



UNIVERSITY OF
CALGARY

MONDAY MEMO

April 20 & 27, 2020

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DEPARTMENT NEWS

HIGHLIGHTED PUBLICATION



Foster, S., Christiansen, T., & **Antle, M. C.** (2019). Modeling the Influence of Synaptic Plasticity on After-effects. *Journal of biological rhythms*, 34(6), 645-657. doi: 10.1177/0748730419871189



While circadian rhythms in physiology and behavior demonstrate remarkable day-to-day precision, they are also able to exhibit plasticity in a variety of parameters and under a variety of conditions. After-effects are one type of plasticity in which exposure to non-24-h light-dark cycles (T-cycles) will alter the animal's free-running rhythm in subsequent constant conditions. We use a mathematical model to explore whether the concept of synaptic plasticity can explain the observation of after-effects. In this model, the SCN is composed of a set of individual oscillators randomly selected from a normally distributed population. Each cell receives input from a defined set of oscillators, and the overall period of a cell is a weighted average of its own period and that of its inputs. The influence that an input has on its target's period is determined by the proximity of the input cell's period to the imposed T-cycle period, such that cells with periods near T will have greater influence. Such an arrangement is able to duplicate the phenomenon of after-effects, with relatively few inputs per cell (~4-5) being required...[Read more here](#)

RESEARCH NOTES AND ACTIVITIES

- Foster, S., Christiansen, T., & **Antle, M. C.** (2019). Modeling the Influence of Synaptic Plasticity on After-effects. *Journal of biological rhythms*, 34(6), 645-657. doi: [10.1177/0748730419871189](https://doi.org/10.1177/0748730419871189)
- Moshirpour, M.**, Nakashima, A. S., Sehn, N., Smith, V. M., **Thackray, S. E.**, **Dyck, R. H.**, & **Antle, M. C.** (2020). Examination of zinc in the circadian system. *Neuroscience*, 432, 15-29. doi: [10.1016/j.neuroscience.2020.02.016](https://doi.org/10.1016/j.neuroscience.2020.02.016)
- Lukacik, E. R., & **Bourdage, J. S.** (2020). I like what I see: Attraction to organizations and Honesty–Humility. *Personality and Individual Differences*, 161, 109930. doi: [10.1016/j.paid.2020.109930](https://doi.org/10.1016/j.paid.2020.109930)
- Madigan, S.**, **McArthur, B.**, Anhorn, C., Eirich, R., & Christakis, D. (2020s). A Meta-Analysis of the Risks and Benefits of Screen Use and Child Language Skills. *JAMA Pediatrics*. doi: [10.1001/jamapediatrics.2020.0327](https://doi.org/10.1001/jamapediatrics.2020.0327)
- Reed, E. N., Landmann, J., Oberoi, D., Piedalue, K. A. L., Faris, P., & **Carlson, L. E.** (2020). Group versus Individual Acupuncture (AP) for Cancer Pain: A Randomized Noninferiority Trial. *Evidence-Based Complementary and Alternative Medicine*, 2020. doi: [10.1155/2020/7209548](https://doi.org/10.1155/2020/7209548)
- Callahan, B. L.** (2020). On the misalignment between research and clinical practice in psychology: An example from the Alzheimer’s and dementia field. *Canadian Psychology/Psychologie canadienne*, 61(2), 127–139. doi: [10.1037/cap0000204](https://doi.org/10.1037/cap0000204)

PSYCHOLOGY IN THE NEWS

Dr. Kelly Schwartz in 660 News “[Parents' stress rises as they have to teach kids; An expert weighs in](#)”

Dr. Vinay Bharadia in the Victoria Times Colonist “[Isolation bad for humans wired to be social, neuroscientist says](#)”

Dr. Joshua Madsen & Dr. Lianne Tomfohr in UToday “[UCalgary Psychology Clinic deploys telehealth technology to keep its doors open](#)”



VOLUNTEER AND JOB POSTINGS

For Undergraduate Students

Volunteer Research Assistant Needed

The Healthy Families Lab is in search of an undergraduate student who can assist with the organization and management of study data over the Spring/Summer. The time commitment would be approximately 6-8 hours a week. We are especially interested in help from students who able to speak/read/write in French and have experience with REDCap and/or Qualtrics. If you are interested, please complete the full lab application that can be found here: <https://www.healthyfamilieslab.com/join-the-lab-2>. Please also include a *resume/CV and cover letter and email all materials to dhillak@ucalgary.ca*

For Graduate Students, Faculty, & Staff

Masters in Experimental Psychology with Specialization in Wearable Technology

The Healthy Families Lab at the University of Calgary is advertising for a **MSc or PhD student** in an experimental psychology with an interest in exercise and sleep during the transition to parenthood. The student would become part of an innovative line of research investigating interventions to improve and preserve health behaviours (e.g., sleep and exercise) during the transition to parenthood and the role of digital and wearable technology in both assessment and health promotion. Primarily supervised at the University of Calgary, the student would have the opportunity to be a part of the wearable technology program and to collaborate with the Behavioural Medicine Lab at the University of Victoria.

Interested students are encouraged to reach out to Dr. Tomfohr-Madsen for more details. <https://www.healthyfamilieslab.com/>

VOLUNTEER AND JOB POSTINGS Continued...

