Info Session for SURF - Summer 2016

Sean Burns
Director, Office of Undergraduate Research
I was able to visit archival libraries all over the world - The British Library, the National Art Library in London, the New York Public Library for the Performing Arts, the New York Historical Society Archives, and the Smithsonian and Library of Congress in DC.

I spent the summer becoming an expert in mid-nineteenth century theater history without needing to rush into the details that most obviously pertained to my event, the Astor Place Riot. That breadth allowed me to find connections that no other scholars have talked about.

-Eli
Alexandra Roedder, Music
The Violoncello and the Romantic Era: 1820-1920
Mentor: Professor Richard Taruskin, Music

Matthew Lockshin, Philosophy “Nietzsche’s Prophesy: Eternal Return as a Consequence of Nihilism”
Mentor: Professor Hans Sluga, Philosophy
The SURF award permitted me to travel to Cap-Haitian, Haiti so that I could conduct ethnographic research first-hand for my senior honors thesis project. Without the SURF stipend none of my on-the-ground research would have been possible. This included almost twenty in-depth interviews and a 2-month participant observation position with an organization. The SURF award allowed for me to live and travel safely while in Haiti conducting research, and for that I could not be more grateful.

-Julia
Social Sciences

Examples...

Amy Marie Jimenez, Psychology
“Encoding and retrieval of emotional pictures in major depressive disorder”
Mentor: Robert Knight, Psychology

Devin Beaulieu, Geography
Bolivia’s Constituent Assembly: Remapping the State"
Mentor: Michael Watts, Geography

Joshua Begley, American Studies
“Well-Intentioned in the Worst Way: Retracing the Life of James Plemon Coleman”
Mentor: Victoria Robinson, Ethnic Studies & American Cultures

Gene Marie Tempest, History, French
“Anti-Nazism and the Atelier Populaire: The Memory of Nazi Collaboration in the Posters of Mai '68”
Mentor: Susanna Barrows, History
Science/Engineering:

The SURF award gave me the financial resources to spend an entire summer working extensively within my lab. This immersion allowed me to drive the pace of my research. Additionally, the mentoring from SURF STEM mentor Nathan and the SURF Conference experience have been phenomenal in developing my confidence in research and ability to demonstrate and speak about my work.

-Neha
Catherine Ngo, MCB, Chinese Language, “Positional Cloning of the curly mutation in Xenopus tropicalis”
Mentor: Richard Harland, MCB

Julie Himes, IB, “Cultivation and Hatchling Feeding Behavior of the Blue-Ringed Octopus Hapalochlaena lunulata”
Mentor: Roy Caldwell, IB

Sara Weinstein, IB, “The Progression, prevalence, and transmission of Batrachochytrium dendrobatidis infection in Batrachoseps attenuatus salamanders”
Mentor: Cheryl Briggs, IB

Hong sik Park, IB “Feature detection in rats”
Mentor: Yang Dan, MCB
Personal transformation:

I am so grateful to be a SURF fellow. In fact, this is the first fellowship I have received. I want to pursue a Ph. D, and this fellowship makes me a more competitive candidate. But most importantly, I learned so much thanks to this program. I learned to write a proposal, to prepare human subjects protocol, to work with mentors, to analyze data, to present at the conference, and what it means to be a full-time researcher. I’ve come to see that research is actually really fun, and I am more confident in my decision in spending 5 years in grad-school.

-Hai
This experience gave me a lot of confidence in myself as an individual. I have always been scared to call myself a scientist, or to believe that I can contribute significantly as a person, but seeing my work develop this summer has changed that perception.

-Neil
Personal transformation:

The financial support made it possible to do my research full time, but the less tangible benefit was the research community that the program as a whole offered me. To work with such talented and committed scholars was an honor and helped to foster my scholarly abilities.

Through the process I was able to develop my academic voice. After my SURF paper was published, I used it as a writing sample for my graduate school applications. I am happy to say that I was accepted to the school of my choice and will work with a professor who is top in my field.

I used my SURF paper to engage with organizations in my field who advocate for people with learning disabilities. As a result, I have been asked to present my research on the topic by various organizations as an educational tool.

- Sonia
Why SURF?

• Opportunity for in-depth exploration of a specialized topic you are passionate about
• Experience working with a faculty mentor
• Graduate School preparation
• Contribute to a body of knowledge
• Get to know other motivated students, professionals, and community members
• Challenge yourself and gain confidence
SURF benefits

• Summer research stipend:
  • SURF/L&S: approx $3,500 + $500 completion stipend
  • SURF/Rose Hills: $5,000 + $1,000 lab funding

• Research Cluster meetings (Orientation in May, weekly cluster meetings throughout summer)

• Significant coaching on your presentation / poster for conference

• Social events with other surfers

• Present at SURF Conference, August 15th and 16th, 2016

• Potential to publish: Social science and humanities students may publish in the SURF conference proceedings journal on escholarship.org
SURF Programs

**SURF Letters and Sciences (SURF L&S) for Juniors**
- Student-initiated research
- Translates into a senior thesis

**SURF Rose Hills Experience (Sophomores and Juniors)**
- Exposure to faculty-initiated research under a UCB or UCSF faculty mentor

**SURF Rose Hills Independent (Juniors & Seniors (graduating May ’16))**
- Develop your independent research project for a thesis / publication
SURF L&S Eligibility...

