



UNIVERSITY OF  
CALGARY

# MONDAY MEMO

February 14, 2022

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## DEPARTMENT NEWS

### HIGHLIGHTED PUBLICATION




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**Kam, J.W.Y., Mittner, M., & Knight, R.T. (2022).** Mind wandering: Mechanistic insights from lesion, tDCS and iEEG. *Trends in Cognitive Sciences*. <https://www.sciencedirect.com/science/article/pii/S1364661321003132?dgcid=author>

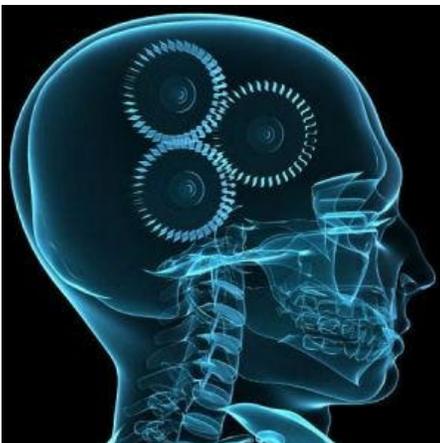
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fMRI evidence has convincingly implicated the default mode network (DMN) and frontoparietal control network (FPCN) in mind-wandering. Less is known about which subregions in these networks are necessary, and how they facilitate mind-wandering.

A growing number of studies use the lesion and transcranial direct current stimulation (tDCS) approaches to establish the causal link between DMN and FPCN subregions and mind-wandering. They have also identified the mechanistic role of intra-DMN connectivity in this phenomenon.

Intracranial EEG studies have revealed the neurophysiological mechanism underlying mind-wandering and its preferred frequencies in the theta and high-frequency band for communication within and across large-scale neural networks.

To achieve an in-depth understanding of the where, when, and how mind-wandering is implemented in the brain requires a shift away from the predominant reliance on one method toward an integration of complementary methodological approaches.



## RESEARCH NOTES AND ACTIVITIES

**Becker, S., Sharma, M.J., & Callahan, B.L.** (2022). ADHD and neurodegenerative disease risk: A critical examination of the evidence. *Frontiers in Aging Neuroscience*, 13(826213): 1-17. <https://doi.org/10.3389/fnagi.2021.826213>

**Beveridge, J. K., Yeates, K. O., Madigan, S., Stone, A. L., Wilson, A. C., Sumpton, J. E., ... & Noel, M.** (2022). Examining parent adverse childhood experiences as a distal risk factor in pediatric chronic pain. *The Clinical Journal of Pain*, 38(2), 95-107

**Callahan, B.L., Ramakrishnan, N., Shammi, P., Bierstone, D., Taylor, R., Ozzoude, M., Goubran, M., Stuss, D.T., & Black., S.E.** (in press). Cognitive and neuroimaging profiles of older adults with ADHD presenting to a memory clinic. *Journal of Attention Disorders*, Nov 16:10870547211060546. <https://doi.org/10.1177/10870547211060546>. Online ahead of print

**Callahan, B.L., Plamondon, A., Gill, S. & Ismail, Z.** (2021). Contribution of vascular risk factors to the relationship between ADHD symptoms and cognition in adults and seniors. *Scientific Reports*, Dec 20;11(1):24276. <https://doi.org/10.1038/s41598-021-03782-y>

**Callahan, B.L., Shammi, P., Taylor, R., Ramakrishnan, N., & Black., S.E.** (2021). Longitudinal cognitive performance of older adults with ADHD presenting to a cognitive neurology clinic: A case series of change up to 21 years. *Frontiers in Aging Neuroscience*, 13(726374):1-16. <https://doi.org/10.3389/fnagi.2021.726374>

**Kam, J.W.Y., Mittner, M., & Knight, R.T.** (2022). Mind wandering: Mechanistic insights from lesion, tDCS and iEEG. *Trends in Cognitive Sciences*. <https://www.sciencedirect.com/science/article/pii/S1364661321003132?dgcid=author>

Katy Celina Sandoval, Sarah E. Thackray, Alison Wong, Nicole Niewinski, Colten Chipak, Sukhjinder Rehal and **Richard H. Dyck**. Lack of vesicular zinc does not affect the behavioral phenotype of poly (I:C)-induced maternal immune activation mice. *Frontiers in Behavioral Neuroscience* (in press). <https://doi.org/10.3389/fnbeh.2022.769322>

