BUILD RESEARCH COLLABORATORY (BRC)

Summer 2020

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UCSF STC Lead (all 6 years)

BRC Director
Sars-COV2 virus has impacted all of us

We heard from our BUILD scholars how COVID-19 has impacted their communities
Turn anxiety & anger into action

Solution: Data and Coding
Who? BUILD scholars from 4 sites so far

What? 8 week course in bioinformatics coding with near peer facilitation

June 22-August 15

How? Structured near peer mentoring system online
Ten simple rules for creating an inclusive summer program that provides non-CS undergraduates with coding and research experience

Authors
2018 faculty: Rori Rohlf, Nicole Adelstein, Sepideh Modrek, Pleuni Pennings. (All: SFSU)
2018 mentors: Chinomnso Okorie, Jeanice Jones Nyung, Bozhidar Chakalov, Victoria R. Caudill (University of Oregon), Selena Hernandez, Mayra M. Banuelos (Brown University), Francisca Catalan

1. Create mentored teams of students

When working alone, students learning CS often get stuck on technical problems, leading them to feel lost and inadequate. Working in a mentored team, however, they have access to immediate support from their peers or mentor. This helps them learn technical skills more efficiently, develop relationships with each other, and cultivate a shared sense of belonging in computational research (Kephart et al. 2008).
R-coding- Course + Near peer mentoring

• BRC trainees will amass, codify and analyze public data on race/ethnicity and SES status with respect to COVID-19 in the US

• Using big data science tools including R.

• Focus ➔ R course with videos and examples
## Sample Weekly Schedule

<table>
<thead>
<tr>
<th>time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 hour</td>
<td>R course</td>
<td>R course</td>
<td>R course</td>
<td>R course</td>
<td>Weekly assignment due</td>
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<tr>
<td>session</td>
<td>Near peer mentor- facilitator zoom</td>
<td>Near peer mentor- facilitator zoom</td>
<td>Near peer mentor- facilitator zoom</td>
<td>Near peer mentor- facilitator zoom</td>
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<tr>
<td></td>
<td>Additional topic: COVID-19 science</td>
<td>Additional topic: Grad school planning</td>
<td>Additional topic: Population health</td>
<td>Additional time for weekly assignment</td>
<td></td>
</tr>
</tbody>
</table>

**Experts on COVID-19 from UCSF and other universities**

**Topics like making a resume, LinkedIn profile**

**How to reach out to a mentor**

**Learn basics of asking a good research question**

**Survey measures Variables**
Why is it called a collaboratory?

Questions about COVID-19 come from the scholars and their communities. Knowledge translated back to the communities by the scholars.
Interested?

• Contact: Kala Mehta, kala.mehta@ucsf.edu
• Please ping if interested by May 15, 2020
https://sfsu.co1.qualtrics.com/jfe/form/SV_a4AD6oQCxFsXSsZ