9 month Limited Term Appointment at St Francis Xavier University

The **Department of Psychology at St. Francis Xavier University** is seeking applications for a 9 month limited term appointment at the rank of Assistant Professor or Lecturer commencing September 1, 2020. Preference will be given to candidates with a completed Ph.D. We are looking for instructors with experience or ability to teach Introductory Psychology (PSYC 101: Psychology as a Natural Science; PSYC 102: Psychology as a Social Science and Profession). A summary of teaching experiences and interests and a CV should accompany the letter of application. This position is subject to final budgetary approval. Consideration of applications will begin **May 4, 2020**. Applications will be reviewed until the position is filled.

Electronic submission of a curriculum vitae, letter of application, teaching and research summaries, and the names, addresses (including email) and telephone numbers of three (3) references should be sent to Dr. Peter McCormick, Chair, Department of Psychology, pamccorm@stfx.ca. Phone (902) 867-3926, Fax (902) 867-5189

9.5 month limited term appointment in the area of Social/Applied Psychology

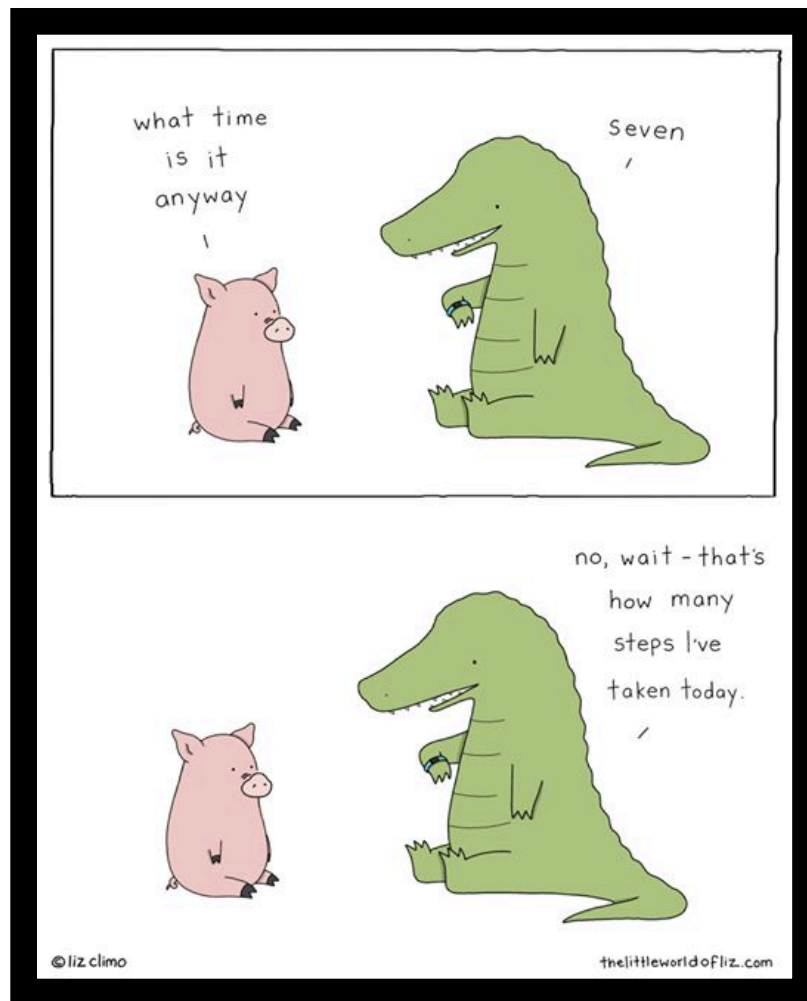
Position # 21115 CLT 9.5 months – The Department of Psychology invites applications for a 9.5 month contractually limited term position at the Assistant Professor level, beginning August 1, 2020. Qualifications for the position include a Ph.D. (or ABD) in Psychology with expertise in the areas of social/applied psychology, with an ability to teach Social Psychology, two sections of Introductory Psychology 2 (Applied areas) and two other courses from the following list to be determined in consultation with the Department Head: Human Sexuality, Forensic Psychology, Industrial/Organizational Psychology, Health Psychology, or Social Cognition. This position is subject to budgetary approval. Closing Date: May 15, 2020

Applications must include a letter of application describing teaching and research experience, any evidence of teaching effectiveness, and an up-to-date curriculum vitae including the names, addresses, phone numbers, and e-mail addresses of three people who will provide letters of reference. Potential candidates shall send the application package and arrange to have three letters of reference sent (electronically is acceptable) to:

Dr. Darlene Brodeur, Department Head c/o Ms. Denise Bonnell Department of Psychology Acadia University Wolfville, NS B4P 2R6
Phone: (902) 585-1301 Facsimile: (902) 585-1078 Email: Denise.bonnell@acadiau.ca or Darlene.brodeur@acadiau.ca

Happy Monday!

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



Do you have something you would like to include in the Monday Memo newsletter? Please send it to pnguy@ucalgary.ca before Thursday at noon.

Department of Psychology

University of Calgary

**Administration Building,
Room AD 255**

<https://psyc.ucalgary.ca/home/monday-memo>

Phone: (403) 220-3600

Fax: (403) 282-8249