



HAND at UCLA

2022-2023 Recap & Banquet!



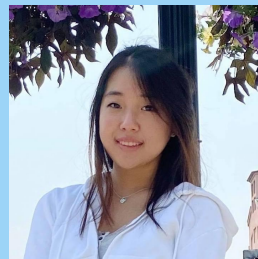
2022-2023 Leadership Team



Tiffany Chen
President



Saumya Tawakley
VP of Operations



Ashley Kim
VP of Outreach



Sasha Anand
VP of Education



Sravya Sankar
Shadowing Director



Daniel Hong
IT Director



Max Orr
IT Director



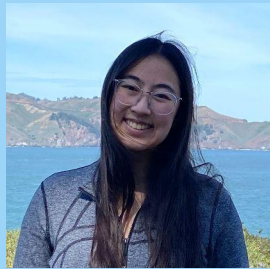
Anubhav Chandla
IT Director



Anna Tong
Webmaster



2022-2023 Leadership Team



Lucy Yin
Finance Director



Clara Kennedy
Education Director



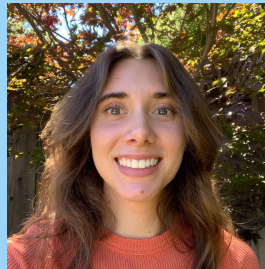
Shruti Kulkarni
Education Director



Ellen Tahmasyan
Outreach Director



Konmal Ali
Outreach Director



Isabel Lozito
Marketing &
Recruitment Director



Allison Peng
Marketing &
Recruitment Director

Board of Advisors



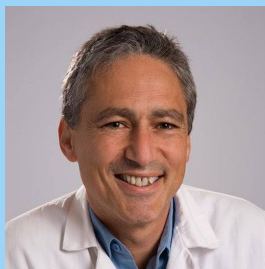
Dr. Marius Castillo
Faculty Advisor



Lee Felsenstein
Engineering Advisor



Dr. Jacqueline Chen
Medical Advisor



Dr. Jeff Bronstein
Medical Advisor



Dr. Ana Luisa Trejos
Engineering Advisor



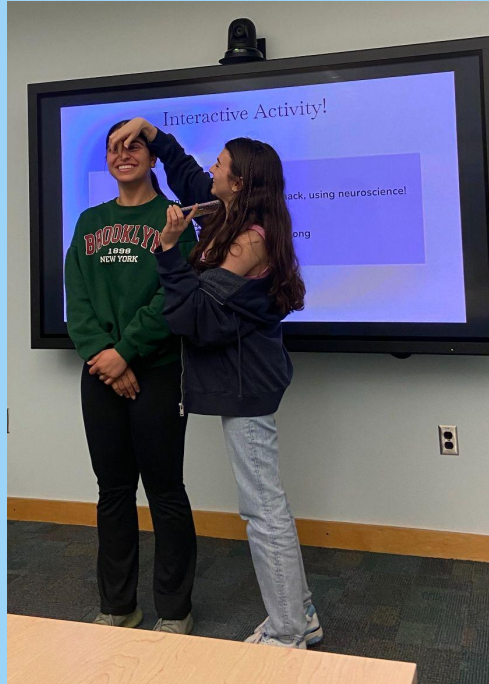
Dr. Martin McKeown
Medical Advisor



EAF!

