

REALISE *the News* – February 2019

IN THIS EDITION:

1. Call for innovators for the NeuroNexus spring 2019 hackathon
2. Upcoming HBI REALISE training modules
New module added: A special opportunity for trainees who would like to strengthen their science writing skills: **A Reader-Centred Approach to Clear and Effective Science Writing and Editing**. This 2-day intensive course will be facilitated by Margaret Chandler, an experienced instructor, author, and founder of [Green Fuse Inc.](#) See below for more information.
3. Other UCalgary workshops, events, and seminars
4. HBI REALISE community outreach opportunities

CALL FOR INNOVATORS FOR THE NEURONEXUS SPRING 2019 HACKATHON



NeuroNexus is looking for innovators to address challenges in brain science and mental health. During the program, you will work with a multidisciplinary team to address a specific problem in brain science and mental health that interests you. You'll get to apply your knowledge and learn new skills, collaborate with individuals outside your field, and develop a functional prototype with a direct application and potential

business opportunity. Projects could be anything from the development of novel hardware and software tools to simplify and accelerate research, computational models of neural systems, and neurotechnologies. Apply as an Innovator by March 22, 2019 at <https://www.innovation4health.com/neuronexus>.

UPCOMING HBI REALISE TRAINING MODULES

To sign up for any of the following modules:

1. Go to the **REALISE Intranet Site** at <https://ecs.ucalgary.ca/faculty/medicine/realise> and enter your UCalgary username and password
2. Navigate to the **REALISE Calendar** and click on the module you'd like to register for
3. Click **Register** in the top left corner, then **Start**

Adobe Design Fundamentals in Research

Part 1: February 14, 2019 | 3 – 4:50 pm | Location: HSC O1501 **only one spot left**

Part 2: February 26, 2019 | 3 – 4:50 pm | Location: HSC O1501

Presenters: Brooke Belanger and Aaron Lanz

Module in brief: A two-part seminar on how to utilize Adobe Illustrator effectively for visual representations of research. These modules will teach trainees how to arrange posters effectively and create infographics to illustrate their work. Participants will use icons, words and images in an eloquent and visually appealing way to communicate their ideas to different target audiences. Part 1 of the module series (February 14) will focus on posters using both Illustrator and PowerPoint. Part 2 of the module series (February 26) will focus on infographics using Adobe Illustrator. Participation in Part 2 is optional, but it is strongly recommended that trainees attend Part 1 before attending Part 2.

Balancing Life in Graduate School

February 20, 2019 | 2 – 3:30 pm | Location: HSC O1500

Presenter: Jennifer Thannhauser

Description: Feeling stressed? Balancing life in grad school can be challenging. This interactive session will help you learn how to set priorities, deal with imposter syndrome and the inner critic, and practice self-compassion. Facilitated by Dr. Jennifer Thannhauser, PhD, RPsych, a counsellor at the UCalgary's SU Wellness Centre, this session will give you the tools you need to balance your life more effectively.

Introduction to EEG and ERP Research

February 25, 2019 | 10:30 am – 2:30 pm* | Location: HSC O1501

* Lunch break from 12-1pm. Lunch not provided.

Presenters: Dan Pittman and Fil Cortese

Module in brief: A two-part session, comprised of a lecture and hands-on component, designed to acquaint trainees with encephalography (EEG) and event-related potentials (ERPs). Trainees will learn about the theories underlying EEG/ERP recordings and how to collect EEG/ERP data correctly. The session will provide a hands-on tutorial on how to analyze EEG/ERP data, perform statistical analysis of EEG/ERP data, and will include an overview of advanced EEG/ERP analysis topics such as wavelet and source analysis.

New HBI REALISE and ACHRI are pleased to offer a special on-site workshop designed to help trainees improve their science writing and editing skills. This 2-day intensive course will be facilitated by Margaret Chandler, an experienced instructor, author, and founder of [Green Fuse Inc.](#) Note: space is limited and there is an application procedure in place.

A Reader-Centred Approach to Clear and Effective Science Writing and Editing

March 4 and 11, 2019 | 9:00 am - 4:30 pm | Location: TBC

Facilitator: Margaret Chandler

Module in brief: This 14-hour workshop is an excellent opportunity for participants to strengthen their science writing and editing skills and become more confident and efficient writers. The workshop will be an engaging and comprehensive mix of mini-lectures and presentations, discussions, and individual and group practice.

Participants will review writing basics (e.g., grammar, punctuation, and mechanics); strengthen their ability to write clearly, concisely, and efficiently; learn some of the key strategies and tools that professional editors use; and leave with resources to help them continue to refine their writing skills.

