Newsletter Ed. January 2019

CogSci Talks: Neuroscience/CBN

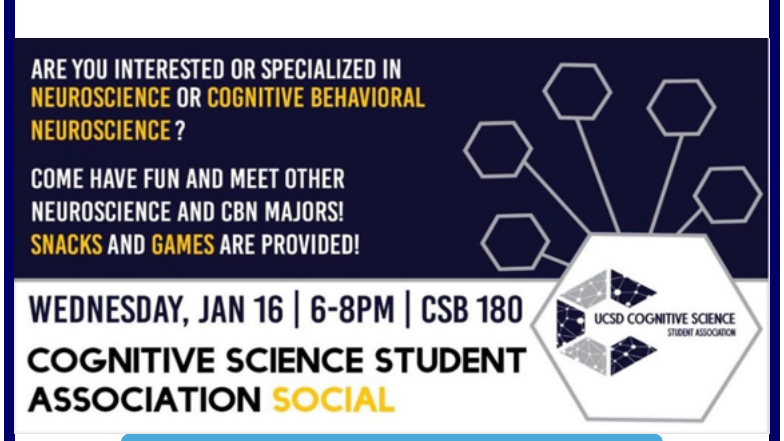
Welcome to the first of CSSA's CogSci Talks of the year! Come learn more about **Neuroscience** and **Cognitive Behavioural Neuroscience** as our two featured speakers, Dr. Seana Coulson and Dr. Andrea Chiba cover their research in the field. If you're interested in neurons and glia, this is the talk for you! Checkin starts at 5.45 pm. Light refreshments may be provided. Come attend the social that will be held the day before to meet other students from your specialisation! (details given below)

Click here for the Facebook event

COMING UP THIS MONTH:

Week 2:

JAN 16th
Social #1: Neuroscience/ CBN
@CSB 180 6-8pm



Checkout the FB event

JAN 17th
GBM #1 Talk Series:
Neuroscience/Cognitive Behavioural Neuroscience
@Bear Room (PC Level 1) 6-8pm

Week 3:

JAN 23rd
Social #2: Machine Learning & Neural Computation
@CSB 180 6-8pm

What's new in the CogSci world?

Pupil dilation may indicate mental workload

Though previous research on workload and productivity has discovered the physical indicators of stress on the body, a study has found that your mental health can be measured by the amount of pupil dilation.
As expectations of work productivity have soared in recent years, it has become even more vital to identify signs of overwork. To make working environments safer, researchers used fractal dimension to analyze the relationship between workload and pupil dilation.As a result, they found that pupil dilation could be used to measure stress levels and that the higher the stress level, the less the pupil dilated. This type of work can be used for future studies which also rely on human-computer interaction to study

JAN 24th
GBM #2 Talk Series: **Machine Learning & Neural Computation**

Week 4:

JAN 30th
Social #3: Language & Culture @CSB 180 6-8pm

JAN 31st
GBM #3 Talk Series: **Language and Culture**

Click the image below to access the full calendar for the Talk Series !

Want to know 10 things we learned about the brain in 2018?

physiological measures.

Link to research article

Brain-Computer Interface (BCI) technology to interpret words from brainwaves!

Researchers are training computers to decode and read words from brain waves by combining advancements in deep learning with the latest innovations in speech synthesis technology. Three different teams of researchers used Electrocorticography (ECoG), electrodes placed directly on the surface of the brain, to record neural activity while patients read words out loud or listened to speech. The ultimate goal of this technology is to make it possible for individuals who've lost their ability to speak to be able to speak via a brain-controlled interfaces (BCI) in the future. Although these studies had small sample sizes, the results from these studies demonstrate the efficacy in using deep learning techniques and speech synthesis algorithms for designing future generations of BCI systems.

Learn more

Credit: Shutterstock

CLICK HERE

Have questions for CSSA?
Contact us at
cssa.ucsd@gmail.com

Have questions about Cognitive Science?
Visit http://www.cogsci.ucsd.edu

Interested in participating in a research study?

The Swerdlow Lab in the Department of Psychiatry is currently recruiting participants for their "EEG and Learning" study. Please click here to access the flyer for more information.

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