**Sohail, R., Berg, L., & Cresswell, J.** (2021). Realism and symbolic systems in the practice of scientific psychology. *Theory & Psychology*, 31(3), 451-454. <https://doi.org/10.1177/09593543211006473>

**Soltani, S., van Ryckeghem, D. M., Vervoort, T., Heathcote, L. C., Yeates, K. O., Sears, C., & Noel, M.** (2022). Clinical relevance of attentional biases in pediatric chronic pain: an eye-tracking study. *Pain*, 163(2), e261-e273

## EVENTS

**Are you interested in Open Science? So are we!**

Join the students in the Open Science Student Support Group (OSSSG) for biweekly sessions where we discuss and learn about different open science practices and support each other in implementing these practices in our own research. Everyone is welcome to attend any or all sessions and bring friends! For questions, contact Gwen van der Wijk at: [gwen.vanderwijk@ucalgary.ca](mailto:gwen.vanderwijk@ucalgary.ca)



**We're doing a workshop on GITHUB & OSF for our Second Session**

**\*\*FRIDAY FEBRUARY 18<sup>th</sup> from 4:00 – 5:30pm\*\***

**Topic: Navigating GitHub and OSF (through Graphical User Interfaces)**

**For registration:** <https://ucalgary.zoom.us/meeting/register/tJItumupjwsE9IrvH97NJ6NOsM3T5sRswMq>

### **Canadian Space Health Research Network**

Dr. Giuseppe Iaria will be on the panel discussion for the Canadian Space Health Research Network's discussing the commercialization of space, our hopes for the future of space health research, and the potential of private spaceflight – such as the impending Ax-1 mission – to advance scientific investigation. Event will take place February 16, 2022 from 9:00AM-10:30AM PST  
Registration required: <https://www.canadianspacehealth.ca/webinars>



## VOLUNTEER AND JOB POSTINGS

### For Undergraduate Students

#### **The Arts Undergraduate Research Symposium**

The Arts Undergraduate Research Symposium (AURS) is an opportunity for undergraduate students within the Faculty of Arts to present their research, gain feedback from the professors on our panel of judges, and compete for monetary and/or academic rewards. AURS is an amazing opportunity for students to gain experience in presenting their research and can help enhance their research experience!

Submit your abstract and academic resume using the link here: <https://forms.gle/V1NZmmVvwfhg8hFv5>. Applications are due by 11:59 p.m. (MST) on February 19."

### For Graduate Students, Faculty, & Staff

#### **Sessional Faculty Positions**

Ambrose University invites applications for one or more of the following sessional faculty positions in the Social Sciences (Psychology and Sociology) for the 2022-2023 academic year.

Candidates should have a Master's degree (PhD preferred) in a relevant field by the time of placement. Successful candidates will be committed to high quality teaching and be student centered. We seek candidates whose teaching interests complement and strengthen the Social Sciences department at Ambrose University. Preference will be given to candidates with undergraduate teaching experience, and abilities to integrate Christian perspectives into teaching and learning.

For more information, visit: <https://ambrose.edu/job/sessional-faculty-positions-social-sciences>

#### **Limited-Term Instructor**

The Department of Psychology and Neuroscience at Dalhousie University invites applications for a 10-month limited-term Instructor to start August 1, 2022. Job candidates should have a PhD degree in Psychology and have teaching experience at the undergraduate level, and preferably in the areas of Clinical Psychology, Research Methods in Psychology, and Psychopathology. Experience with online course delivery and online learning management systems (preferably Brightspace) is required.

The successful candidate will be responsible for instructing five (5), 3-credit hour courses (3 in the fall term, 2 in the winter term): Adult Psychopathology (PSYO 2220F), Methods in Experimental Clinical Psychology (PSYO 3122F/W), Childhood Psychopathology (PSYO 3129F/W). Note: PSYO 2220 and 3122 is planned to be delivered in-person, while PSYO 3129 is planned for online delivery.

Applications can be made at <https://dal.peopleadmin.ca/postings/8672> and should be submitted by 4 March 2022. Applications should include a summary of previous teaching experience and highlight any relevant experience with software and/or online course delivery, statement of teaching interest, a curriculum vitae, evaluations received in previously taught university courses, and names, addresses and emails of three references (applicants selected for further consideration will be notified before referees are contacted).