Participants will receive a copy of Margaret Chandler's book, *Good Writing Is Good Business: Your go-to guide to stylish and successful business writing.*

Design Thinking and Rapid Prototyping Module Series

The Design Thinking and Rapid Prototyping Module Series will provide graduate students with a hands-on introduction to the design thinking process and rapid prototyping techniques. The series is part of a larger initiative involving three real-world projects sourced from basic science and clinical research laboratories in the HBI, see attached for more information.

The following rapid prototyping skill development sessions will focus on structure, function and control are open to all REALISE students. *Space is limited so please register early.*

Skill development I – Structure

March 14, 2019 | 3 – 5 pm | Location: HSC O1504/O1506

In this session, students will be introduced to CAD modeling, structural analysis and fabrication (3D printing, machining) techniques. With this knowledge, students will be able to design and print simple structures/components for use in the lab setting.

Skill development II – Function

March 21, 2019 | 3 – 5 pm | Location: HSC O1504/O1506

In this session, students will be introduced to electrical circuits, basic electronics and common sensors. With this knowledge, students will be able to select sensors relevant to their needs in the lab setting, and build simple circuits to extend the functionality of existing tools in the lab.

Skill development III – Control

March 28, 2019 | 3 – 5 pm | Location: HSC O1504/O1506

In this session, students will be introduced to digital logic, sequential programming and simple state machines. With this knowledge, students will be able to communicate with simple microcontrollers and program them to realize automation needs in the lab.

Writing Bias

March 19, 2019 | 1 – 3 pm | Location: HSC 1405B

Presenter: Jenna Slobozian

Module in brief: The session will look at gendered language from two perspectives; the first examining the differences and similarities in the ways in which men and women write and the second being the differences and similarities in the way men and women are written about. The session will cover topics such as writing of grant/fellowship/scholarship applications as well as letters of support or recommendation.

Supported Conversation for Adults with Aphasia (SCA™) Workshop

March 29, 2019 | 9 am – 12 pm | Location: HSC 1500

Presenter: Heather A. Tomlinson, M.Sc. (A), R.SLP, S-LP (c)

Workshop in brief: Aphasia (pronounced “a-fay-zha”) is an acquired communication disorder, typically the result of a stroke or brain injury, which affects peoples’ ability to speak, understand, read and/or write. By limiting individuals’ ability to engage in conversation, aphasia impacts all aspects of life including our roles and relationships with family, friends and work colleagues. This interactive workshop will help participants understand what aphasia is and how to communicate with adults with aphasia.

OTHER UCALGARY WORKSHOPS, EVENTS, AND SEMINARS

Graduate Science Education

[Three Minute Thesis \(3MT\) - Registration now open](#)

Do you want to practice your communication skills? Do you want to build your network? Do you want to learn about cool research being done in different departments across campus? Compete in UCalgary3MT and you'll get all this and more.

[LinkedIn 101: The Basics](#) March 1, 2019 | 2 – 4 pm

Workshops @ Health Sciences Library

[Project Management for Research Projects](#) February 13, 2019 | 10 – 11 am

[EndNote for Systematic Reviews](#) February 27, 2019 | 10 – 11:30 am

[Systematic Review Searching](#) February 28, 2019 | 1 – 4 pm

[Searching MEDLINE Systematically](#) March 5, 2019 | 2 – 3 pm

[EndNote Desktop](#) March 7, 2019 | 2 – 3:40 pm

[EndNote Web](#) March 12, 2019 | 12:30 – 1:30 pm

Other Upcoming Events

[W21C Research and Health Innovation Day](#) March 5, 2019 | 8:30 am – 1:30 pm

The W21C will be hosting an event to highlight the research and partnerships that inspire us to make health care better.

[Save the date: 27th Annual Cumming School of Medicine Symposium](#) May 3, 2019

For 27 years, the Cumming School of Medicine Symposium has gathered top scientists from around the world who are making a difference in health-related sciences. From personalized medicine development to global HIV prevention initiatives, the Symposium aims to encompass a diverse range of speakers that will be of interest to students, staff, and faculty of the various departments and institutes within the Cumming School of Medicine.

HBI REALISE COMMUNITY OUTREACH OPPORTUNITIES

Would you like to share your knowledge to help out the Calgary community?

The HBI REALISE Community Outreach Program provides HBI trainees with the opportunity to engage with the public in meaningful ways while honing their science communication and public presentation skills. ATB Financial and the Schizophrenia Society of Alberta (SSA) are looking for trainees to provide presentations on any of the following topics: stress, addiction, mental health, microbiota, addictions & mental health, cannabis & mental health, neurostimulation, pain, prebiotics/probiotics, dementia, and movement disorders.

Please contact realise@ucalgary.ca for more information.