

PORT-
FO-
LIO

GAYEON JI

ARTIST.

RESEARCHER.

LEARNING DESIGNER.

SELECTED WORKS | 2021

HELLO! I'M GAYEON

The definition of art to me has changed over time - from a craft project in elementary school that still hangs in my parents' room to my haven.

Having English as a second language, I often faced an invisible wall when I attempted to express myself. However, practicing art has taught me to utilize creativity more effectively as a daily communication tool without having to worry about misusing a word. Art has given me a voice that I never had before, beyond the boundaries of language, geography, and generations.

Borrowing the words of Terry Barret, "Any single work of art can engender multiple meanings. No single meaning is the right meaning - even the artist's intended meaning." It is the endless possibility of art - freedom of ideas, expression, and actions - that continues to attract me to art. My artwork acts as a platform to discuss social, political, and cultural ideas with no correct answers. Although there may not always be material similarities between the different projects, they are linked by recurring concerns. The context and subject matter determine the mediums and presentation of the piece.

The following pages include selected works and experiences relevant to my research interests in Arts in Education, STEAM, Collaborative Learning, Technology and Equity.

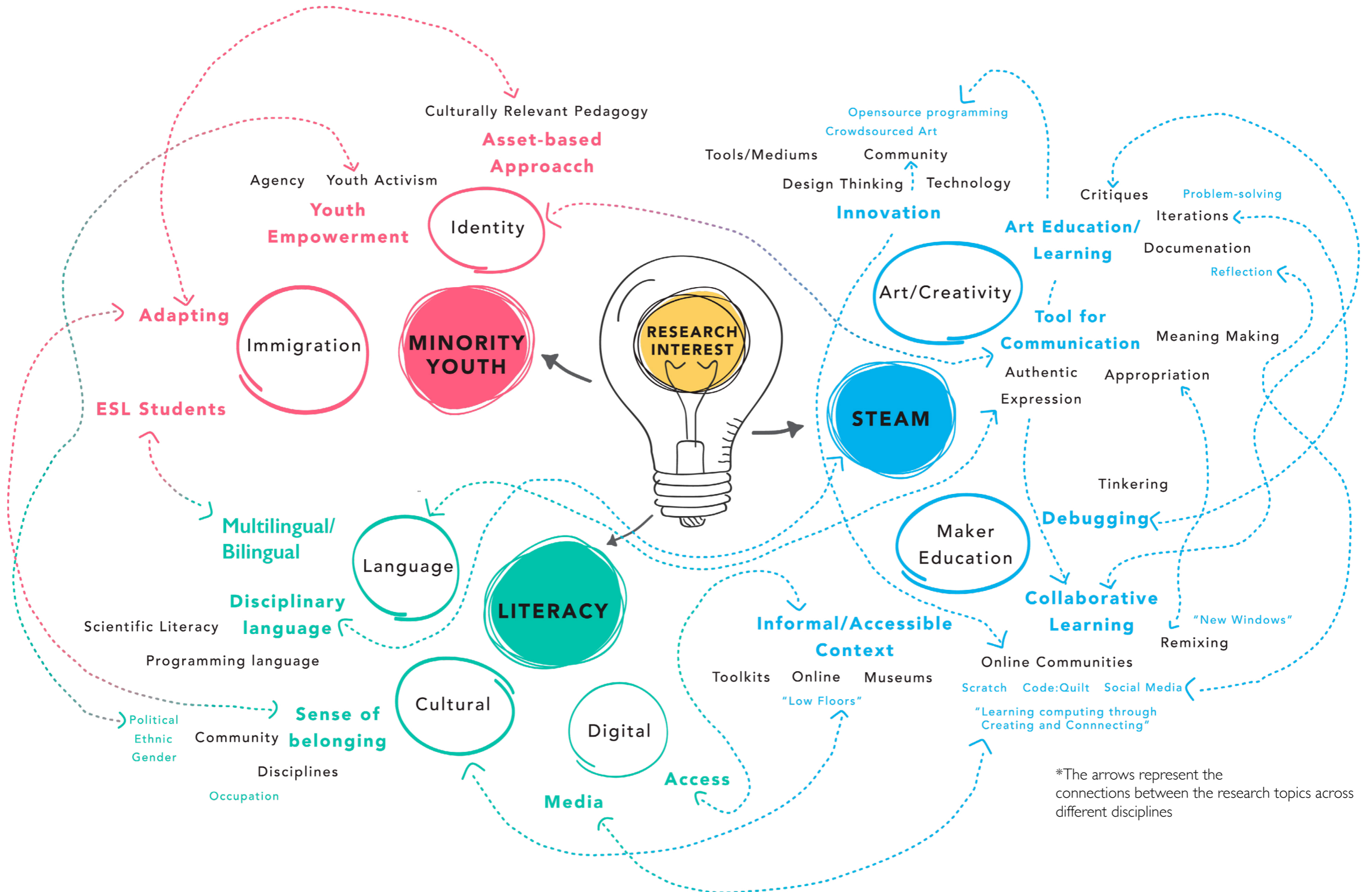
Thank you and Enjoy!

