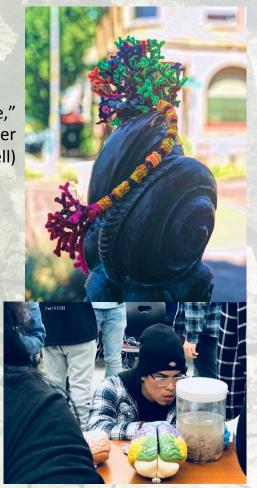


APA/APF/OSU Workshop

"Waterdance," by Miles Pepper (with brain cell)

- Bill Griesar, Ph.D.
 - Senior Instructor, Psychology, Portland State University
 - Affiliate Graduate Faculty, Behavioral Neuroscience, OHSU
 - Co-Founder/Neuroscience Coordinator, nwnoggin.org
- Kanani Miyamoto, M.F.A.
 - Teaching artist, Regional Arts & Culture Council
 - Teaching artist, Right Brain Initiative
 - Adjunct Instructor, Portland Community College
 - Adjunct Instructor, Pacific University
 - Resource Council/Arts Integration, nwnoggin.org







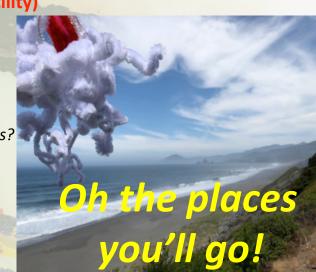


BUILD NEW CONNECTIONS





- Academic priority K-12, urban/rural communities, tribal majority schools
 - Not always well-funded, or valued, often ignored, subjected to standardized testing that primarily benefits others.
 Complex brain development underway, unacknowledged diversity, mental health...
- Homeless youth (p:ear), incarcerated youth (MacLaren Correctional Facility)
 - "It's like people see me as an object, not as a human being"
- Young graduate researchers, undergraduates (PSU, OHSU,...)
 - How does my research relate to the world? How can I explain it?
 - Where can I go from here? "Alternative careers" in science...
- Artists: Painters, Dancers, Storytellers, Musicians
 - How does my work relate to other fields? How do I connect with new audiences?
 - How is my practice influenced and enriched by discoveries about the brain?
- Area businesses (BioGift, Intel, Velo Cult, Hospitals)
 - How can we better connect with everyone in our community?
- Members of the public
 - Why are my taxes spent on research? Art? What are we discovering? Making?



Why art & brains..?

- Motivation, engagement, empathy
- Exploration, creativity, INNOVATION
- Personal relevance of STEAM material











HOMELESSNESS & THE BRAIN

Thurs, Oct 19th 10am - 1pm



p:ear mentor gallery 338 NW 6th Ave

nwnoggin.org pearmentor.org

STREET KIDS ART NEURO-SCIENCE











Synapses, Stories & Song

Confederated Tribes of the Grande Ronde, Siletz





Youth get visual, hands-on experience with the brain

NW Noggin, a neuroscience outreach nonprofit, reached out to youth at MacLaren Youth Correctional Facility this week to teach about brain development.



Lindsay Keefer on January 24, 2019



Neuroscience & the Law

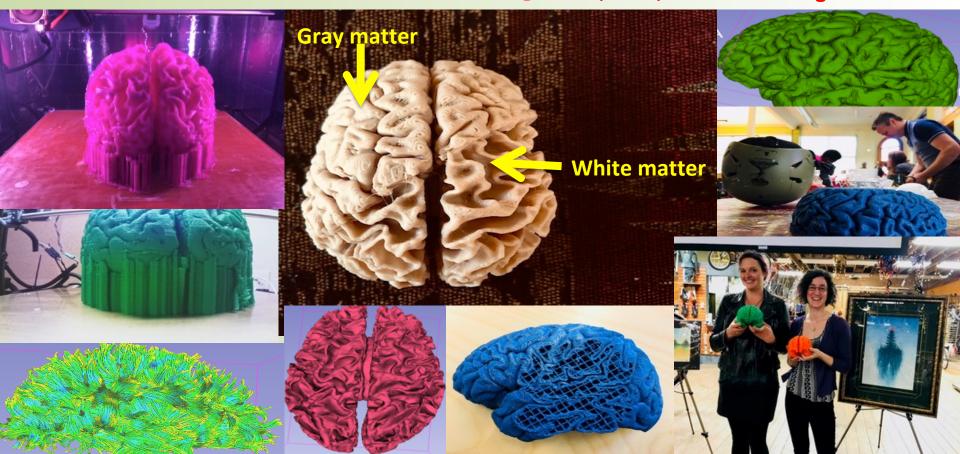


MacLaren Youth Correctional Facility



Art + Neuroscience = 3D printed brains

Collaboration with Make + Think + Code @ PNCA, Intel, PDX 3D Printing Lab!





FRI OCT 19

B***** OF THE SUN SHANNON ENTROPY DISENCHANTER MOUTHBREATHER STARGASM





Connect. And copy!

REACH OUT. PARTNER. GO PLACES.

There are resources in ALL our communities...

 Public schools, hospitals, art museums, homeless shelters, youth correctional facilities, pubs, retirement homes,...

 And don't wait for institutions, especially if they focus more on preserving administrative structures instead of fulfilling their mission...



Making a pipe cleaner neuron...

1. Start with a good amount of (colorful) pipe cleaners, I have 20 here.



2. Create the soma or cell body by linking several pipe cleaner hoops together.



3. Attach dendrites to your soma by wrapping them around the soma pipe cleaners.



4. Attach axon terminals to the other end of your axon.



5. Wrap myelin around your axon.

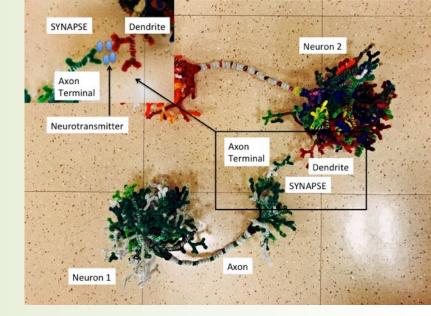


MAKE CONNECTIONS

MAKE ART

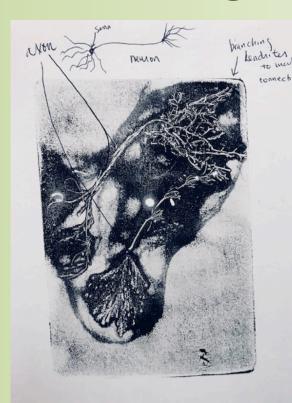
6. Create a nucleus for your soma by wrapping two pipe cleaners around each other.
Attach your nucleus inside your soma. You have a neuron!







Neuron gel prints











Students will learn about the form and function of neurons through a simple printmaking process.

Introduction

Prior to the project discuss what a neuron is and its basic functional parts followed by a discussion of why plants and neurons might have similar forms. Take a look at the many different forms of neurons.

Materials

- · Gelatin slabs, or Gelli plates
- Block printing ink (water soluble is best)
- · Printing paper (printmaking paper works best but drawing paper will do as well) Plant material (smaller plants work best)
- · Ink roller (Braver) Barren

Making a neuron gelatin print

to it (you want a thin even layer of ink, too much ink will not work as well).



1. Take your gelatin slab or Gelli plate and roll ink on 2. Place plants on the plate in a neuron like pattern (thinner and smaller plants work better)



- 3. Place your paper face down on top of the plate, apply pressure with your barren or press with your hands if don't have one (apply a good deal of
- 5. Carefully remove the plants from the plate, you'll notice that impressions of them have been pressed in to the ink.