#### **Core Faculty, Doctor of Psychology at Adler University**

Under the general guidance of the Program Director, the Core Faculty, Psy.D position involves providing instruction for courses in the Psy.D programs, supporting student learning and outcome measurements, supervising student thesis projects, engaging in committee work, participating in program development, and student academic advising. The position entails attendance at monthly Faculty Council and weekly Program meetings on campus. The Core Faculty, Psy.D leverages industry knowledge and best practices to promote the mission and vision of the Psy.D department and the institution. Supports culture development and management efforts. For more information visit: <https://recruiting.ultipro.com/ADL1000/JobBoard/b809b751-42a6-bffa-f3ce-536e549e35d9/OpportunityDetail?opportunityId=ea00db77-87bb-4e83-bd75-1854d90bc737>

### **Director Of Clinical Training, Psy.D at Adler University**

Under the general guidance of the Department Chair, Clinical Psychology Doctoral Program, the Director of Clinical Training - PsyD (DCT) oversees the entire practicum and internship experience for the students in the Clinical Psychology Doctoral Program. The DCT acts as a liaison between other faculty in the PsyD program, training sites, and the students. For more information visit:

<https://recruiting.ultipro.com/ADL1000/JobBoard/b809b751-42a6-bffa-f3ce-536e549e35d9/OpportunityDetail?opportunityId=6e84ea3a-6e30-4763-9214-69aedaba35d4>

### **Post Doc Fellowship**

The University of Nevada, Reno, Department of Psychology is accepting applications for a postdoctoral fellowship in the Resilience Lab headed by Dr. Paul Kwon, who will be joining the department in Fall 2022 as a Professor and the Director of Clinical Training. The position will involve both research and clinical activities. The proportion of duties will be determined by the interests and needs of the successful applicant.

The Resilience Lab studies mechanisms that mitigate the risk of mental illness for individuals from stigmatized communities, particularly the LGBTQ+ community, and explores ways of nurturing resilience and thriving. Clinical work will include a particular focus on assisting in the establishment of, and seeing clients in, a new clinic for LGBTQ+ clients. Upon mutual agreement, the fellowship will be extended to a second year. The preferred start date for this position is September 1, 2022.

Required Qualifications: A Ph.D. from an APA-accredited program in Clinical Psychology by time of appointment. The candidate must have completed an APA-accredited doctoral internship by time of appointment. Questions regarding the position can be directed to Dr. Kwon at [kwonp2001@gmail.com](mailto:kwonp2001@gmail.com)

Further information and a portal for submission of applications can be found here: [https://nshe.wd1.myworkdayjobs.com/UNR-external/job/University-of-Nevada-Reno---Main-Campus/Postdoctoral-Scholar---Psychology\\_R0128870-1](https://nshe.wd1.myworkdayjobs.com/UNR-external/job/University-of-Nevada-Reno---Main-Campus/Postdoctoral-Scholar---Psychology_R0128870-1)

### **Post Doc Research Fellowship**

The Child Health Evaluative Sciences (CHES) program is recruiting a **Post-Doctoral Research Fellow** to work in collaboration with a team of Investigators on CIHR and Genome Canada-funded projects related to the clinical utility and cost consequences of emerging genomic technologies. Advanced skills in statistical analyses and measurement science (i.e. development and assessment of validity and reliability of novel measurement tools) are essential. The fellow will be working at the Hospital for Sick Children within Dr. Robin Hayeems' research group and in collaboration with a diverse team of motivated researchers and graduate students with expertise in health services research, health policy, health economics, and measurement science. The fellow will review relevant literature, assist in the development of the analytical design, conduct analyses in a reproducible manner and lead the reporting of these analyses. For more information and to apply visit:

[https://career.sickkids.ca:8001/psc/CRPRD/CAREER/HRMS/c/HRS\\_HRAM\\_FL.HRS\\_CG\\_SEARCH\\_FL.GBL?Page=HRS\\_APP\\_SC\\_HJOB\\_FL&Action=U&](https://career.sickkids.ca:8001/psc/CRPRD/CAREER/HRMS/c/HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=HRS_APP_SC_HJOB_FL&Action=U&)

# Happy Monday!

Congratulations to everyone included in the Monday Memo! The department recognizes your hard work and dedication. Keep it up!



Bugg (courtesy of Lila Berger)

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Do you have something you would like to include in the Monday Memo newsletter? Please send it to [samina.javeed@ucalgary.ca](mailto:samina.javeed@ucalgary.ca) before Thursday at noon.

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<https://arts.ucalgary.ca/psychology/news/monday-memo>

For your pet to be featured in the Monday Memo, please email: [dana.watts@ucalgary.ca](mailto:dana.watts@ucalgary.ca)

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