

Biological Inquiries



Dr. McElligott's Section of Service Learning - Spring 2021

Our Partners this Semester

LEARN TEACH
TEACH LEARN



ACCESS - 建橋者

American Chinese Christian Educational & Social Services, Inc.

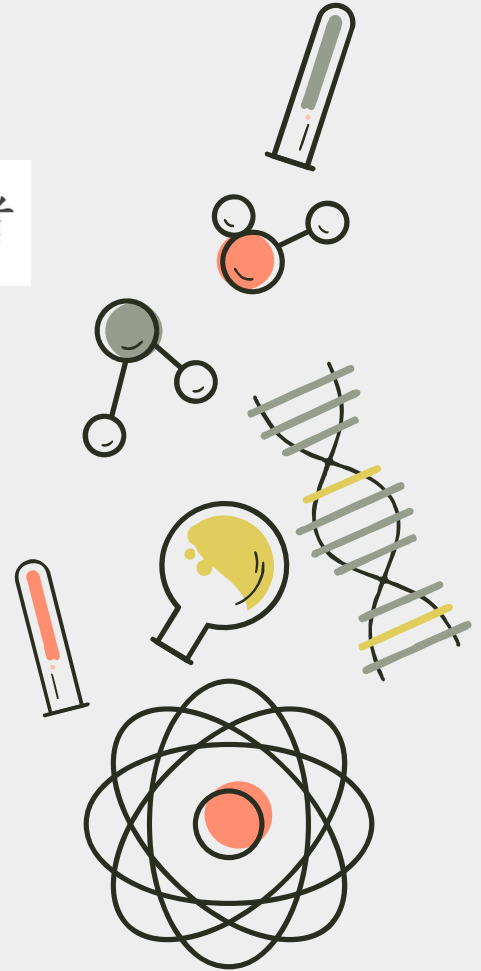
CITIZEN
SCHOOLS



HERNÁNDEZ
AFTER SCHOOL
PROGRAM

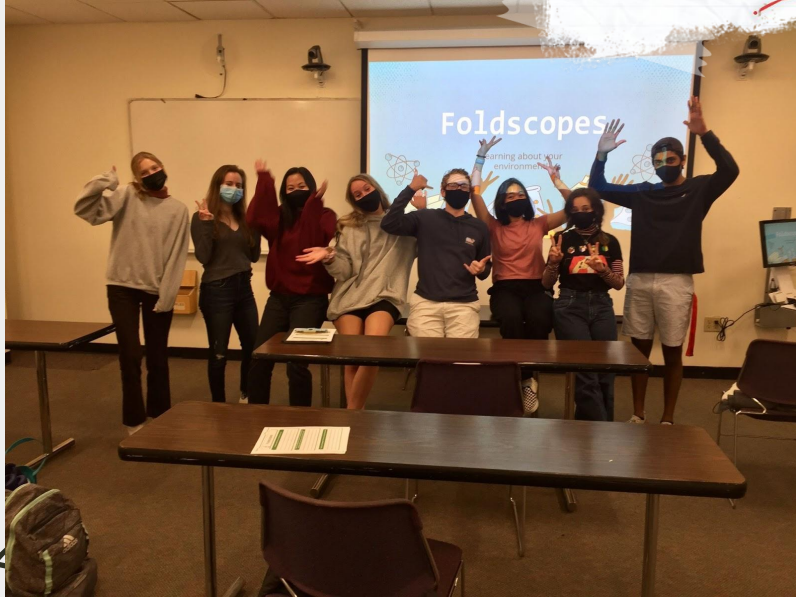


asian women for health






LEARN 2 TEACH TEACH 2 LEARN

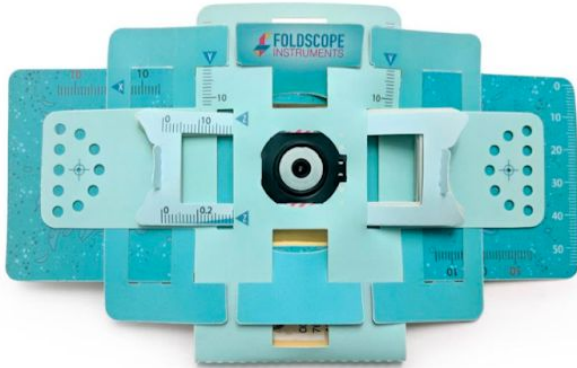


Who: Students served by helping Teen Youth Teachers who need support in the Learn 2 Teach, Teach 2 Learn