gayeon2tina@gmail.com

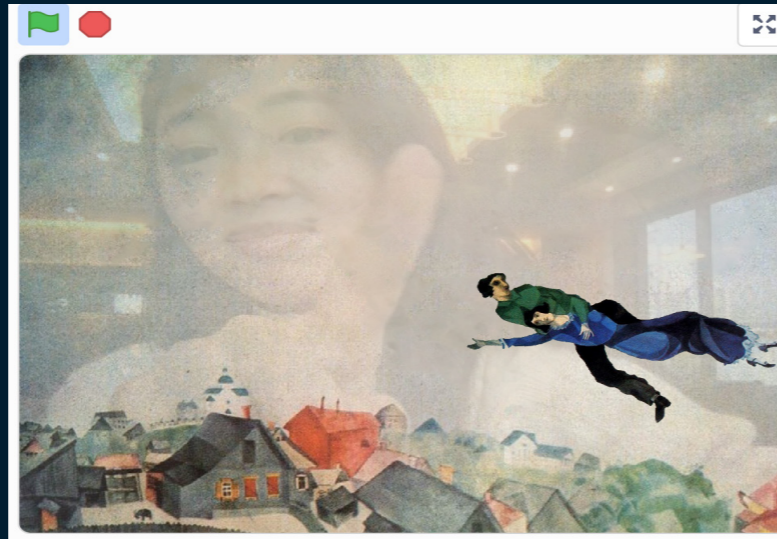
www.gayeonji.com

ARTIST.
RESEARCHER.
LEARNING DESIGNER.

RESEARCH INTEREST MIND MAP

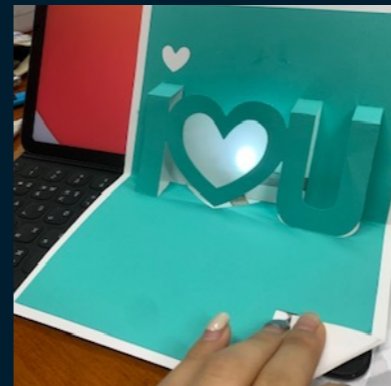


i'm always creating + learning something



INTERACTIVE SCRATCH PROJECT:
MARC CHAGALL'S FLYING LOVERS

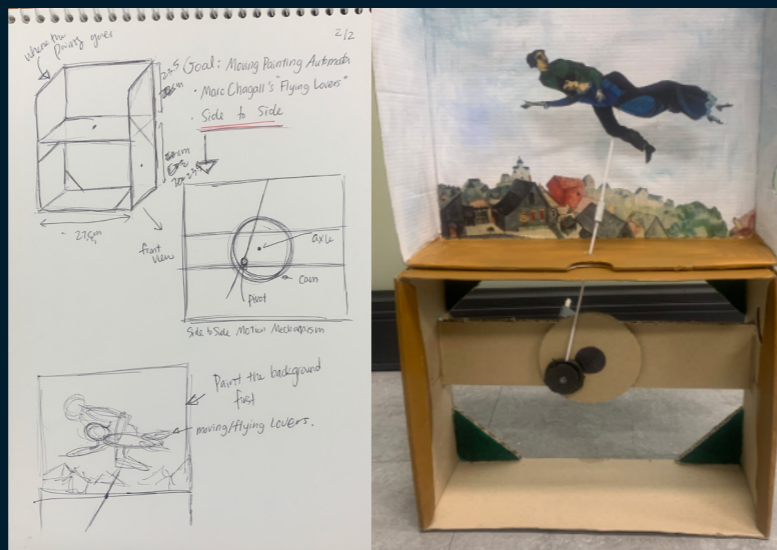
[HTTPS://SCRATCH.MIT.EDU/PROJECTS/514779722/](https://scratch.mit.edu/projects/514779722/)



I U PAPER CIRCUIT CARD



3D MODELING/PRINTING
THE MUSHROOM MAN



CARDBOARD AUTOMATA
MARC CHAGALL'S FLYING LOVERS PT.II



CLASSIC LABYRINTH : AT APGUJEONG 4TH EXIT



BEYOND THE MASK (COLLEGE STUDENT
DEPRESSION AWARENESS)

#MYCOVID-19 STORY WITH DIY 3D HOLOGRAM!