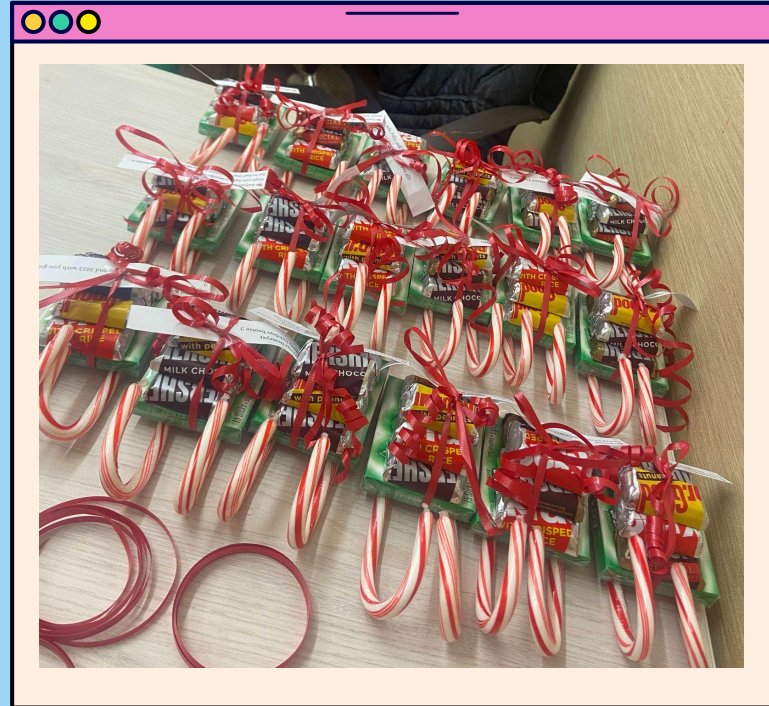


General Meetings

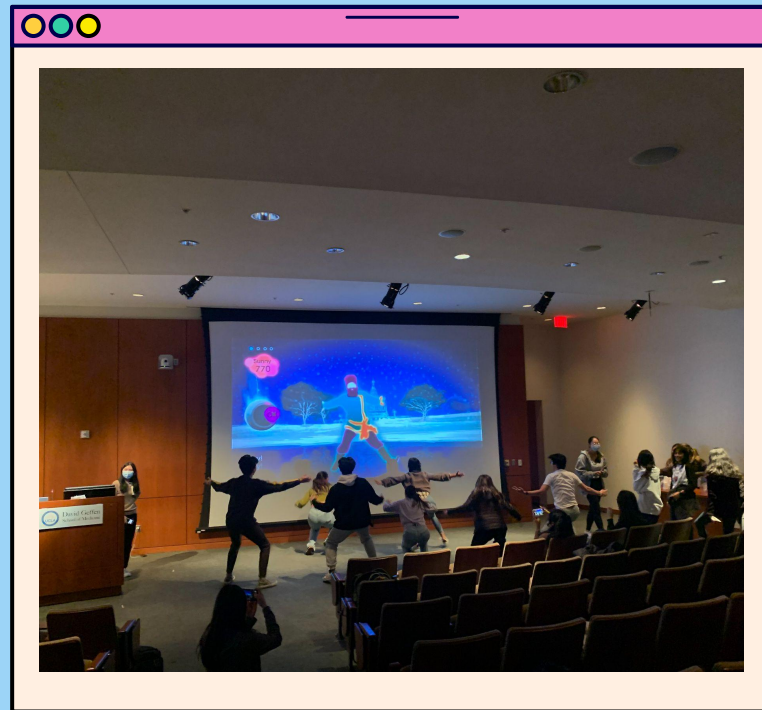
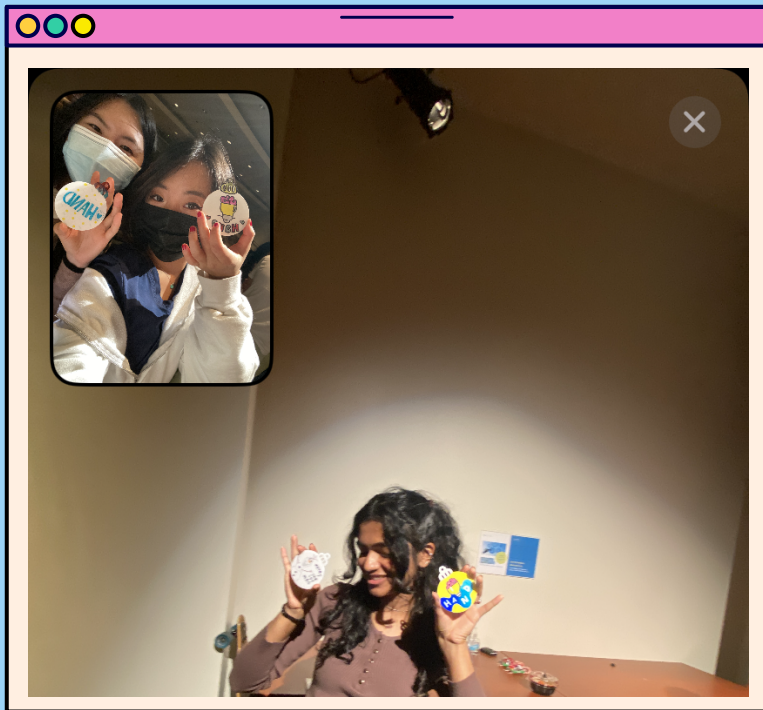




Holiday Gram Fundraiser



Holiday Social





HAND Bonding!

