I didn't even know what to ask.

I believe that I met the expectations of my mentor and the expectations that I set for myself. I have learned a tremendous amount from my experience.

---

I spent at least 25 hours per week conducting research this summer, following all tasks with great thought to instructions. My work was timely and reports frequent. My mentor, graduate student, and fellow undergrads took no issue with my conduct.

---

I think that I performed adequately as a research fellow. I put in many hours every week and did my best to ensure the project was on track and was going well. This did not always lead to ideal results, but my effort was never lacking.

---

It was hard to accomplish many things in such a short period of time, but I think I did what was required of me.

---

I took initiative with starting my project and once I learned what I needed to do, I independently pursued data collection. I also instructed other students in how to conduct the experiment. However, I was not around for some of the summer.

---

I was very committed to the project and excelling any expectations set for me by my mentor.

---

I think my performance was excellent, I put a lot of time and effort into my research this summer.

---

I worked 11+ hours a week every day and conducted very solid research, a lot of success and a lot of failure.

---

I fulfilled the guidelines my mentor and I set, and I continued making progress on our pre-existing project.

---

I am very diligent and took on any task that was given to me.

---

I realize that I was caught up in my own personal business over the summer and because of this I did not contact my mentor as much as I could have.

---

I put in a lot of time this summer working in the lab and became rather autonomous with what I did. I was able to complete a rather high volume of work and completed many experiments for both my own project as well as finished another project.

---

there is always more I could have done in hindsight but i worked hard appropriately at the time

---

I worked hard and put in a lot of time in the lab, both working on my own projects and carrying my weight for our team projects. If I didn't know something, I tried to learn how to do it. There is always room for improvement, but I worked really hard.

---

I believe that I was good in communication with my mentor and I did my very best to complete all of the tasks that me and my mentor agreed on.

---

I feel that I tried my best at being a LUROP fellow. I feel that I was (and still am) genuinely interested in the research topic. I also very much liked working with my mentor and expanding my knowledge of how to conduct research.

---

I think I accomplish a good amount within the time that we had for this program.

---

I spent a lot of time in lab and made a lot of progress towards achieving my research goals. Overall, I think I did a great job.

---

---

I worked hard during my Provost Fellowship and produced a paper of real academic value.

---

I dedicated over 25 hours a week to my project and generated a significant amount of data for my collaborative research project.

---

I did everything that was required in a timely fashion.

---

I experienced challenges in the beginning with professionalism, but developed as the months went on.

---

I believe I performed very well with respect to the LUROP fellowship expectations as well as meeting my own expectations for the research experience.

---

I did everything that was asked from my mentor and anyone else who asked me to do any tasks in and around the lab.

---

With little final goal, I did what I could. However, I do acknowledge that I could have spent more time on the research at hand, and communicated better with my mentor.

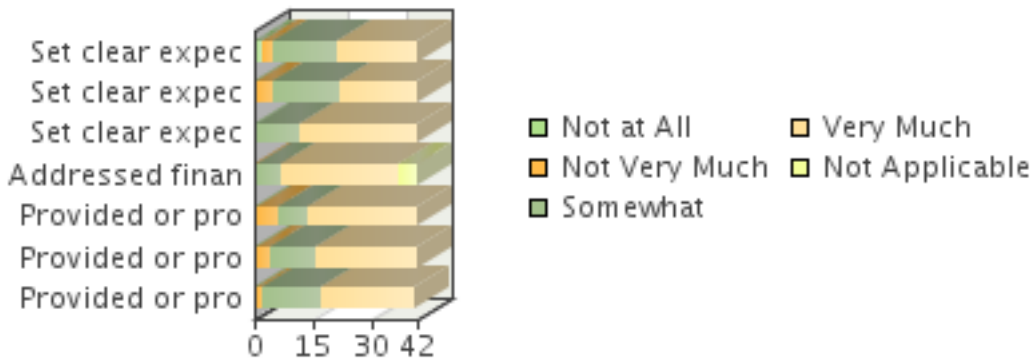
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## Question 12

To what extent did your specific LUROP program (Provost Fellowship, RMP, WISER, etc.) do the following?