EDUC508 - MAKER STUDIO FINAL PROJECT (WITH LIQIAN YU) | MAY 2021

3-STEP GUIDE TO CREATE YOUR OWN 3D HOLOGRAM AT HOME

Are you ready to feel like you are in a Sci-Fi or Avengers movie? With this **simple & easy DIY 3D Hologram**, you can at home! Now, Let's start making!

WHAT IS A HOLOGRAM?

Before we travel to the future, let's take a quick trip to the past, so that we can find out what a hologram is and ask ourselves, "what does 'holographic' mean exactly?" The term "hologram" was coined by Dennis Gabor in 1949, a Hungarian-born British electrical engineer and physicist.

Now, what's a hologram? You have probably seen a hologram this week (if not today). That's right, Holograms are all around us. Credit cards or barcodes on the back of your chips are perfect examples.

3D Hologram, which we are going to make today, is one type of hologram. A 3D hologram is defined as a 3D projection that exists freely in space and is visible to everyone without the need for 3D glasses.

Resource: "How Does Holographic Projection Work?" <https://hologram.com/How-Does-Holographic-Projection-Work.html>

NOW LET'S TRY IT!

Gather these materials for building your 3D hologram.

1. A screen to project on - could be your smartphone, a tablet, a laptop, or even a TV
2. Powerpoint or Google Slides
3. A piece of plastic sheeting (about 0.5mm thick).
* Alternatives: plastic CD Case, Plastic Bottle, Leftover clean packaging
4. Cutter with a good blade or scissor
5. Ruler or AR Ruler App
6. Suction cup or Tape
7. Pencil or Pen
8. Cutting mat (optional)



STEP 1 MAKE A 3D HOLOGRAM PYRAMID (APPROXIMATELY 15 MIN)

Scan these QR codes for Demo videos!



How To Make 3D Hologram - No Glasses



How To Make a 3D Hologram from a Coca Cola bottle

1. Draw or print your pentagon template

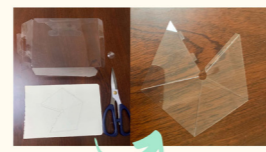
Measure the size based on your screen. If you cannot find ruler, you also can use AR Ruler app!

For more precise size please check: <https://www.instructables.com/Turn-cell-phone-and-tablet-in-3D-hologram/>




2. Cut and make your pyramid

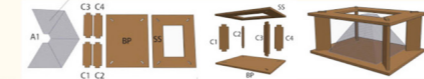
Cut the plastic package (or CD case, flattened plastic bottles) according to your template.



3. Install your pyramid

Fold the pyramid, pinch the suction cup and slide it clockwise into the bottom of the pyramid (Tip: )

*optional choice: you can also use cardboard to make a screen holder

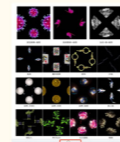


STEP 2 TRY OUT YOUR HOLOGRAM PYRAMID

Place your pyramid on top of the device of your choice and play a hologram video! Feel free to use the resources of various hologram videos made by others below to try out your pyramid!

Hologram video archive: <https://vimeo.com/archivesh.com/m-waixin>

Links to some Youtube videos: https://www.youtube.com/results?search_query=hologram+video



Source: Hologram Project by Kise

STEP 3 TELL YOUR COVID19 STORY WITH 3D HOLOGRAM (APPROXIMATELY 30MIN)

Once your pyramid is working, it's time to bring your own story and imagine into life! *All you need is your phone and access to Powerpoint/Google Slides.

1. Write your COVID19 story

Let the world hear about YOUR own experience of this COVID-19 pandemic. Over the past weeks, maybe months, you have been taking action and developing many creative ideas to face these challenging times, whether by helping your community, finding innovative learning ways, keeping a positive spirit, taking care of your relatives and loved ones, and much much more. (Source: MY COVID-19 STORY #YOUTHOFUNESCO)

On a piece of paper, write the Covid19 & You: In one word...

- 1) What makes you feel better?
- 2) What makes you feel worried?
- 3) What are you grateful for?
- 4) First thing you'll do once the pandemic is over?

Share your favorite memes, gifs, jokes, songs, videos that positivity or a smile to your face during the crisis!

Example: "Adopting a plant pet during the pandemic has brought me so much joy and calmness. Seeing the plant grow each day gave me a sense of responsibility and purpose"

2. Make your covid19 story video!

Experiment with different ways of telling your Covid story.