What: Created an interesting biology related activity for STEAM camps for 300+ elementary and middle school children

- Developed a 3hr, engaging training session to teach teen educators and provide additional biology background





FOLDSCOPE'S BACKGROUND

- Microscopes can get very expensive
- Thus, Manu Prakash invented a paper microscope, which is accessible to everyone
- It can perform on par with research microscopes with 140X magnification and 2 micron resolution
- Foldscopes breaks the price barrier between people and curiosity!

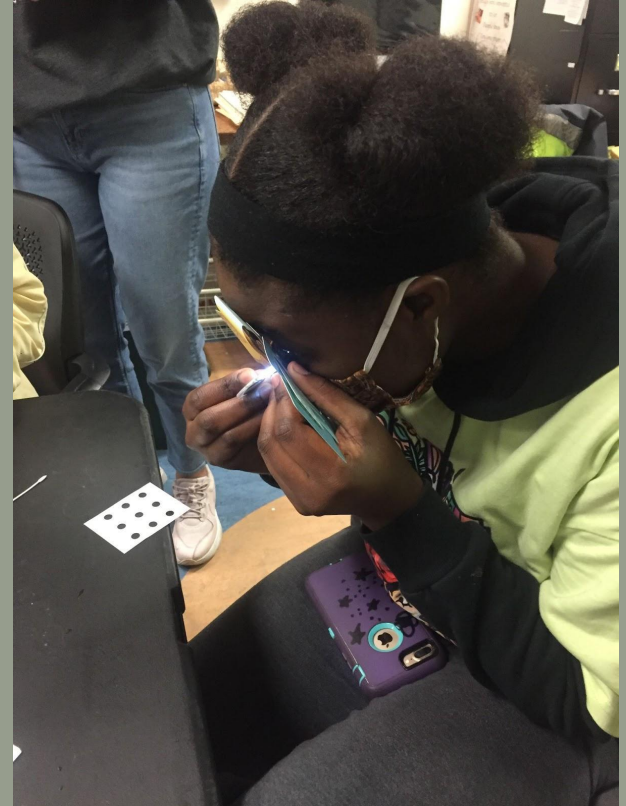
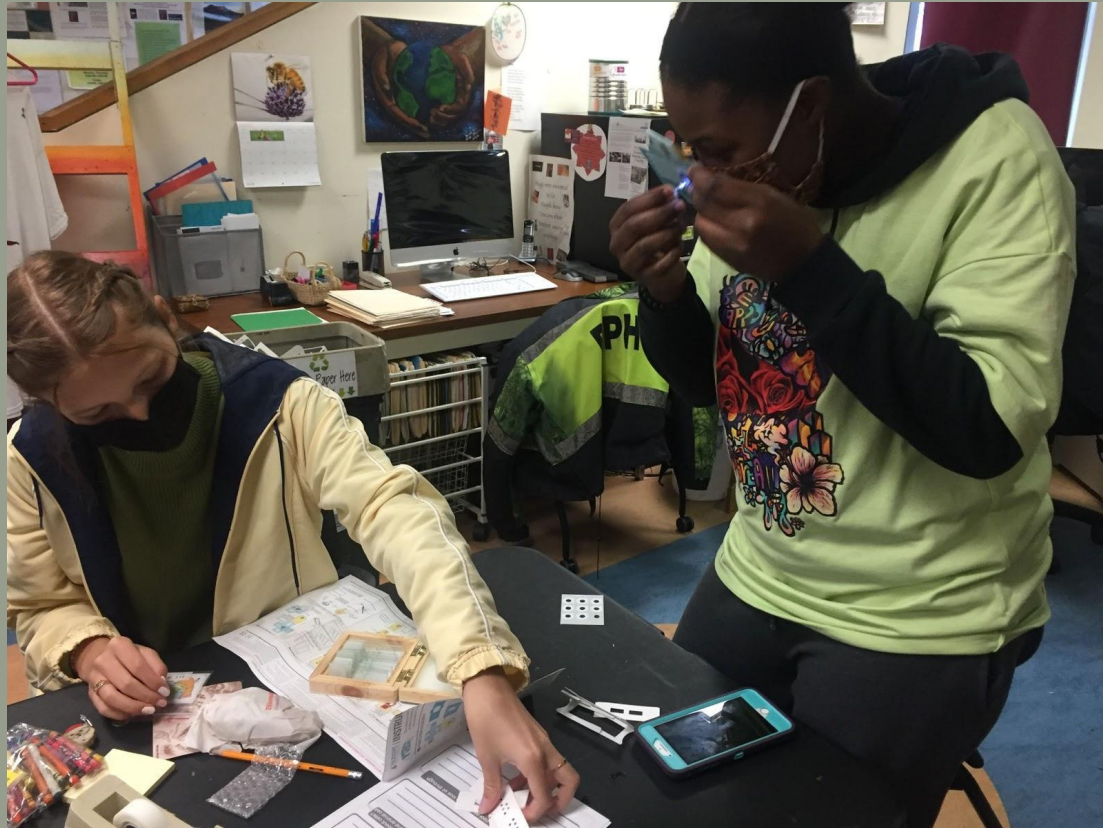




