

## Supplemental Digital Appendix 2A: UCSF RESEARCH PRE-PROGRAM SURVEY

To help us track your (anonymous) responses from the pre-program evaluation to the post-program evaluation, please enter below the **name of the street you grew up on**, followed by the **last four digits of your cell phone number**.

Example: *Potrero1234*

**Please tell us about your background and scholarly experience.**

**Gender identification:**

- ☐ Male
- ☐ Female

**Racial identification (please choose all that apply):**

- ☐ African-American
- ☐ Asian/Pacific Islander
- ☐ Latino
- ☐ Native American
- ☐ Non-Hispanic White
- ☐ Mixed

**Year in school:**

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 6

**Are you doing:**

- ☐ A summer (Pathways Explore) or quarter research project?
- ☐ A yearlong research project?

**Do you have prior research experience?**

- ☐ None
- ☐ A little
- ☐ Some
- ☐ Moderate
- ☐ Substantial

**Have you (please check all that apply):**

- ☐ Designed a study?
- ☐ Collected data?
- ☐ Analyzed data?

**Have you:**

Yes

No

	Yes	No
1. Presented a POSTER at a professional meeting?	<input type="radio"/> 1. Presented a POSTER at a professional meeting?	<input type="radio"/> 2. Presented an ORAL PRESENTATION at a professional meeting?
2. Presented an ORAL PRESENTATION at a professional meeting?	<input type="radio"/> 1. Presented a POSTER at a professional meeting?	<input type="radio"/> 2. Presented an ORAL PRESENTATION at a professional meeting?
3. Been an author on a peer reviewed paper?	<input type="radio"/> 1. Presented a POSTER at a professional meeting?	<input type="radio"/> 2. Presented an ORAL PRESENTATION at a professional meeting?
4. Been FIRST AUTHOR on a peer reviewed paper?	<input type="radio"/> 1. Presented a POSTER at a professional meeting?	<input type="radio"/> 2. Presented an ORAL PRESENTATION at a professional meeting?
5. Written an op-ed or other non-peer reviewed article about your work?	<input type="radio"/> 1. Presented a POSTER at a professional meeting?	<input type="radio"/> 2. Presented an ORAL PRESENTATION at a professional meeting?

Please indicate your level of confidence in your SKILLS and ABILITIES in the following areas on a scale of 1-5. 1=not at all confident and 5=extremely confident.

	1	2	3	4	5
1. To choose the career that best fits my interests	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
2. To choose the career that highlights my abilities	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
3. To achieve the career I want	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
4. To be successful in a research career	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
5. To be successful in an academic career	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
6. To find good mentors	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
7. To manage my relationship with my mentor	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career

	1	2	3	4	5
8. To effectively showcase myself professionally	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
9. To manage professional challenges	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
10. To effectively describe my research	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career
11. To communicate professionally	<input type="radio"/> 1. To choose the career that best fits my interests	<input type="radio"/> 2. To choose the career that highlights my abilities	<input type="radio"/> 3. To achieve the career I want	<input type="radio"/> 4. To be successful in a research career	<input type="radio"/> 5. To be successful in an academic career

Please indicate your level of agreement with the following statements on a scale of 1-5. 1=Strongly Disagree and 5=Strongly Agree.

	1	2	3	4	5
1. A research and/or academic career will complement my clinical work	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research
2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research
3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research
4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 1. A research and/or academic career will	<input type="radio"/> 2. A research and/or academic career will	<input type="radio"/> 3. A research and/or academic career will best	<input type="radio"/> 4. Minority students are encouraged to	<input type="radio"/> 5. Non-minority students are encouraged to

	1	2	3	4	5
	complement my clinical work	provide me with personal and professional satisfaction	utilize my skills and training	pursue careers in research	pursue careers in research
5. Non-minority students are encouraged to pursue careers in research	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research
6. I have a clear set of future goals for my career	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research
7. I have discussed my career goals with my mentor(s)	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research
8. I plan to pursue an academic career	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research
9. I plan to pursue research as part of my career	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research
10. I plan to continue building my network and skills to develop my career	<input type="radio"/> 1. A research and/or academic career will complement my clinical work	<input type="radio"/> 2. A research and/or academic career will provide me with personal and professional satisfaction	<input type="radio"/> 3. A research and/or academic career will best utilize my skills and training	<input type="radio"/> 4. Minority students are encouraged to pursue careers in research	<input type="radio"/> 5. Non-minority students are encouraged to pursue careers in research

Please indicate your level of agreement with the following statements on a scale of 1-5. 1=Strongly Disagree and 5=Strongly Agree

