

NWNOGGIN



nwnoggin.org

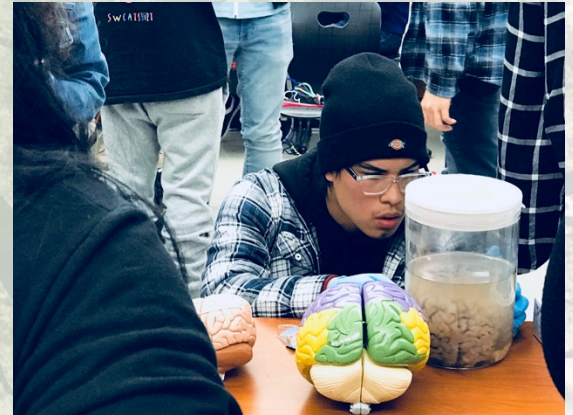
Arts integrated neuroscience
outreach for K-12 & community



Behavioral Neuroscience Retreat

- **Bill Griesar, Ph.D.**
 - Senior Instructor, Psychology, Portland State University
 - Affiliate Graduate Faculty, Behavioral Neuroscience, OHSU
 - Co-Founder/Neuroscience Coordinator, nwnoggin.org

**Action and Potential
in Outreach, Teaching
& Research**



Sleep
Anxiety
Depression
ADHD
Autism
Development
Perception
Drugs
Memory
Language
Bias



***What you do
has relevance
GO PLACES***



We all pay for research



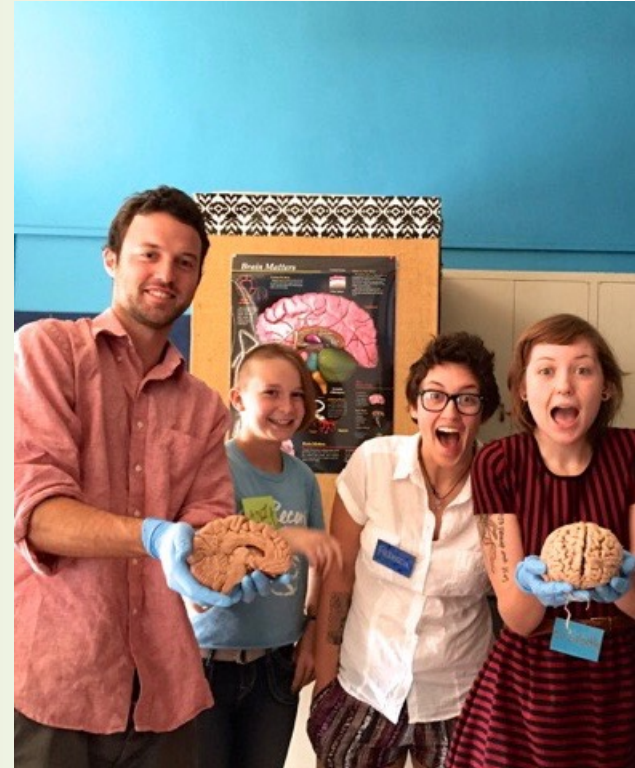
Greater understanding
More support for research
Increased participation
Less confirmation bias
New directions
FUN!

Connections matter

BEHN 650: Teaching Practicum

Two, two week sessions, winter term, four slots...

- ***Are you curious about teaching?*** Want to work with undergraduates at PSU, the most diverse public university in Oregon? Improve your speaking & presentation skills, & make your research accessible? Are you excited about engaging, inspiring & genuinely connecting with students as a role model & mentor? Are you interested in gaining experience that might help you land a job after your defense..?
- Behavioral Neuroscience offers a Teaching Practicum course (BEHN 650) in winter term, which provides short (two week) opportunities **for post-quals graduate students with mentor permission** to prepare and deliver lectures on your own lab work & current topics in neuroscience research (e.g., drug abuse/dependence, learning & memory, adolescent brain development, neurodegeneration,...), lead discussions, organize online course materials, & develop/score assessments.