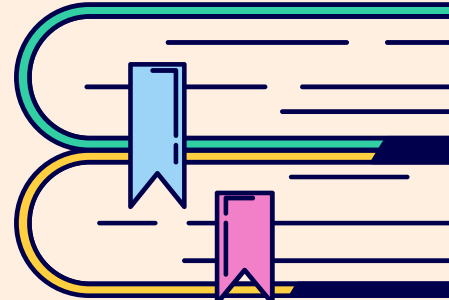
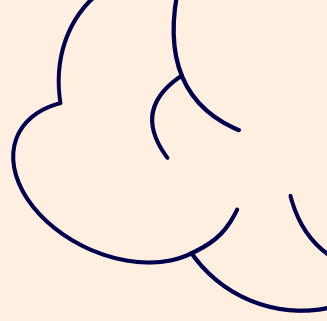


President's Banquet!





Committee Recaps



A large red square with a thin white border, centered on a white background. Inside the square, the words "Education" and "Recap" are written in white serif font, stacked vertically.

Education Recap



- Six guest speakers in various neuroscience sup-disciplines
- Over 80 attendees



Neurodegenerative Disorders Awareness Night (2/16)

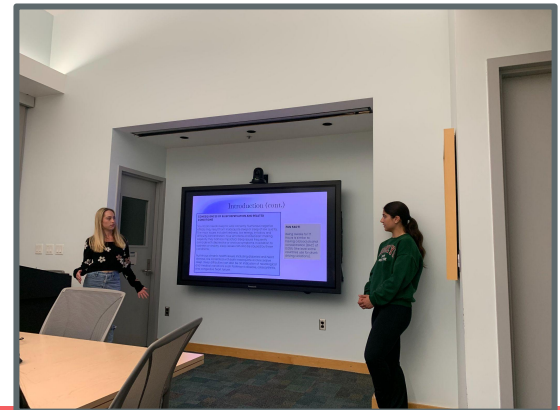
Collaborations with...

- UCLA Health
- Stroke Force
- Mary S. Easton Center for Alzheimer's Research and Care
- PCLA



Seminars and Research

- Created fun and interactive seminars
- Researched novel topics in neuroscience
- Generating informative case studies





DS: PAROPE, Chait, Jean, Melissa, Amanda

#3 lateral geniculate nucleus

Function

- relays information from the retina to the primary visual cortex
- separates inputs from 2 eyes for depth perception
- organizes & prioritizes certain visual information such as color, motion, & spatial frequency

Associated Diseases

- Visual Agnosia
- Prosopagnosia
- Color Dysnomia
- Dyschromatopsia

Fun Facts!

- 3 cell types
 - parvocellular
 - magno cellular
 - konio cellular

A hand-drawn diagram of the lateral geniculate nucleus (LGN) within the brain. It shows the LGN as a central structure with two main lobes, each containing a cluster of red-colored cells. Lines connect these clusters to the optic chiasm and optic nerves, illustrating the visual pathway. The diagram is labeled "Lateral geniculate nucleus".

Current Research

OXDLGN volume reduced after
 2 PDE neuroprotection
 (2012) retinal ganglion cell loss
 (2015) glaucoma leads to atrophy
 of LGN (axonal degeneration)

Podcasts

- Episode 11: The Past, Present, and Future of Alzheimer's Disease Treatment
 - Contacted possible guest speakers, researched and compiled information, and recorded/edited the podcast



Look forward to...

- New podcast episodes over the summer
 - Neurotech, Role of AI in Surgery, and more!
- Advanced clinical case study protocols
 - More research-based and interactive

The background is a light cream color with various colorful abstract shapes and patterns scattered around. These include a pink circle with a grid pattern in the top left, a blue wavy shape in the top right, a yellow circle with a star in the top right, a pink flower-like shape in the middle right, a blue hand-like shape in the bottom left, a yellow cactus-like shape in the bottom left, a blue wavy shape in the bottom right, and a yellow wavy shape in the bottom right. There are also several small orange and blue geometric shapes and patterns.