Scan this QR codes for How to make Hologram Selfie Video Demo (3:35 - 4:28)

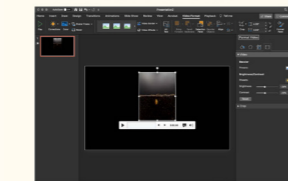
Or you can try to make a timelapse video of your Covid Plant Pet!



For the following steps, please refer to <https://www.youtube.com/watch?v=BSGDJei2vEU> for demonstration!

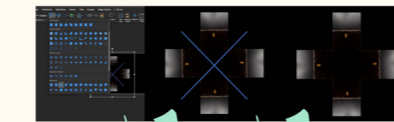
3. Insert and edit your video in Powerpoint

Time frame in the Demo video: 4:30-6:22



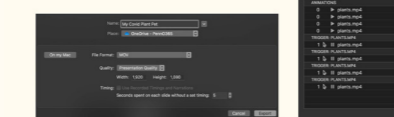
4. Using the multiply sign as a guide, duplicate the edited video.

Time frame in the Demo video: 6:23-9:06
Tip: Make sure the top video's orientation is the way you want your hologram to be seen. Also, make sure to delete the "X" after you place all four videos.



5. Sync all videos to start at the same time and export it

Time frame in the Demo video: 9:10 - 14:00



SHARING IS CARING

Well done! Because sharing is caring, we invite you to further amplify your voice by sharing your story!

This storytelling initiative was inspired by UNESCO's response to the COVID-19 pandemic. It is meant to put the spotlight on young people - how they feel, how they act, how they thrive during these challenging times. Curious about this campaign? Learn more [here!](#)



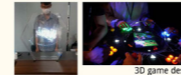
Example: "My Covid Pet Paper" [Click here for the video!](#)

Share your video by using the hashtag #MyCovid19Story on social Media! or submit your story to be featured on [UNESCO's website!](#)

TAKE IT FURTHER!



How To Make a 3D Hologram (TV Size)



Fan LED 3D Hologram Boxes

When we think of mixed reality, our first impression is often associated with avant-garde, expensive gadgets like VR headsets, etc. However, we can use daily accessible tools, even wastes, to transform our smartphone screen into a 3D interactive movie theater.

Liqian and I designed an interdisciplinary making activity: a 1-hour home-based DIY 3D Hologram project to stimulate students' curiosity and learning motivations in STEM, storytelling, digital media design, and filmmaking. This project is designed to provide access to seemingly complex 3D holographic technology with a simple and easy DIY 3D Hologram tool at the ease of participants' homes. While one can easily find DIY 3D hologram projects or pre-made kits online, we have noticed that existing online resources do not provide many opportunities for participants to incorporate personal experiences or share with other makers. Thus, we decided to remix existing DIY 3D Hologram projects by adding elements of storytelling and sharing.

Makers of this project are able to access our 3-step guide that is designed to scaffold users aged 12 or above to construct a 3D Hologram Pyramid, test their pyramid using others' hologram videos available online, create their own 3D Hologram videos using accessible video editing tools such as Powerpoint or Google Slides and share with online communities.

Link to our step-by-step guide pdf:

<https://tinyurl.com/Storytellingwith3Dhologram>

#makermovement #DIY #remixing #upcycling #storytelling #access #informallearning #filmmaking