## Main cell group



	Not at All	Not Very Much	Somewhat	Very Much	Not Applicable	Sum
<b>Set clear expectations for your role as a research</b>	2 28.57% 4.76% 0.68%	3 17.65% 7.14% 1.02%	16 18.82% 38.10% 5.46%	21 11.73% 50.00% 7.17%	0 0.00% 0.00% 0.00%	42 - 100.00% 14.33%
<b>Set clear expectations for your mentors role</b>	1 14.29% 2.38% 0.34%	4 23.53% 9.52% 1.37%	17 20.00% 40.48% 5.80%	20 11.17% 47.62% 6.83%	0 0.00% 0.00% 0.00%	42 - 100.00% 14.33%
<b>Set clear expectations financially regarding stipend</b>	1 14.29% 2.38% 0.34%	0 0.00% 0.00% 0.00%	11 12.94% 26.19% 3.75%	30 16.76% 71.43% 10.24%	0 0.00% 0.00% 0.00%	42 - 100.00% 14.33%
<b>Addressed financial requests or concerns in a timely</b>	0 0.00% 0.00% 0.00%	1 5.88% 2.38% 0.34%	6 7.06% 14.29% 2.05%	30 16.76% 71.43% 10.24%	5 100.00% 11.90% 1.71%	42 - 100.00% 14.33%
<b>Provided or promoted opportunities to meet other</b>	1 14.29% 2.38% 0.34%	5 29.41% 11.90% 1.71%	8 9.41% 19.05% 2.73%	28 15.64% 66.67% 9.56%	0 0.00% 0.00% 0.00%	42 - 100.00% 14.33%
<b>Provided or promoted professional development opportunities</b>	1 14.29% 2.38% 0.34%	3 17.65% 7.14% 1.02%	12 14.12% 28.57% 4.10%	26 14.53% 61.90% 8.87%	0 0.00% 0.00% 0.00%	42 - 100.00% 14.33%
<b>Provided or promoted opportunities to present or publish</b>	1 14.29% 2.44% 0.34%	1 5.88% 2.44% 0.34%	15 17.65% 36.59% 5.12%	24 13.41% 58.54% 8.19%	0 0.00% 0.00% 0.00%	41 - 100.00% 13.99%
<b>Sum</b>	7 100.00% - 2.39%	17 100.00% - 5.80%	85 100.00% - 29.01%	179 100.00% - 61.09%	5 100.00% - 1.71%	293 - - 100.00%

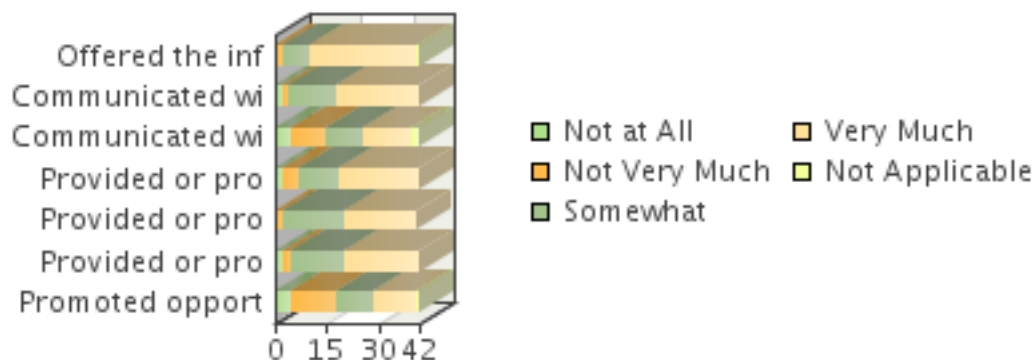
\*Sequence of numbers in a cell:

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### **Question 14**

To what extent did LURUP as a whole (website, e-mails, workshops, etc.) do the following?

## Main cell group



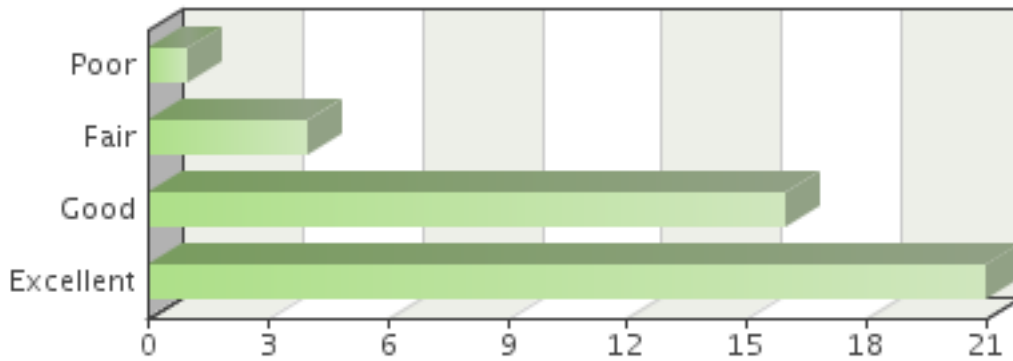
	Not at All	Not Very Much	Somewhat	Very Much	Not Applicable	Sum
<b>Offered the information you needed to apply for your LUROP</b>	0 0.00% 0.00% 0.00%	2 5.41% 4.76% 0.68%	8 8.99% 19.05% 2.73%	31 21.09% 73.81% 10.58%	1 25.00% 2.38% 0.34%	42 - 100.00% 14.33%
<b>Communicated with you to let you know about the LUROP</b>	2 12.50% 4.76% 0.68%	2 5.41% 4.76% 0.68%	14 15.73% 33.33% 4.78%	24 16.33% 57.14% 8.19%	0 0.00% 0.00% 0.00%	42 - 100.00% 14.33%
<b>Communicated with you to let you know about the LUROP</b>	5 31.25% 11.90% 1.71%	10 27.03% 23.81% 3.41%	11 12.36% 26.19% 3.75%	14 9.52% 33.33% 4.78%	2 50.00% 4.76% 0.68%	42 - 100.00% 14.33%
<b>Provided or promoted opportunities to meet other</b>	2 12.50% 4.76% 0.68%	5 13.51% 11.90% 1.71%	12 13.48% 28.57% 4.10%	23 15.65% 54.76% 7.85%	0 0.00% 0.00% 0.00%	42 - 100.00% 14.33%
<b>Provided or promoted professional development opportunities</b>	0 0.00% 0.00% 0.00%	2 5.41% 4.88% 0.68%	18 20.22% 43.90% 6.14%	21 14.29% 51.22% 7.17%	0 0.00% 0.00% 0.00%	41 - 100.00% 13.99%
<b>Provided or promoted opportunities to present or publish</b>	2 12.50% 4.76% 0.68%	3 8.11% 7.14% 1.02%	15 16.85% 35.71% 5.12%	22 14.97% 52.38% 7.51%	0 0.00% 0.00% 0.00%	42 - 100.00% 14.33%
<b>Promoted opportunities to do research</b>	5 31.25% 11.90% 1.71%	13 35.14% 30.95% 4.44%	11 12.36% 26.19% 3.75%	12 8.16% 28.57% 4.10%	1 25.00% 2.38% 0.34%	42 - 100.00% 14.33%
<b>Sum</b>	16 100.00% - 5.46%	37 100.00% - 12.63%	89 100.00% - 30.38%	147 100.00% - 50.17%	4 100.00% - 1.37%	293 - - 100.00%