- College of Letters and Science
- Any major
- Graduating Fall 2016 or Spring 2017 (later grad dates *may* be possible if you are currently a junior and will complete honors thesis by Spring 2017)
- 3.0 or better Berkeley GPA
- Any citizenship status (international, AB540 OK)
- Research will lead to a senior thesis to be evaluated in a graded course taken in the 2016-17 academic year.
SURF Rose Hills Eligibility...

- Eligible major in science, mathematics, or engineering (see next slide and our website surf.berkeley.edu)
- 3.0 or better Berkeley GPA
- U.S. Citizen
- Permanent address is in an eligible Southern Californian County (see next slide)
- A current sophomore, junior, or senior (senior=May ‘16 grad)
- For SURF Rose Hills Independent: For juniors, research will lead to a senior thesis to be evaluated in a graded course; for seniors, research will lead to a draft publication
SURF Rose Hills

Eligible Majors

• Eligible majors:
  • Life Sciences: **Integrative Biology**, Microbial Biology, **Molecular & Cell Biology**, Genetics and Plant Biology, Molecular & Environmental Bio, Earth & Planetary Science, Nutritional Science (Toxicology, Dietetics, Physiology & Metabolism)

• Eligible counties:
  • San Diego, Imperial, Orange, Riverside, Santa Barbara, Ventura, Los Angeles, San Bernardino

Bolded majors denote eligibility for both SURF/L&S and SURF/Rose Hills
SURF Requirements

A. Spring and Summer

- Projects with human subjects: submit human subjects protocol to CPHS by March 14 (vulnerable human subjects) or March 22 (all other projects with human subjects). Your faculty sponsor must also take the CITI course or be “grandfathered” in.

- Attend 2-hour orientation during RRR week in May

- Submit photo and updated project description by June 1

- Devote 8 weeks full-time to your SURF research (no summer school classes longer than six weeks, no internships or employment during that time)

- Attend 4+ mid-summer cluster meetings (can be via Skype)

- Be present in Berkeley at least one week before the conference to practice your presentation.

- Participate in at least 2 conference practice/poster feedback sessions

- Present your research August 15th and 16th, 2016.
SURF Requirements

B. Fall ‘16 and Spring ‘17

• Submit 1-2 page summary of progress and pending tasks, signed by your faculty mentor, by one week after the conference.

• Submit form with thank you to the donors and program evaluation by one week after the conference.

• Complete exit survey in May, 2017.

• SURF L&S and SURF Rose Hills Independent for juniors: enroll in a course/courses during the 2016-2017 academic year that offer graded credit for your SURF project/senior thesis. Submit your thesis upon completion. (Rose Hills Independent Seniors and Rose Hills Experience fellows are not required to enroll in a course following SURF)

• SURF Rose Hills Independent for graduating seniors: Submit publication or publication draft by May 2017, at the latest.
What you need to succeed

A 3-5 page research proposal that is well written and well planned

• Strong backing from a faculty member, including written commitment to guiding your research via a letter of evaluation

• A budget is not required but a brief spending plan may be helpful in cases of large expenses
1. statement of purpose: the big picture
   - what you will do
   - why it is important
   - some info on how you will do it

2. background and justification
   - What knowledge is established in the field already that you are intending to contribute to

3. a project plan
   - concrete information such as research methods, timeline, preparation, personal experience and qualifications

Links for research proposal workshops, proposal guidance documents, and office hour sign-ups with the graduate mentors on the SURF “resources page”
Statement of Research Interest (SURF/Rose Hills Experience)

Elements of a good statement

1. Student interest in project
   - Why choose this topic?
   - Why is this research important?

2. Project tasks and goals
   - What do you plan to accomplish
   - How will you complete these goals
   - Timeline of when you will complete them

3. Preparedness
   - What qualifications do you bring to this project?
   - What prior experiences will help you succeed?

Link for the powerpoint on how to write the statement of research interest on the SURF resources page: Surf.berkeley.edu (utilize your sponsor)
Other Application Materials

- Transcripts in pdf format
- Recommendation letter from your faculty mentor
- Does your research involve human subjects? (If you are conducting any kind of interview, it likely does)
  - Protocol must be turned in to CPHS by March 14, 2016 for vulnerable human subjects, or March 22, 2016 for other, non-vulnerable human subjects.
Faculty Support

- Why is it necessary?
- Strategies for finding a mentor
- Getting a great letter of evaluation
  - not just a “sign-off”
  - needs to be very familiar with your project
- Requirements for mentors
  - regular faculty or lecturers appointed through Fall 2016
  - email and summer guidance
- Attend **Workshop A** as soon as possible to help develop a proposal and find a mentor! See Resources link on SURF website for dates and helpful documents:  surf.berkeley.edu
Summer 2016 Deadline:
February 18, 2016

Questions?
Email us:
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