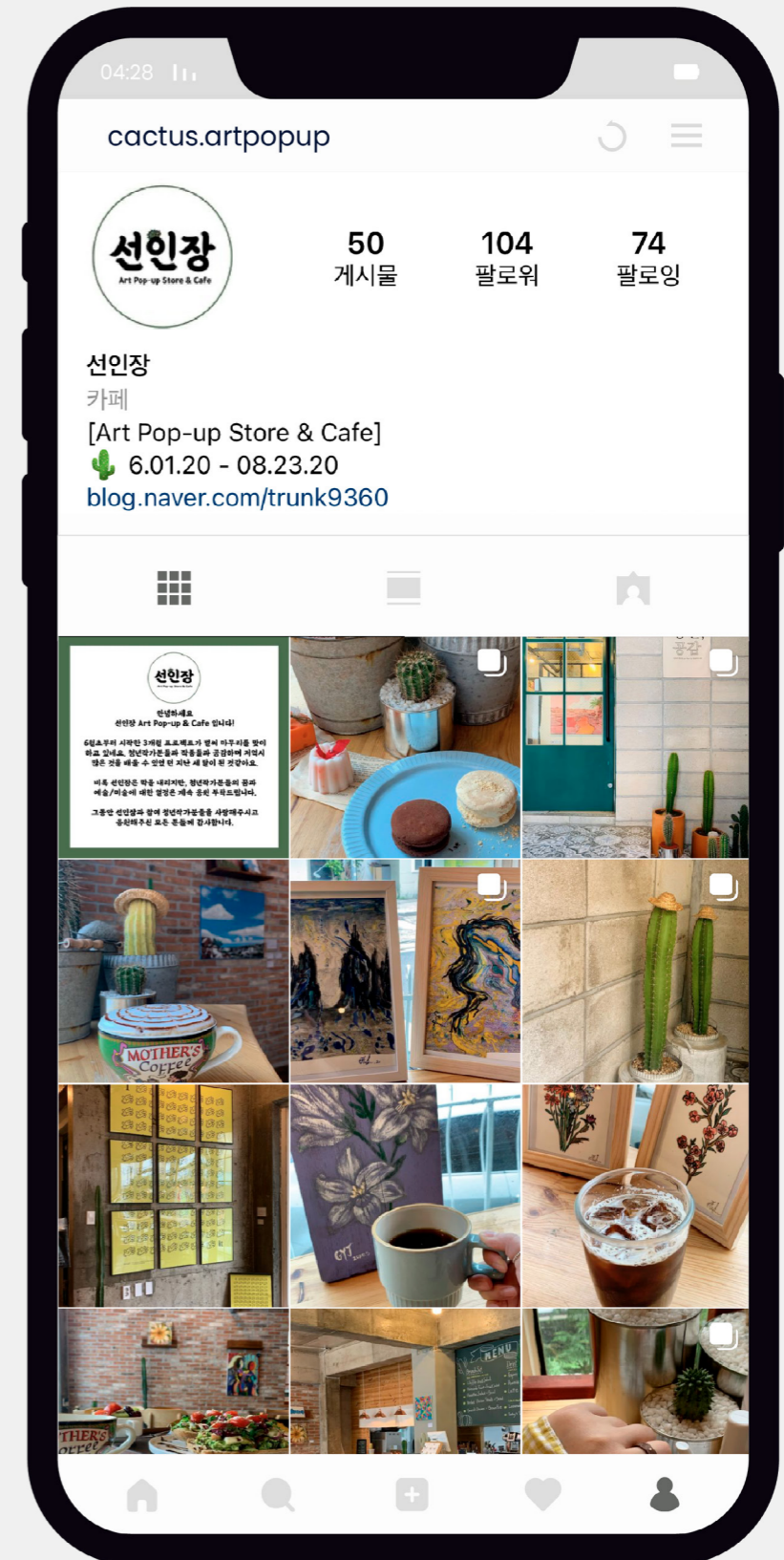
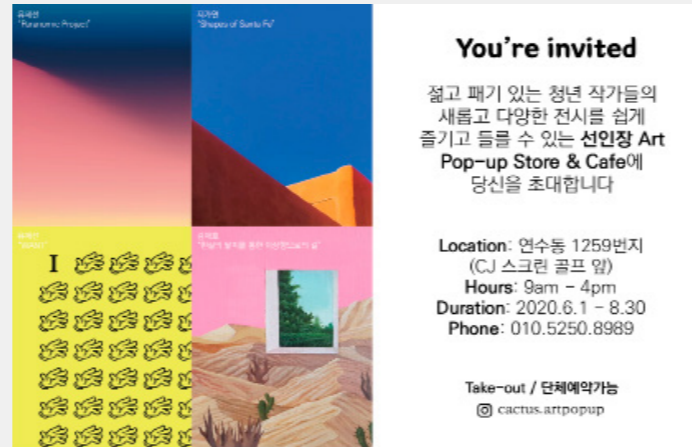
CACTUS: POP UP GALLERY & CAFE

FOUNDER JUN - AUG 2020

When I came back home in Feb 2020, I realized the lack of art-related opportunities for young artists and college students in Chungju. Then I contemplated ways to best utilize my previous experiences as an artist, entrepreneur, and educator and to contribute to the local community.

This led to opening the doors of 선인장 (Cactus), a pop-up space for 10 local young artists in Chungju to exhibit, sell artworks, hold art classes and connect with other artists and visitors. Moreover, on average, for most galleries, art sales commission averages about 40%-50%. However, at the Cactus, 70% of the art sales went to the artist, and 10% was donated to the Chungju Youth Shelter. I directed all aspects of the business from curating, creating social media identity, cooking, and accounting, resulting in \$8530 in revenue and \$1000 in donations to the Chungju Girls Youth Shelter.