HAND Outreach **22-23 Recap**

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Fall Quarter

Outreach x IT GM
Advocacy Campaign
Finalized Booklet Project

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Winter Quarter

Centennial High Takeover
Psychiatric Case Studies GM

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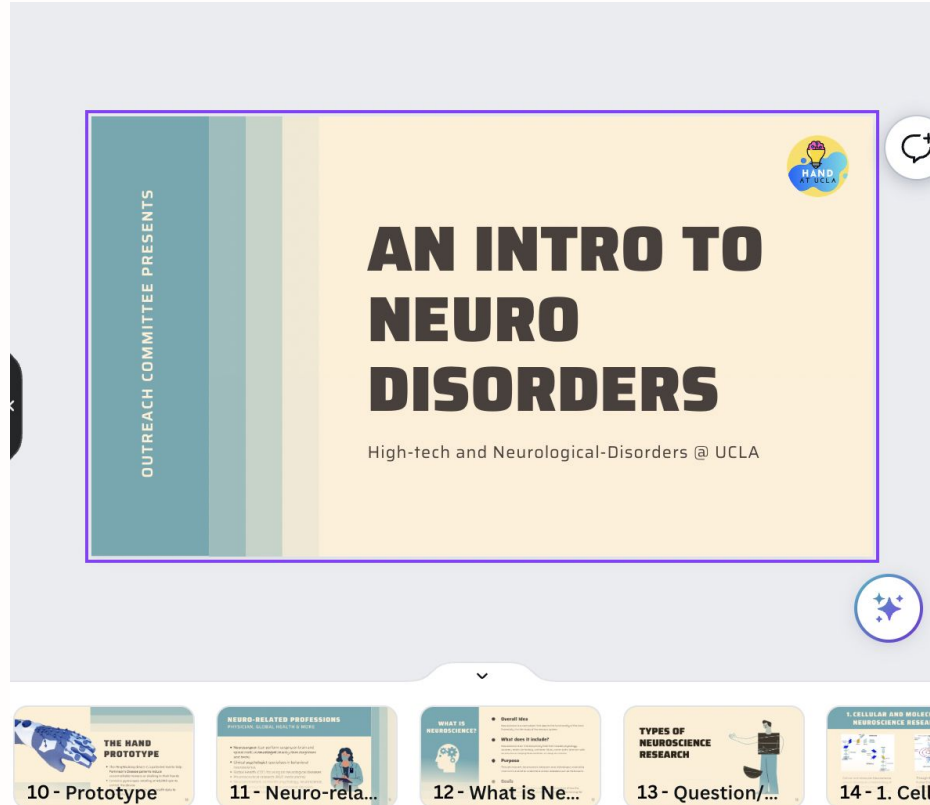
Spring Quarter

Rancho Bernardo HS Takeover
Outreach Fair
BFPC & Interaxon Fairs

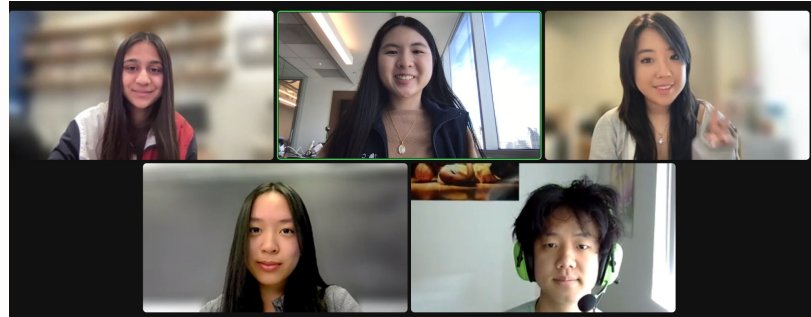
Fall Quarter: Outreach x IT GM



Fall Quarter: Advocacy & Booklet



Winter Quarter: Centennial High

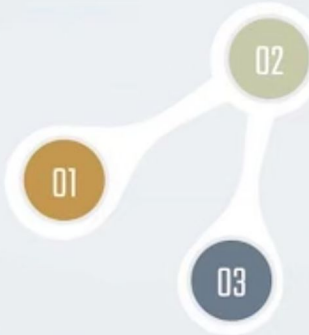


Winter Quarter: GM Takeover



Spring Quarter: Rancho Bernardo High School Workshop

What do we do as an organization?