\*Sequence of numbers in a cell:

- Absolute Frequency
- Relative frequency column
- Relative frequency row
- Relative frequency

### Question 15

Overall, how would you rank LUROP as a whole? Please explain your response.



**Frequency table**

Choices	Absolute Frequency	Relative frequency	Adjusted relative frequency
Poor	1	1.85%	2.38%
Fair	4	7.41%	9.52%
Good	16	29.63%	38.10%
Excellent	21	38.89%	50.00%
Not answered:	12	22.22%	-
<b>Sum:</b>	<b>54</b>	<b>100.00%</b>	<b>100.00%</b>

#### Text input

The entire program has made me feel welcomed and allowed me to meet other people doing interesting research.

LUROP is a great resource and department. I would only just say continue on with more. I did receive workshop invitation

LUROP has been very helpful providing opportunities to research and present research.

---

I would like to learn more about research opportunities outside of Loyola. I would also like to meet researchers in my field and learn about their careers.

---

I was accepted into LUROP as a Junior/Senior. I wish that the programs were more advertised to freshmen (science majors especially) and presented in a way that makes the projects seem welcoming to all students regardless of their major.

---

The program gave me and many others unforgettable experiences.

---

This program is an excellent way to engage students in work that they could potentially do after graduation. It gives them an edge over students who just focus on academia.

---

LUROP did an adequate job of advertising the fellowships and other opportunities available to undergraduates, but I felt that they could have done a better job of communication through e-mail about events and opportunities.

---

LUROP is a great program. I'm extremely glad we have it here at Loyola. I would never have had such opportunities to do this extensive of research if we didn't have access to RMP or to Provost Fellowships.

---

LUROP is a great opportunity to get involved in research at Loyola. I do wish there was more funding so I could continue my project through the school year though.

---

The chance to conduct research at a university such as Loyola is a privilege and LUROP makes it possible

---

I have been given many opportunities by the LUROP office.

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Every time I asked a question, I was promptly met with a satisfactory response, which was very helpful.

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I liked being able to do real research with a scientist, and this makes it possible.

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clear about sharing opportunities and making researching a great experience

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Great program without it I don't think I would have been able to know how important fellowships are it was a great experience.

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I think at times it is difficult to hear about research fellowship opportunities. I feel that one really has to spend time searching for them. Otherwise, LUROP is excellent. Everyone working for LUROP is incredibly nice and helpful and cares for my dev.

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Amazing experience.

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I think LUROP is a great way for students to get involved and learn more about what it means to be a researcher.

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The LUROP program was well-organized and provided me with many opportunities.

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I have no complaints for LUROP. This provided me with an experience not many people can say they've had. I'm honored to have been part of this.

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It was a great program to introduce people to a research program and help them to determine whether graduate school is the right option. Having my own project to work on was a lot of work but I learned a lot.

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It has the potential to be a good program, but I would have appreciated more structure.

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**Question 17**

If you've worked with a faculty member in the past, how would you compare your mentoring experience with your graduate student mentor through this program to that experience?

**Question 18**

In what way, if any, did the three meetings during the summer influence your future plans?