#communitybuilding
#supportlocalartist
#entrepreneurship #art



SHELTER COMMUNITY MURAL & GARDEN PROJECT

**PROJECT DIRECTOR
MAR - APR 2020**

“Because of Covid19, the Shelter kids were stuck inside. Through this project, they were able to come outside, work together, communicate, and create. We try our best to make the Shelter feel more like home for the girls. This project allowed them to feel as if they were decorating their own home.” - Sungsook Park, Shelter manager

Chungju Teenage Girls' Shelter (Shelter) is a non-profit organization that provides a safe home for those without a place or family to return to. Some of these teenage girls are orphans or have a history of domestic violence. Starting in February 2020, the community members could not go outside the Shelter due to safety and health issues brought by the pandemic. The Shelter staff struggled to balance between supporting the girls from feeling stuck and depressed while keeping them safe.

Through directing a community mural project, I taught the youth about social change, the history behind murals, and how to express themselves through art. One of the girls told me: *“We may be slower than others. Through the guidance and support of Teenage Girls' Shelter, we can learn, grow, and prepare for the future at our own pace. Each one of us is just like a caterpillar transforming into a butterfly when we break from within.”*

Inspired by her remarks, I started to translate these teenage girls' thoughts onto the canvas. The mural consists of butterflies, a yellow



after.

background, a rainbow, a river, trees, and the phrase “We are family.”

Butterflies symbolize growth and progress. Yellow signifies warmth, vitality, creativity and happiness. The rainbow conveys a message of equality, diversity, and serenity.

The volunteers, girls, and I altogether created the “Shelter Garden” by painting the murals, planting the grass and flowers, and creating an outdoor café with our own hands. The “Shelter Garden” continues to provide new connections between the girls and home as they build memories, create stories, and bring purpose to this extended space. Through establishing new relationships, the Shelter also became a part of my home. This experience taught me how art and its process could transform into tools to help us redefine or reconnect our relationship with “home.”