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 (MaLaren 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?

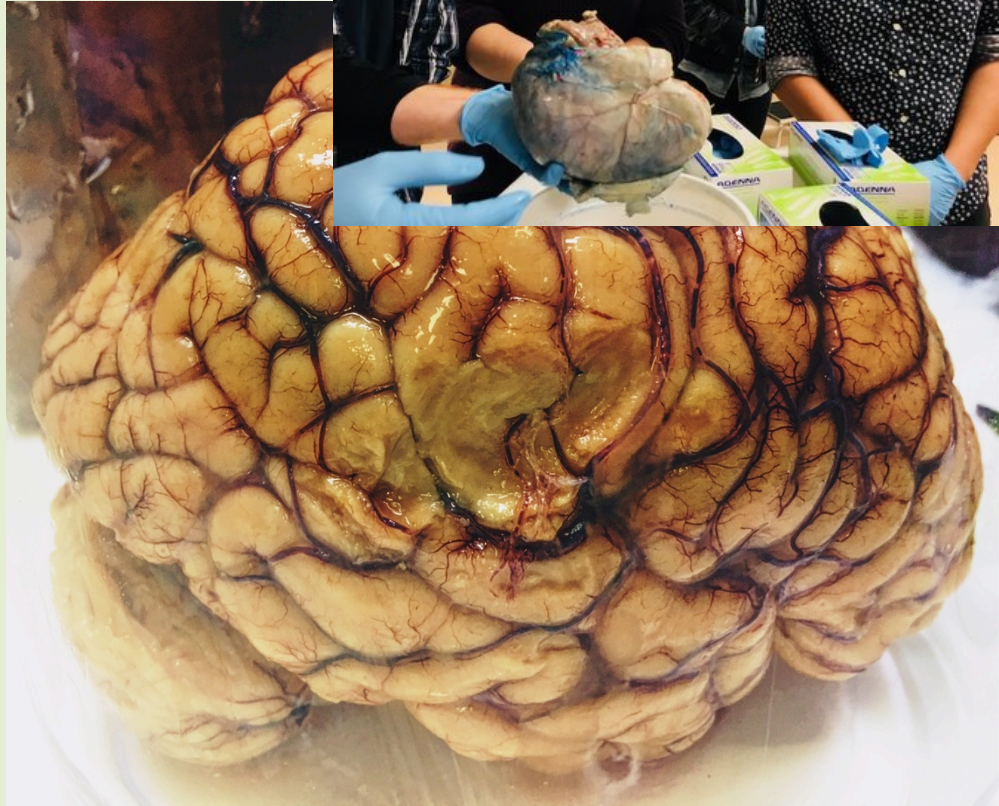
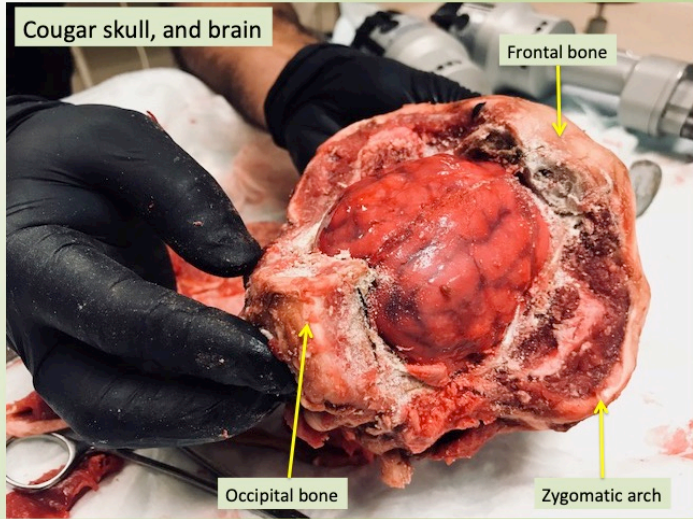


**Oh the places
you’ll go!**

Brains for outreach



BioGift
Body donation
Job opportunities
Neuroanatomy



Why art & brains..?