	1	2	3	4	5
1. I have mentors who provide strong support for my research interests	<input type="radio"/> 1. I have mentors who	<input type="radio"/> 2. I have mentors who	<input type="radio"/> 3. I am getting adequate	<input type="radio"/> 4. I am getting adequate	<input type="radio"/> 5. I am getting adequate

	1	2	3	4	5
	provide strong support for my research interests	provide strong support for my clinical interests	support from the institution to pursue my research interests	support to develop skills to pursue a research career	support to spend the summer working in the area of my greatest interest
2. I have mentors who provide strong support for my clinical interests	1. I have mentors who provide strong support for my research interests	2. I have mentors who provide strong support for my clinical interests	3. I am getting adequate support from the institution to pursue my research interests	4. I am getting adequate support to develop skills to pursue a research career	5. I am getting adequate support to spend the summer working in the area of my greatest interest
3. I am getting adequate support from the institution to pursue my research interests	1. I have mentors who provide strong support for my research interests	2. I have mentors who provide strong support for my clinical interests	3. I am getting adequate support from the institution to pursue my research interests	4. I am getting adequate support to develop skills to pursue a research career	5. I am getting adequate support to spend the summer working in the area of my greatest interest
4. I am getting adequate support to develop skills to pursue a research career	1. I have mentors who provide strong support for my research interests	2. I have mentors who provide strong support for my clinical interests	3. I am getting adequate support from the institution to pursue my research interests	4. I am getting adequate support to develop skills to pursue a research career	5. I am getting adequate support to spend the summer working in the area of my greatest interest
5. I am getting adequate support to spend the summer working in the area of my greatest interest	1. I have mentors who provide strong support for my research interests	2. I have mentors who provide strong support for my clinical interests	3. I am getting adequate support from the institution to pursue my research interests	4. I am getting adequate support to develop skills to pursue a research career	5. I am getting adequate support to spend the summer working in the area of my greatest interest
6. I am able to communicate my needs to my mentor	1. I have mentors who provide strong support for my research interests	2. I have mentors who provide strong support for my clinical interests	3. I am getting adequate support from the institution to pursue my research interests	4. I am getting adequate support to develop skills to pursue a research career	5. I am getting adequate support to spend the summer working in the area of my greatest interest
7. I understand the rules of authorship	1. I have mentors who provide strong support for my research interests	2. I have mentors who provide strong support for my clinical interests	3. I am getting adequate support from the institution to pursue my research interests	4. I am getting adequate support to develop skills to pursue a research career	5. I am getting adequate support to spend the summer working in the area of my greatest interest
8. I have discussed authorship with my mentor	1. I have mentors who provide strong support for my research interests	2. I have mentors who provide strong support for my clinical interests	3. I am getting adequate support from the institution to pursue my	4. I am getting adequate support to develop skills to pursue a research	5. I am getting adequate support to spend the summer working in the

	1	2	3	4	5
	research interests			career	area of my greatest interest
9. I understand the various ways to disseminate research and scholarship	<input type="radio"/> 1. I have mentors who provide strong support for my research interests	<input type="radio"/> 2. I have mentors who provide strong support for my clinical interests	<input type="radio"/> 3. I am getting adequate support from the institution to pursue my research interests	<input type="radio"/> 4. I am getting adequate support to develop skills to pursue a research career	<input type="radio"/> 5. I am getting adequate support to spend the summer working in the area of my greatest interest

Please comment on your expectations of your summer/yearlong (Pathways Explore/Pathways) experience -- 1) what you hope you will achieve and/or learn, and 2) what you expect will be your challenges.

## Supplemental Digital Appendix 2B: UCSF RESEARCH POST-PROGRAM SURVEY

Please keep in mind that completion of this post-program survey is mandatory for all RAPtr yearlong and summer/quarterly learners.

Thank you for your time and participation!

☐

To help us track your (anonymous) responses from the pre-program evaluation to the post-program evaluation, please enter below the **name of the street you grew up on**, followed by the **last four digits of your cell phone number**.

Example: Potrero1234

☐

Please tell us about your summer research experience.

Did you attend regular study or lab team meetings?

- ☒ Yes
- ☐ No

☐

Did you review research literature related to your topic?

- ☒ Yes
- ☐ No

☐

Display This Question:

If Did you review research literature related to your topic? Yes Is Selected Edit

Had you ever reviewed literature before?

- ☒ Yes
- ☐ No

☐

Did you collect data?