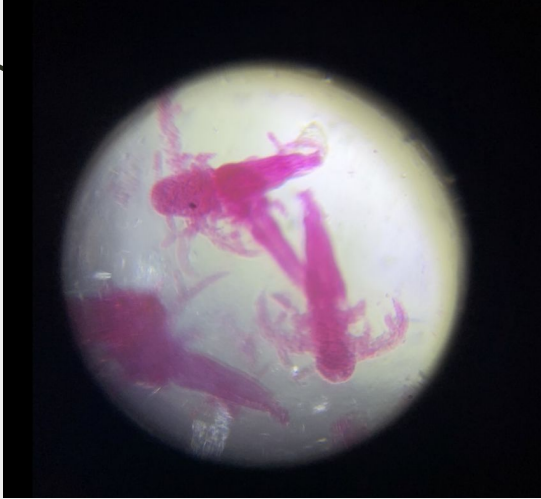
Building Foldscopes



Look Through Foldscopes!



Some of the
results



Water fleas

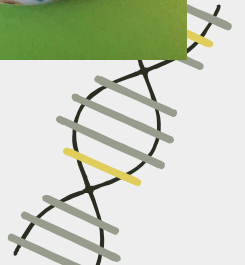
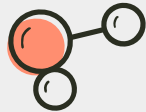
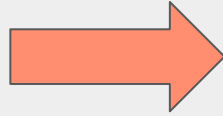


Globe Algae

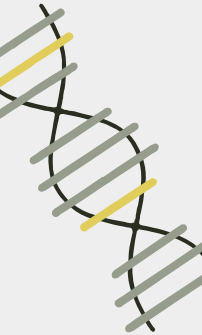
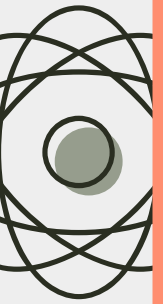
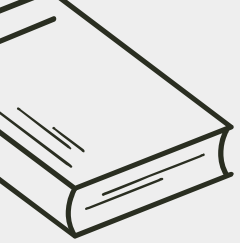


A blade of grass

Stickers
designed to
give children
so they can
tell their
friends &
family what
they learned!



Final Northeastern Student Group Fun Photo!





HERNÁNDEZ AFTER SCHOOL PROGRAM

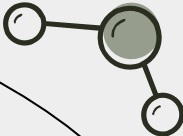
- **What:** Virtual program offering tutoring services to 2nd- 5th graders

- When volunteers aren't tutoring, they contributed to the volunteer resources
 - Games, activities, etc to do when students are done with Homework



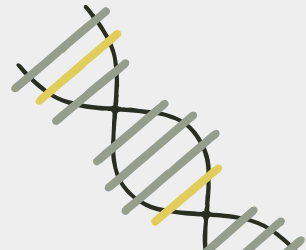
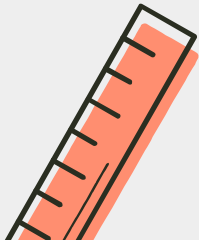
This is where the creative biology lessons come in!!