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



Build your own mouse line!

 N.W. Noggin
@NWNoggin

Building a #rosehipneuron in
#pipecleaners 🧡 #nwnoggin 🧠🎨
#sciart #scicomm 🍷
nwnoggin.org/2018/08/31/ros...

Kukátón Performance

For example...

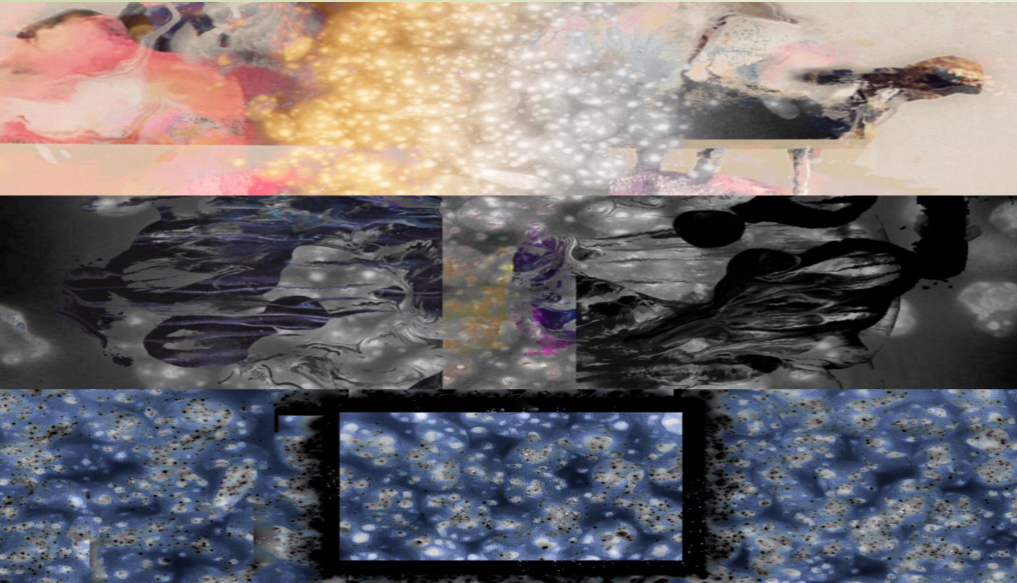
Dancing, mistakes, movement
...and Parkinson's!



Kúkátónón Dance Troupe @ Velo

Old Town Talks

- *Coming in October (10/15, 6-8pm!)*
- *Floyds Old Town Coffee, Portland OR*
- Sydney Boutros (OHSU) & artist Kit Carlson



**NWNoggin
& Floyd's Old Town Coffee
Present**

NOGGIN OLD TOWN TALK
Breaking it down: The abstraction of
encoding memories
Sydney Boutros, OHSU Behavioral
Neuroscience & New/Mixed Media artist
Kit Carlson

Where & When

Floyd's Old Town Coffee
(& Brews!),
118 NW Couch St,
Portland, OR 97209
Tuesday, October 15, 6:00 - 8:00pm

"What is a memory? Memories make us who we are, but how does an event, an interaction, an idea stick in our head? How do poetry, painting and photography contribute? Does our DNA have to break for us to remember? Come find out as we explore our memories through genetics, games and art."

