PUMAS 2014-23

PROMOTING UNDERREPRESENTED MINORITY ADVANCEMENT IN THE SCIENCES

What is it?

- An nine-week paid biomedical research internship funded by the National Institutes of Health (NIH)
- Gives hands-on lab **experience**, **networking** opportunities with research faculty, and **exposure** to different career paths in science and health
- PUMAS's principal investigators and graduate student/post-doc mentors are committed to building gender and ethnic diversity in STEM/health
- Underrepresented* community college students with intentions to transfer to four-year institutions as STEM majors
- Small cohort (8-12 students) accepted per year

Who is it for?

Who were the participants?



91%were from underrepresented populations*

conduct of

research

3.49 average college GPA



first-generation college students

77%

program from 2014-2023.

There were 70 unique interns in the

\$104,241 median household income (in 2021 dollars)



communication

skills

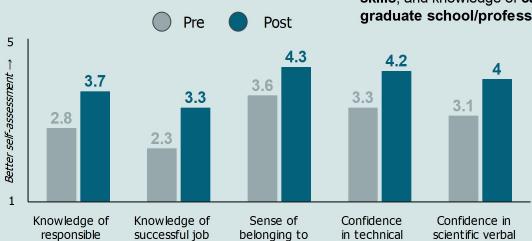


aimed to pursue a
STEM-related degree
at a UC or comparable
institution

99%

Effect of the Program

search tactics



community of

scientists

The 2014-2023 interns increased their sense of belonging as scientists, confidence in their science skills, and knowledge of career readiness and graduate school/professional topics

The 2014-2023 interns increased the average size of their STEM networks from 19 contacts at the start of the program to 42 contacts at the end



^{*} The National Institutes of Health (NIH) considers members of the following populations to be underrepresented or marginalized (URM) in biomedical research: Persons with physical or mental disabilities as per the Americans with Disabilities Act, persons who identify as being from one or more racial and ethnic groupsthat are defined by the National Science Foundation as URM – Black/African American, Hispanic/Latino, American Indian or Alaska Native, Native Hawaiian, and other Pacific Islander – and persons from disadvantaged backgrounds who meet at least two of seven criteria listed by the NIH. See Notice of NIH's Interest in Diversity, Notice #NOT-OD-20-031. 2019. Access via https://grants.nih.gow/grants/guide/notice-files/NOT-OD-20-031.html. Note that Gladstone and the University of California, San Francisco have additionally determined that members of the Filipinx population are URM.

science

skills

Alumni/ae

70 alumni/ae completed the PUMAS program between 2014 and 2023; of the 39 recent alumni/ae (2018-2022), 38% responded to the 2023 followup survey and are represented in the five statistics below.



86% sustained or increased interest in biomedical science

100% STEM-related



intend to pursue careers



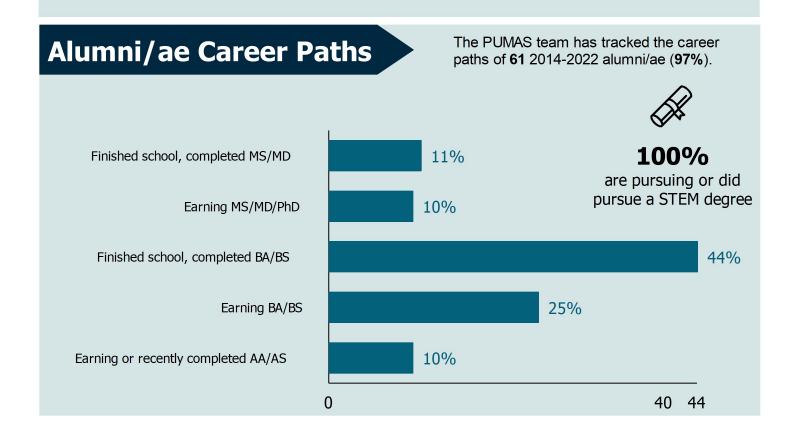
100% completed, attending, or transferring to 4-year institutions (e.g., UC Berkeley, UC Davis)





77% of alumni/ae were in contact with PIs

and/or mentors last year





Founded in 1979, Gladstone Institutes is an independent biomedical research institution with a focus on finding new pathways to cures. Over 350 scientists and trainees work at Gladstone using science and technology in cardiovascular biology, immunology, neuroscience, virology and data science, and stem cell biology to study unsolved diseases. A common belief of the organization is that diversity will bring the best solutions to the world's scientific challenges.



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