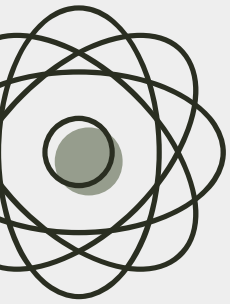




“all of the students absolutely stepped up to the plate. They all exhibited professionalism and resilience while working with students from different backgrounds, age groups and needs! We absolutely would not have been successful without their help with us this semester

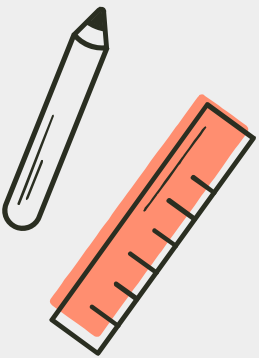
—Kiana Reid, Friends of Hernandez
Liaison





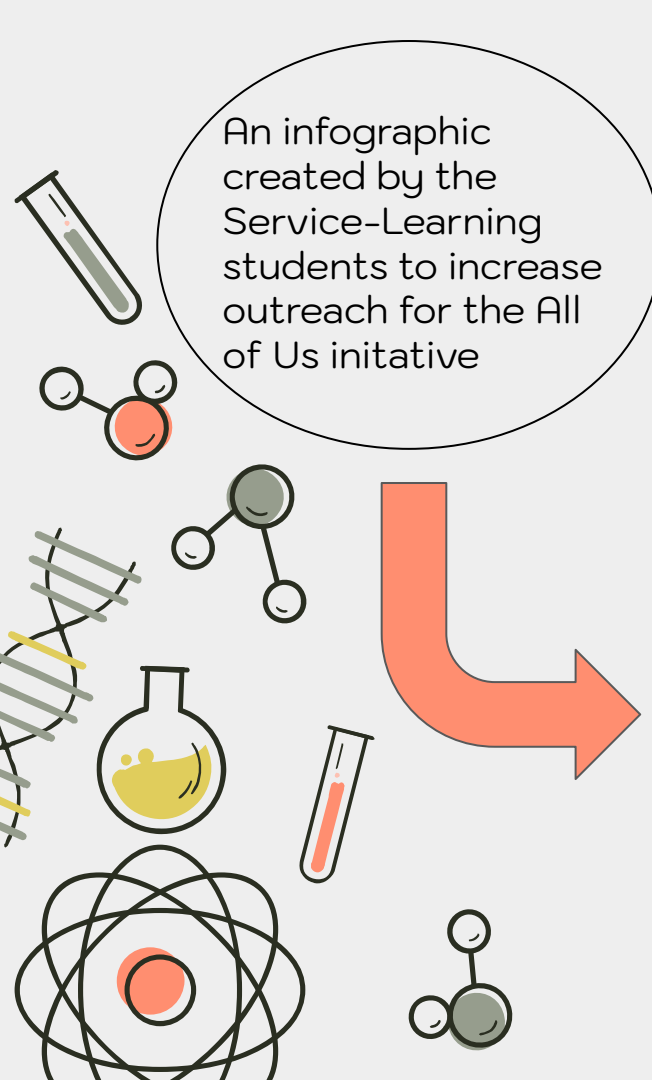
Two initiatives our students were involved in:

1. 1 hour ESL lesson plan to inform asian women about the biology of neurodegenerative disorders such as Alzheimer Disease
2. Advocated for the “All of Us” project
<https://allofus.nih.gov/>.



Mission

- Asian Women for Health aims to improve health literacy for people with limited English proficiencies and connect them to local resources
- They strive to educate, advocate for, and support Asian women, helping women access health information in a timely manner and provide peer support



An infographic created by the Service-Learning students to increase outreach for the All of Us initiative

