#.A.N.D.

HIGH-TECH AND NEUROLOGICAL-DISORDERS FALL 2020 QUARTER RECAP



Educating, Empowering, Promoting, Innovating

This Fall quarter, our team:

- Heard from brilliant **speakers** Dr. Yang & Dr. Bronstein
- Analyzed and discussed **research** on Neurological disorders
- Prepared for **podcasts** with leaders in science
- Created educational **Instagram** stories, blogs, and infographics
- Developed **curriculum** to increase scientific literacy and promote science exploration to young students
- Examined the **iStopShaking** patent and Parkinson's research in preparation for prototype development



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Innovation Team Director (Engineering)



Jane Burgan

Innovation Team Director (Research)





Education

SEMINARH & RESEARCH

Hosting journal club discussions to prepare for guest speakers.

Chose research papers pertaining to each week's topic, prepared questions for discussion and guest speakers, and formulated an efficient structure for journal club meetings.



SOCIAL MEDIA & NEWSLETTERS

Divide and Conquer! Everyone split up responsibilities to ensure everything was completed.

Created infographics concerning neurological disorders individuals are confronted with daily. Produced informative Instagram stories with either supplemental information on the topic of the week or fun quizzes to test your knowledge.



PODCASTS

Focused on supporting UCLA artists.

Had multiple mini segments starring different H.A.N.D members conversing about neurological disorders and initiatives. Included first-hand accounts of individuals suffering from these disorders.





Outreach

AWARENESS CAMPAIGN TEAM

Spreading awareness through aesthetically pleasing infographics.

So far, the Awareness Campaign Team has covered the National Epilepsy Awareness month (NEAM) and educated peers on epilepsy symptoms and seizure first aid. This is just one of their many campaigns to come!

Gut-Brain Link By Giorgio Conta and Justin Quan December 6th, 2020

If you've over field butterfies in your stomach when you foot nenvous, you may not how it, but these signals are coming from what some refer to as your second basin. These exists and more network of neurons to your gut that are index within the walks of your digetive instat, and these neurons have a more guidence any our mode, emission of the source of the source of neurons to your gut that are index within the walks of your digetive instat, and these neurons have a more guidence on your mode, emission of neurons in the source of the source o

> By Max Orr, Alex Wu, and Daniel Hong December 6th, 2020

Spinal Cord Stimulation Overview

What is Spraid Cord Simulation SECSP SSS is a means of alleviating chronic pain in patients by simulating spraid cord newror Beers. These detections and patients the simulation spraid cord newror Beers. These detections are not sprain in the simulation sprain sprain structure and the simulation sprain sprain structure and the simulation sprain sprain sprain structure and the simulation sprain sprain structure and sprain sprain structure and sprain sprain structure and sprain spra

HIGH SCHOOL PROGRAM TEAM

Encouraging students to explore applications of technology and science.

The High School Program Team has been developing a curriculum for elementary to high school students to increase literacy about science and neurotechnology. Lessons plans involve adapting to remote learning and incorporating engaging virtual activities.



EVENTS TEAM

Curating weekly blog posts and researching potential guest speakers.

Recent blog posts covered the Gut-Brain Link and Spinal Cord Stimulation, providing detailed overview on the subjects for students interested in learning more. <u>Click here to read recent</u> <u>blogs</u>!





Public Relations

MEETING RECAPS

Creation of weekly recap Instagram posts

The meeting recap subcommittee utilized Canva to design weekly meeting recap posts (posted on our Instagram). They also summarized the main points made by Neurological disorder specialists.





SPOTLIGHTS

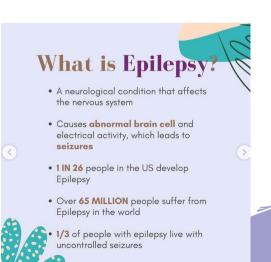
Creation of member spotlights.

The spotlights subcommittee created templates, questions, and information to include in member spotlight posts. They also interviewed and posted about club directors.

OUTREACH & EDUCATION

Finalizing instagram post designs.

The outreach and education subcommittee worked closely with the outreach and education teams to review and finalize their instagram posts. This quarter, the major projects have been "Epilepsy Awareness" and "6 Steps for Seizure First Aid".





Innovation Team

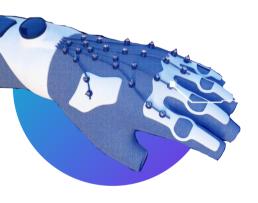
RESEARCH

Future directions and development.

We read and discussed five scientific articles related to Parkinson's Disease diagnosis and treatment. Some articles were very challenging and dense, but members persevered and developed valuable journalreading skills!

ABSTRACT

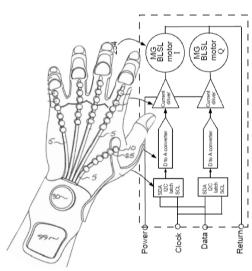
Similarities in physiological and psychological Essential Tremor make accurate diagnosis of thes a smartphone-based application that uses discre machines to discriminate between Parkinson's 96% or accuracy. We have demonstrated that efficiently discriminate between these two diso uses the influence of attention and distraction re are significant differences i



ENGINEERING

The science behind the patent.

We analyzed the iStopShaking patent, synthesizing findings from scientific articles with the design and created documents with suggestions and innovative features for the device.



2021 PROSPECTS

Winter quarter plans.

We plan on working on project proposals, workshops for technical information, multiple advisor meetings, and presenting at the HAND Demo Day! Looking forward!



Awards



EDUCATION

Clara Kennedy Social Media/Newsletters

Ellen Tahmasyan Seminars/Research

Hugo Greenhill Podcasts

OUTREACH

Robin Zhao Awareness Campaign

Daniel Hong Events Team

Jeffrey Yang Highschool Program Team

PUBLIC RELATIONS

Lexi Kwon Spotlights

Join Us Contact

INNOVATION TEAM

Christen Gerhart, Alex Wu, Max Orr, Giorgio Conta

These club members showed diligence, perfect attendance, and initiative throughout the quarter.

To all of HAND: thank you for a wonderful first quarter! Wishing you a Happy Holiday & Happy New Year!

– HAND Leadership



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