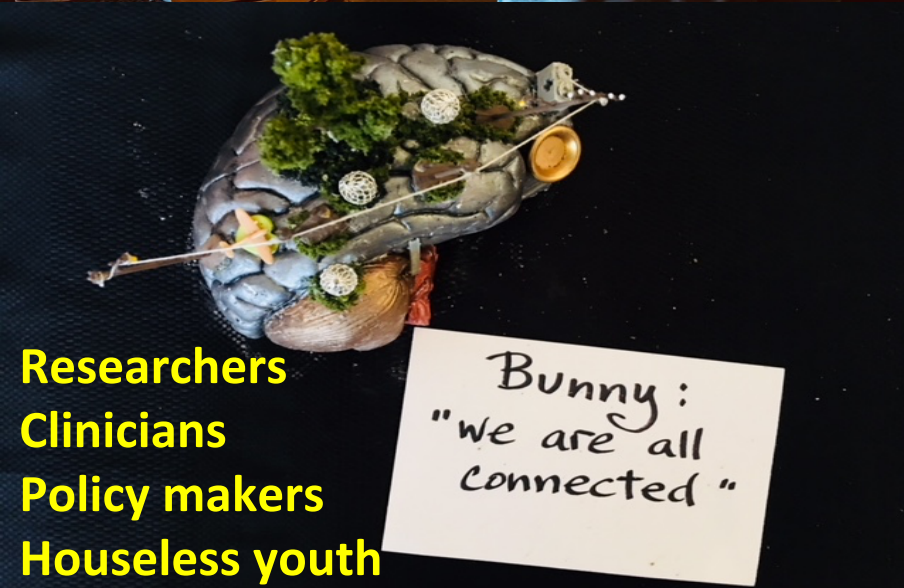


For more information go to nwnoggin.org



Noggin @ p:ear

"It's like people see me as an object, not as a human being"



Bunny:
"we are all
connected"

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



At SfN in DC (2017)



Posters, art of neuroscience *and...*

School visits



Turner Elementary, DC



And during SfN 2018...
San Diego Unified Public Schools!

And also...Capitol Hill

**More connections: Congressional office visits
Congressional Neuroscience/STEAM briefing**



Research should inform policy

Rural Outreach

LEAVE TOWN!

Siletz, Amity &
Willamina, OR
Pop: 4,000

Davenport, WA
Pop: 1,700

La Grande, OR
Pop: 13,000

Heppner & Ione, OR
Pop: 1,240

Meservy
Meadows,
OR Pop:
~40



Food, housing, baby goats...