Awareness
promote awareness and understanding of neurological disorders, such as Parkinson's disease

Learning
build a community interested in neurobiotechnology, and with networks of and opportunities in respective fields

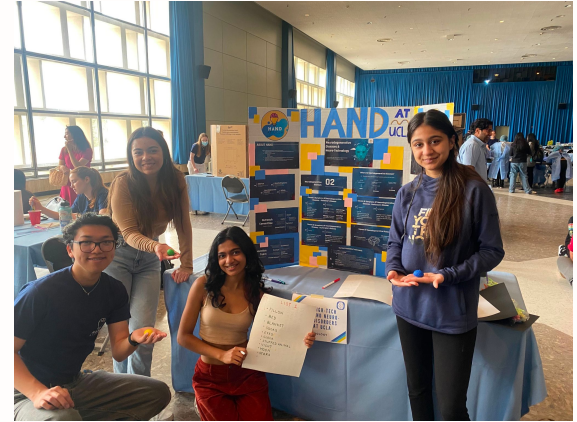
Collaboration
create an innovation combining students in design, and the sciences build patent device to patients with essential tremors

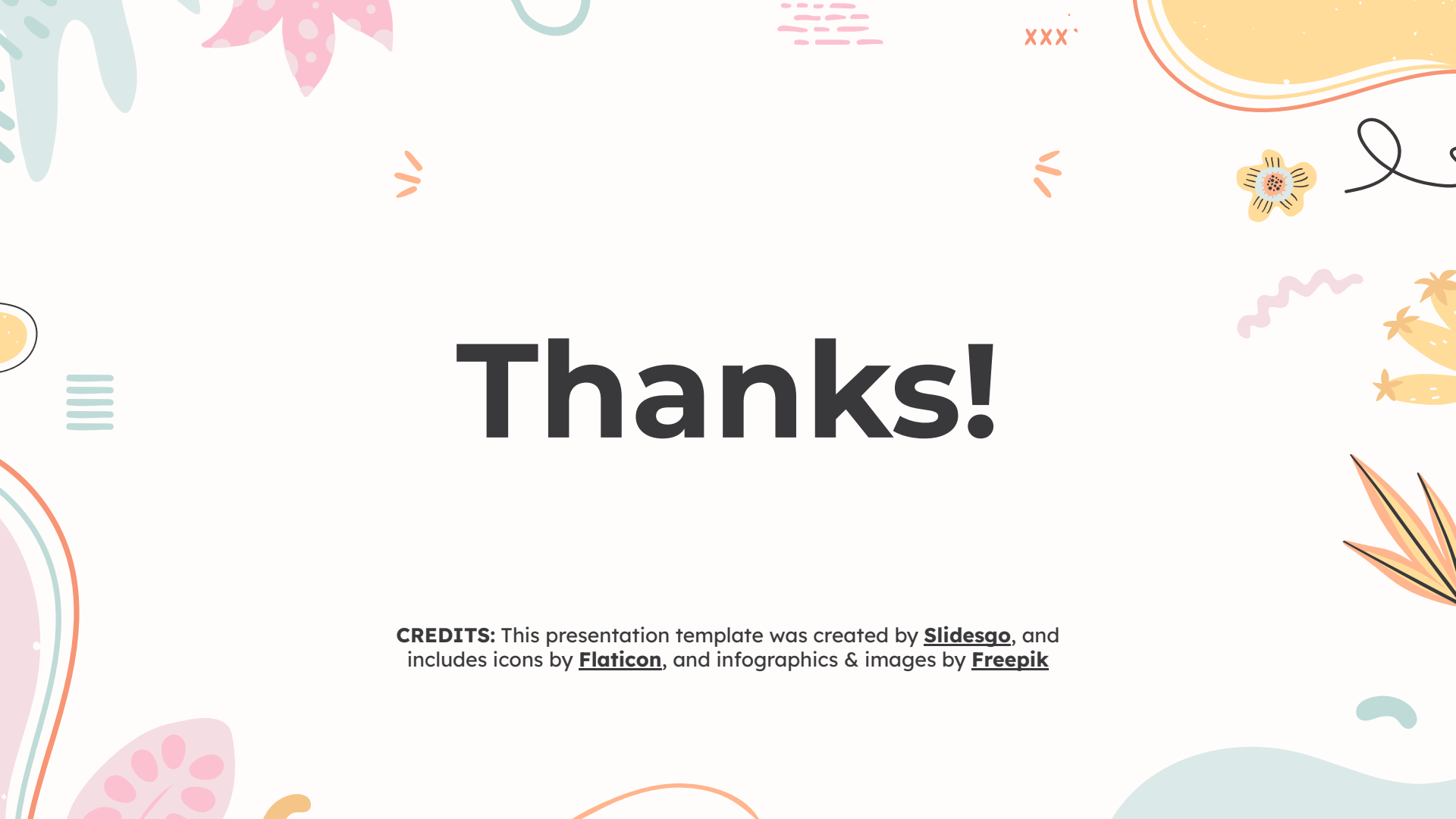


Spring Quarter: STEM Outreach Fair



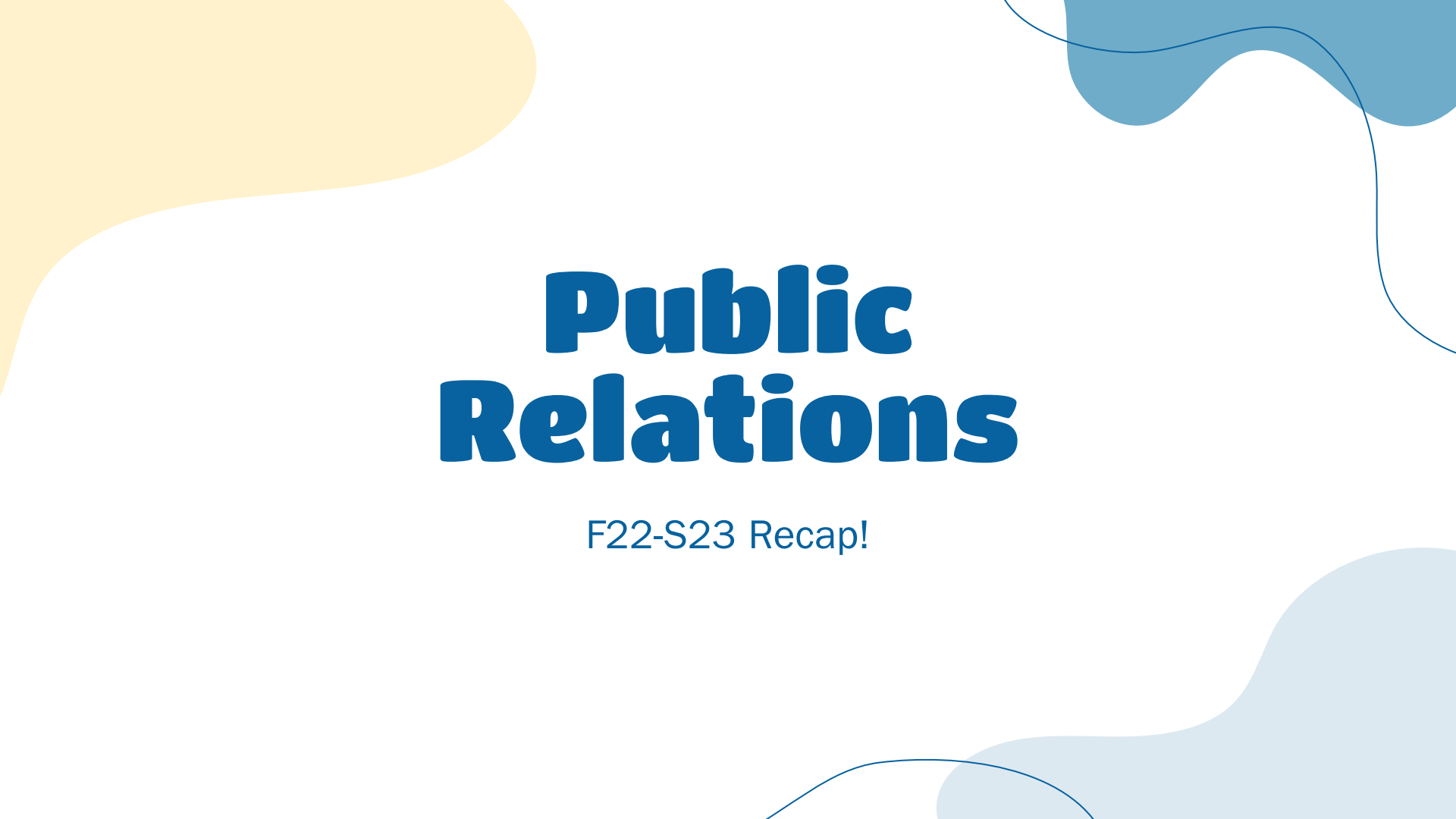
Spring Quarter: BFPC & Interaxon Neuroscience Fair