Process Video: <https://www.youtube.com/watch?v=rZLPr22VVtk>

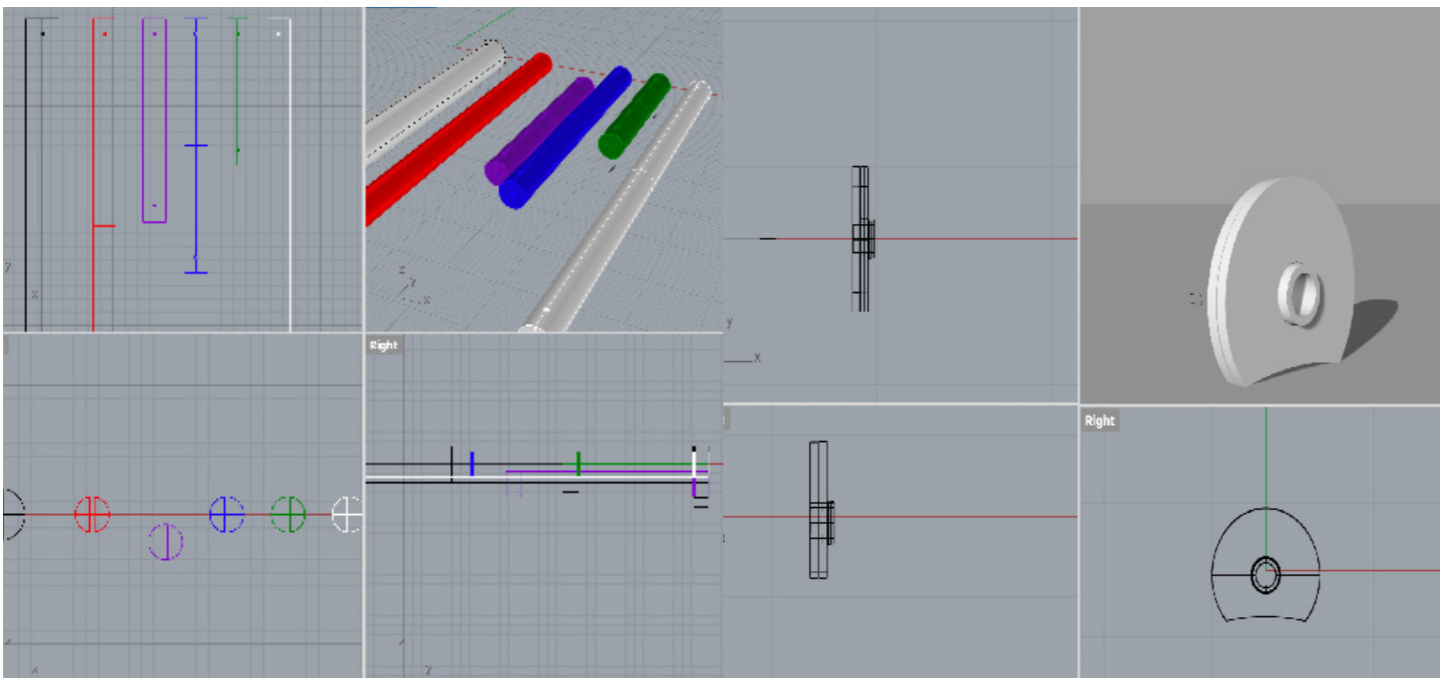
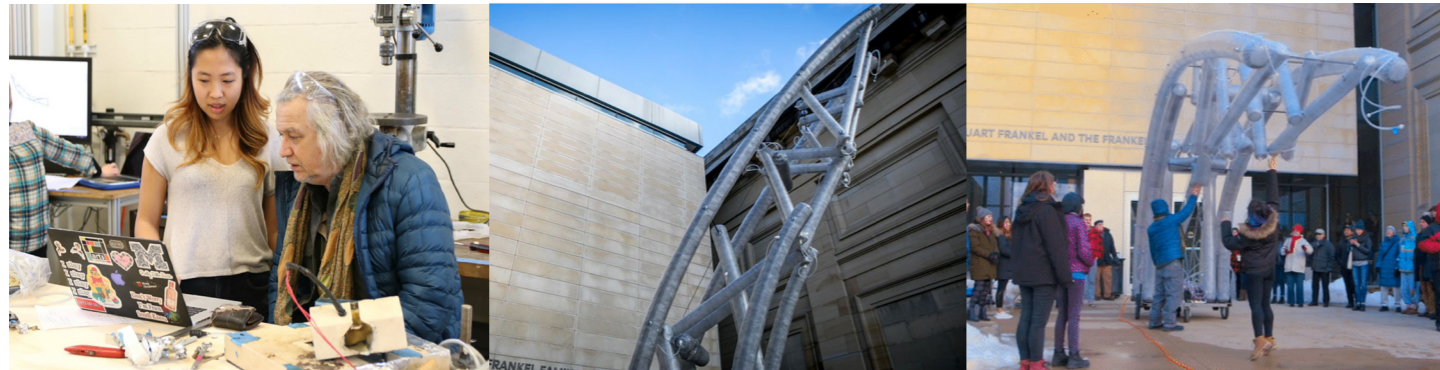
#communitybuilding #muralart #creativity #agency
#placemaking #youthempowerment



before.



CHICO MACMURTRIE : BORDER CROSSER



Bottom three photos by © MacMurtrie/ARW.

DIGITAL FABRICATION TEAM MEMBER Dec 2017 - Apr 2018

A team of 16 students from the schools of Art and Design, Engineering, Literature, and Science worked together to create and reconstruct a lightweight and inflatable sculpture designed by world-renowned artist Chico Macmurtire called the 'Border Crosser.' I contributed to this project by 3D designing a click-on system for the spine of the front link and printing them to increase stability and connection between each links of the Border Crosser.

Being a part of the Border Crosser taught me how to cross the borders that I have created in my life. I still remember the talk I had with Chico in the gallery. I said, "The visual purpose of Border Crosser has definitely opened not only my eyes but our audiences to the issues that are happening concurrently with border patrol. It would be amazing to have our Border Crosser performing at the actual border, but even if it doesn't, I don't think it matters. The Border Crosser had me reflect on a different level what a border means to me and whether that border is even a physical concept or a subjective concept that I create myself. Through the experience I had with Chico and the team, I was able to take a step in building the courage to cross the borders that I face."

Media cover: <https://www.youtube.com/watch?v=bNBZwoZeXKA>

#socialjustice #engineering #digitalfabrication #creativity
#technology #activism