Noggin in Heppner, OR

Synapses, Stories & Song

Confederated Tribes of the Grande Ronde, Siletz



Synapses, Stories & Song



Neuroscience & the Law



MacLaren Youth Correctional Facility

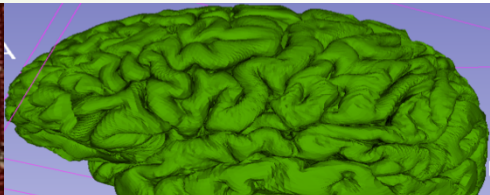
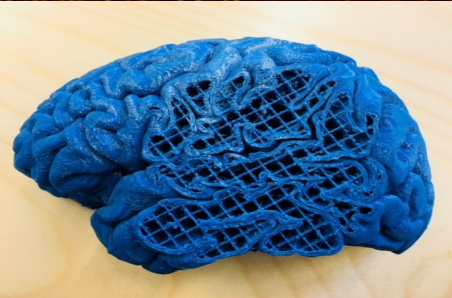
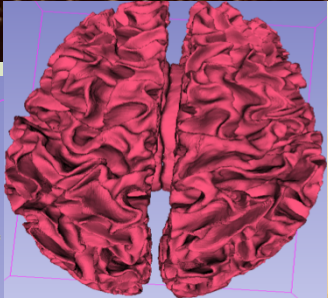
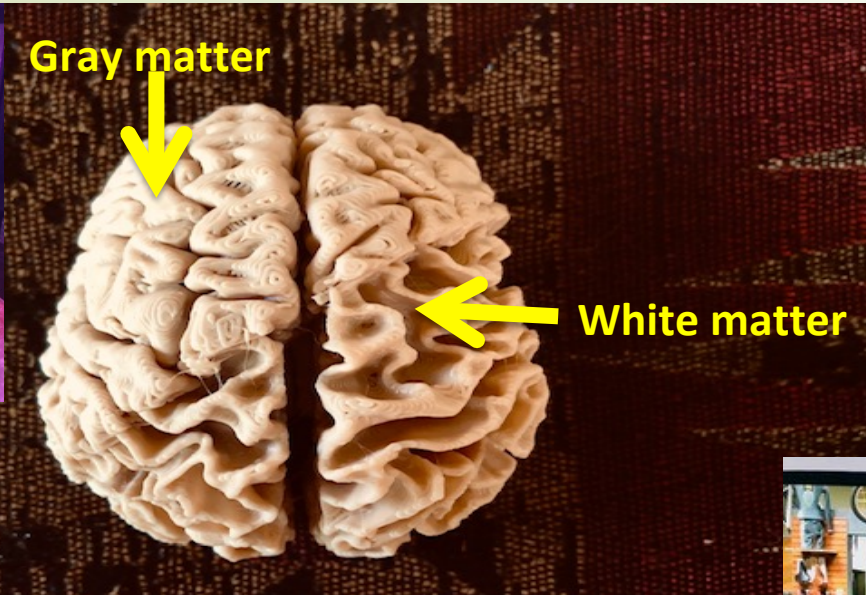
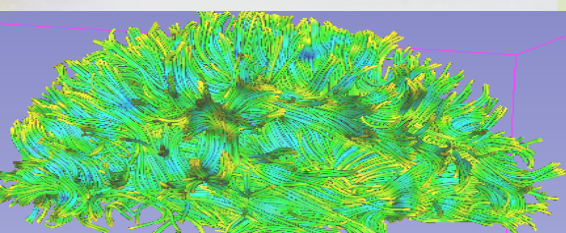
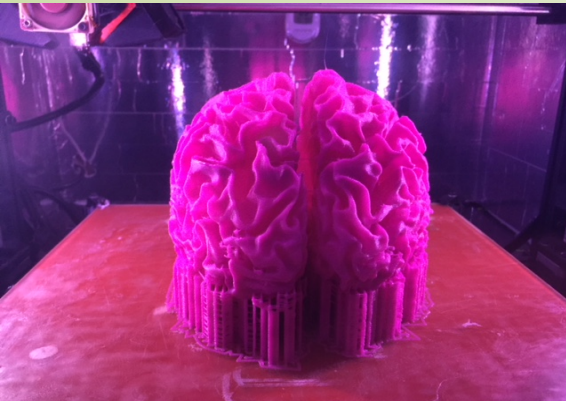
Arch Rock Brewing, Gold Beach, OR

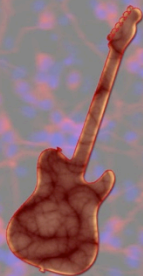


Alcohol and the brain

Art + Neuroscience = 3D printed brains

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



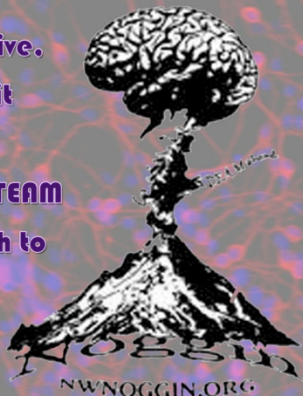


October 5th || 1pm-12am 2019
location: Watershed 5040 SE Milaukie

All Ages!
Suggested
Donation:
\$5-\$10

A Celebration of Science, Art, & Music

Come support a robust, creative,
and volunteer driven non-profit
organization of scientists and
artists of all ages that bring STEAM
based education and research to
public k-12 schools!



real brains!
live music!
art auction!
raffle prizes!

science workshops!
food & beverages!
arts & crafts!



Noggin Fest Saturday October 5!



NWNOGGIN