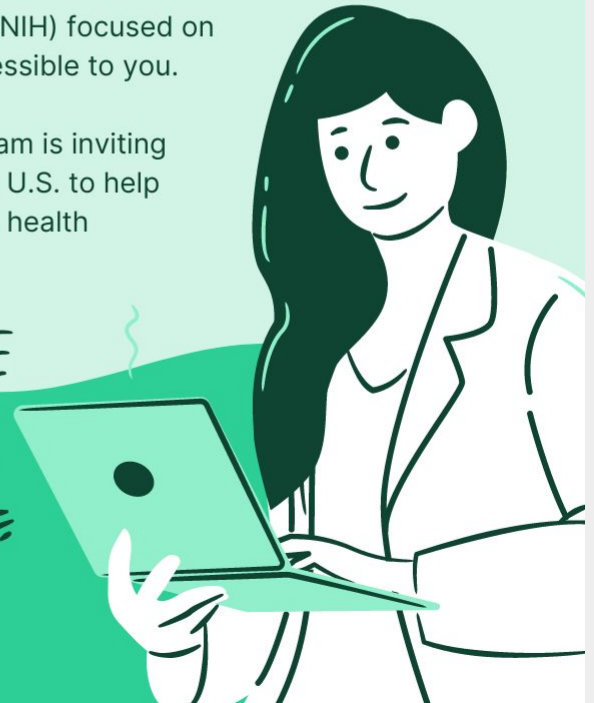
Medical research hasn't always seen you. We're changing that.

All of Us

All of Us is a research program from the National Institutes of Health (NIH) focused on making healthcare more accessible to you.

The *All of Us* Research Program is inviting one million people across the U.S. to help build one of the most diverse health databases in history.

Any questions?
Head to
<https://www.joinallofus.org>
or contact _





ACCESS - 建橋者

American Chinese Christian Educational & Social Services, Inc.

What:

ACCESS is a faith-based non-profit organization that empowers Chinese families in and around Chinatown Boston, with a focus on immigrant communities, bridging cultures and generations with a holistic Christian approach.

- The goal with this service role is to support the current staff in helping to to bridge the enrichment (language, cultural, etc) gap that they see in their students, and interactively get them engaged with science



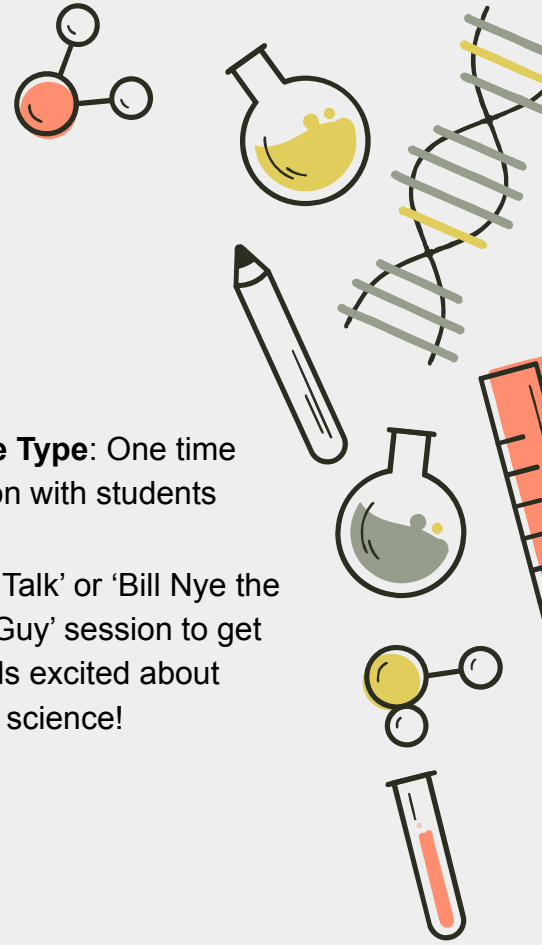


Mission: Citizen Schools is an education organization focused on partnering with the Boston community to connect young people to opportunities that will empower them to succeed.

Our Service-Learning students engage with this community to build connections with young people and excite them about science

Service Type: One time session with students

think 'Ted Talk' or 'Bill Nye the Science Guy' session to get the kids excited about science!



The slide is decorated with various science-related icons. On the left side, there is a DNA double helix, a round-bottom flask with yellow liquid, a test tube with red liquid, a pencil, a graduated cylinder, a round-bottom flask with grey liquid, and a molecular model with yellow and white spheres. On the right side, there is a molecular model with grey and white spheres, a test tube with red liquid, a round-bottom flask with yellow liquid, a DNA double helix, a molecular model with grey and white spheres, a test tube with red liquid, and a molecular model with red and white spheres. At the top right, there is a Bohr-style atomic model with a red nucleus and black electron orbits, and a molecular model with grey and white spheres.

That's all, thanks!

CREDITS: This presentation template was created
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