The background is a light cream color, decorated with various colorful, hand-drawn style elements. In the top left, there are teal and pink floral shapes. The top right features a large yellow wavy shape, a small yellow flower, and a black cursive flourish. The bottom left has a pink leaf-like shape and a teal wavy shape. The bottom right shows a yellow leaf-like shape and a teal wavy shape. Scattered throughout are small orange and pink abstract shapes, including lines and dots.

Thanks!

CREDITS: This presentation template was created by [Slidesgo](#), and includes icons by [Flaticon](#), and infographics & images by [Freepik](#)



Public Relations

F22-S23 Recap!

General & Board Recruitment



HIGH-TECH & NEUROLOGICAL DISORDERS

HAND
FALL 2022
RECRUITMENT



Scan to stay updated during our recruitment cycle!



HAND x BeReal ⚠️

HAND AT UCLA PRESENTS

IT'S TIME TO BEREAL

HELP US RECRUIT NEW BEREAL USERS FROM 10/20-11/3!
ALL MONEY RAISED WILL FUND HAND PROJECTS AND HELP
US RAISE AWARENESS OF NEUROLOGICAL DISORDERS!

STEPS:

1. DOWNLOAD BEREAL
2. ENABLE NOTIFICATIONS
3. ADD AT LEAST 5 FRIENDS
4. POST A BEREAL
5. LOG NEW USERNAMES
ON THE SPREADSHEET



MVP: \$50 GIFTCARD
MV-COMMITTEE: FULLY-FUNDED SOCIAL



BeRe.al/jizzylozi

Socials & Fundraisers



Graphics





**Thank You PR
Team!**

Innovation Team 2022 - 2023





Team Updates

Accelerometer

- **Had great progress this quarter!**
- **Developed accelerometer data visualization**
- **Finalized next steps for data collection**

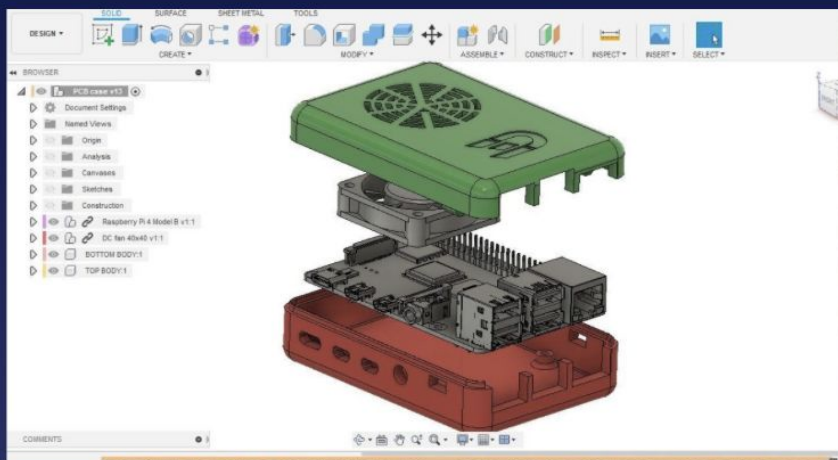
Gyroscope/Glove Design

- **Gyroscope and Glove design combined teams**
- **3D printed an enclosure for the accelerometer**
- **Working on creating a glove prototype**

Next Steps

- **Creating a prototype to show functioning accelerometer**
- **Optimizing Glove Design!**

Gyroscope/Glove Design Team



IT Socials!



You're off to great places,
Today is your day!
Your mountain is waiting,
So... get on your way!

Dr. Seuss

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Illustrated by Robert McCloskey



HAND
AT UCLA