- ☒ Yes
- ☐ No

☐

Display This Question:

If Did you collect data? Yes Is Selected Edit

Had you ever collected data before?

- ☒ Yes
- ☐ No

Did you recruit patients for study participation?

- ☒ Yes
- ☐ No

☐

Display This Question:

If Did you recruit patients for study participation? Yes Is Selected Edit

Had you ever recruited patients before?

- ☒ Yes

- ☐ No



Did you analyze data?

- ☐ Yes
- ☐ No



Display This Question:

If Did you analyze data? **Yes** Is **Selected** Edit

Had you ever analyzed data before?

- ☐ Yes
- ☐ No

Did you work with a statistician?

- ☐ Yes
- ☐ No



Display This Question:

If Did you work with a statistician? **Yes** Is **Selected** Edit

Had you ever worked with a statistician before?

- ☐ Yes
- ☐ No



Did you write an abstract describing the findings?

- ☐ Yes
- ☐ No



Display This Question:

If Did you write an abstract describing the findings? **Yes** Is **Selected** Edit

Had you ever written an abstract before?

- ☐ Yes
- ☐ No



Did you draft a manuscript?

- ☐ Yes
- ☐ No



Display This Question:

If Did you draft a manuscript? **Yes** Is **Selected** Edit

Had you ever drafted a manuscript before?

- ☐ Yes



- ☐ No

Are you doing:

- ☐ A summer (Pathways Explore) or quarter research project?
- ☐ A yearlong research project?



Display This Question:

If Are you doing: A summer (Pathways Explore) or quarter research project? Is Selected Edit

**If you are doing a summer (Pathways Explore) or quarter research project, will you continue to work on your project during the coming school year?**

- ☐ Yes
- ☐ No



Have you:

	Yes	No
Presented a poster at a professional meeting?	<input type="radio"/>	<input type="radio"/>
Presented an oral presentation at a professional meeting?	<input type="radio"/>	<input type="radio"/>
Been an author on a peer reviewed paper?	<input type="radio"/>	<input type="radio"/>
Been first author on a peer reviewed paper?	<input type="radio"/>	<input type="radio"/>
Written an op-ed or other non-peer reviewed article about your work?	<input type="radio"/>	<input type="radio"/>

**Please indicate your level of confidence in your SKILLS and ABILITIES in the following areas on a scale of 1-5. 1=not at all confident and 5=extremely confident.**

	1	2	3	4	5
1. To choose the career that best fits my interests	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. To choose the career that highlights my abilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. To achieve the career I want	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. To be successful in a research career	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. To be successful in an academic career	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. To find good mentors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. To manage my relationship with my mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. To effectively showcase myself professionally	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. To manage professional challenges	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. To effectively describe my research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. To communicate professionally	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



**Please indicate your level of agreement with the following statements on a scale of 1-5. 1=Strongly Disagree and 5=Strongly Agree.**

	1	2	3	4	5
1. A research and/or academic career will complement my clinical work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. A research and/or academic career will provide me with personal and professional satisfaction.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. A research and/or academic career will best utilize my skills and training.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. Minority students are encouraged to pursue careers in research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Non-minority students are encouraged to pursue careers in research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. I have a clear set of future goals for my career.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. I have discussed my career goals with my mentor(s).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. I plan to pursue an academic career.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. I plan to pursue research as part of my career.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. I plan to continue building my network and skills to develop my career.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Please indicate your level of agreement with the following statements on a scale of 1-5. 1=Strongly Disagree and 5=Strongly Agree**

	1	2	3	4	5
1. I have mentors who provide strong support for my research interests.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. I have mentors who provide strong support for my clinical interests.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. I am getting adequate support from the institution to pursue my research interests.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. I am getting adequate support to develop skills to pursue a research career.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. I received adequate support to spend the summer working in the area of my greatest interest.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. I am able to communicate my needs to my mentor.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. I understand the rules of authorship.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. I have discussed authorship with my mentor.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. I understand the various ways to disseminate research and scholarship.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Please tell us a few things about you.**

**What year in school are you?**

- ☐ I completed 1st year in May 2014

- ☐ I completed 3rd year in May 2014
- ☐ Other (please explain):

**Gender identification:**

- ☐ Male
- ☐ Female

**Racial/ethnic identification (please choose all that apply):**

- ☐ African-American
- ☐ Asian/Pacific Islander
- ☐ Latino
- ☐ Native American
- ☐ Non-Hispanic White
- ☐ Mixed
- ☐ Other (please explain):

**Please comment on your summer experience, its strengths, and how it might have been improved.**