INJUSTICE OF IGNORANCE

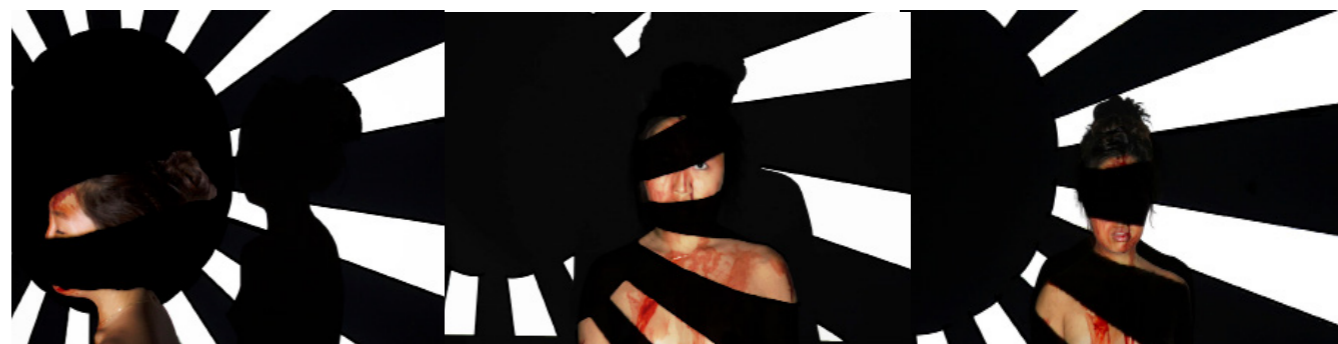
: RISING SUN FLAG AWARENESS SERIES

2018

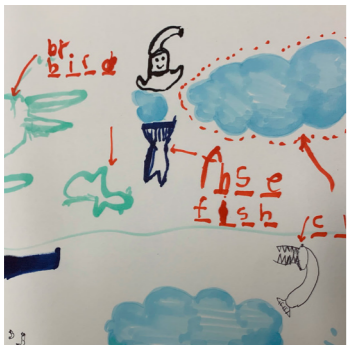
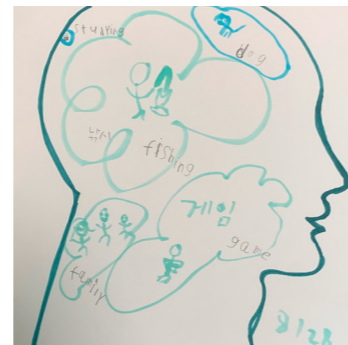
Flags are not only symbols of honor, respect, and pride for nations, but also an artistic visualization of the shorthand of history. The use of historically controversial flags evokes different emotions, as each flag laden with different political and historical implications. The Rising Sun Flag, specifically, is associated with both negative and positive concepts as a symbol of Imperialist Japan and Japanese civic pride. However, the conversation about the negative connotations of the flag is often disregarded in the West.

Growing up in a society where the use of the Rising Sun Flag was taboo, it made me feel uncomfortable to use the flag as a part of my work. This series represents my exploration that shifted from frustration and anger to understanding and respect for both sides of history. As Dread Scott, a renowned installation artist for his use of flags, emphasized in his installation, if I had just said "You Americans are wrong and offensive. The Rising Sun Flag is terrible, and you should burn your t-shirt that has the flag on it," there would be no room for further conversation in building respect and understanding. Rather than allowing anger to overshadow my message, I aimed to use my art to enlighten another part of the history that is not so well known to the West and to create a space for dialogue.

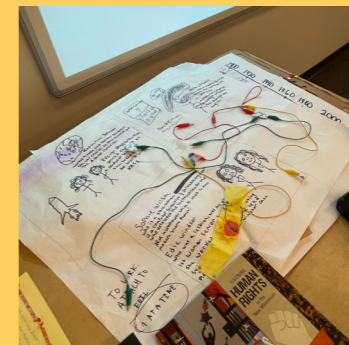
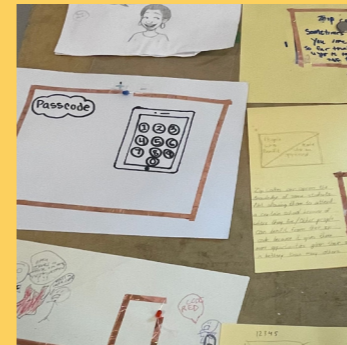
#activism #photography #history
#storytelling #conversations



ARTS IN EDUCATION : STUDENT WORKS



ART + ESL CURRICULUM DEVELOPMENT
PRIVATE TUTOR
SOUTH KOREA



RESTORING CS IDENTITY THROUGH COMPUTATIONAL QUILTS
RESEARCH ASSISTANT
PHIADELPHIA, PA



BENNETT ELEMENTARY SCHOOL
VOLUNTEER ART INSTRUCTOR
DETROIT, MI

AND MANY MORE TO COME THROUGH MY CONTINUING RESEARCH JOURNEY TO DESIGN LEARNING OPPORTUNITIES TO HELP YOUNG PEOPLE LEARN, PLAY, AND COMMUNICATE THROUGH ART & TECHNOLOGY

THANK YOU!