Thesis Defense Seminars

**CPSC** Msc Final Seminar: “Utilizing Natural Language Processing to Produce and Present Film: An Exploratory Analysis” by Kyle Jorgensen (Supervisor: Dr. Mea Wang) on **Monday December 12, 2022 at 10:00am** on Zoom. Please contact the Computer Science Department for zoom details (cpsc@ucalgary.ca)

**BISI** PhD Final Seminar: “Leishmania donovani Cathepsin B: Impact on Proteins and ncRNAs of Small Extracellular Vesicles, and on Infection Metabolism” by Camila Meira (Supervisor: Dr. Lashitew Gedamu) on **Friday December 16, 2022 at 10:30am** on Zoom. Please contact the Biological Sciences Department for zoom details (biosci@ucalgary.ca)

**GEOS** MSc Final Seminar: “The effects of water-rock interactions on the permeability of the Precambrian Basement in Southern Saskatchewan” by Taylor Smith (Supervisor: Dr. Benjamin Tutolo) on **Tuesday December 20, 2022 at 1:00pm** in ES 136

**CMD** PhD Final Seminar: “The Teaching Game: Integrating HCI and SoTL By Adapting Video Game Research Methods” by D’Arcy Norman (Supervisor: Dr. Ehud Sharlin) on **Thursday December 22, 2022 at 1:00pm** Hybrid in Taylor Institute - Room 110 or on Zoom. Please email sci.ad.admin@ucalgary.ca for zoom info

Seminars & Events

**GEOS** Rundle Technical Talk: “Mineral Exploration Technical Talk” by Marcus Adam (Senior Geologist, Seabridge Gold) Monday, **December 12, 2022 at 4:00pm** in ES 136. See attached pdf for more information.

**MTST** PIMS Lunchbox Lecture: “Spiking Networks and Neuromorphic Computing” by Dr. Wilten Nicola (Department of Cell Biology & Anatomy) on **Thursday, December 15, 2022 at 12:00pm** in Room 416, University of Calgary Downtown Campus, 906 8 Avenue SW. Please contact Carrie Ragan if you need bus tickets for transportation. Advance registration required. Please register by Sunday December 11, 8pm.

Opportunities

**Reminder: Campus Alberta Small Business (CASBE) program Stream II** Alberta Innovates has launched the 2022-23 CASBE program with two new matching opportunities: 1. NSERC Alliance Quantum Grants, and 2. Approved NSERC Applied Research and Technology Partnership grants (ARTPs) that align with the Alberta Innovates CASBE requirements. Although this is a continuous intake program, potential applicants should submit their applications as soon as possible. RSO Contact: Katie Cupello

**Reminder: Simons Foundation Neuroscience Collaborations – Call for Vision Statements 2023** The Simons Foundation seeks to create strong collaborations and foster the cross-pollination of ideas between investigators, as these interactions often lead to unexpected breakthroughs. The current call seeks vision statements to identify new, emerging breakthrough areas of neuroscience that are poised for high-impact funding by the Simons Foundation. The call seeks bold and cutting edge, idea-generating research that focuses on basic principles of brain function and may be overlooked or too risky for other funding organizations. The Simons Foundation will offer an informational webinar on **Monday, December 12** from 11am-noon MT

Vision statements may be submitted beginning January 11, 2023, due to the funder in early March. Invitations to full proposal will be issued in June 2023. Notify Research Services at ipd@ucalgary.ca if interested in applying.
Reminder: Genome Canada: Genomic Applications Partnership Program (GAPP) April 2023 (Round 25) Note: the funding deadline calendar posting for GAPP Round 25 has been updated to reflect Genome Canada’s revised deadlines
Genome Canada, in partnership with Genome Alberta (GAB), is seeking proposals for the Genomic Application Partnership Program (GAPP). The GAPP funds downstream research and development projects driven by challenges and opportunities identified by end-users such as industry, government, not-for-profits, or other receptor organizations. This is an ongoing competition and Expressions of Interest for Round 25 of the competition must be submitted to Genome Alberta by December 12th, 2022, for submission to Genome Canada in December. Interested parties are asked to contact Genome Alberta in advance of providing the EOI for submission, cc’ing ipd@ucalgary.ca to engage University of Calgary Research Services support.

Reminder: Innovation for Defence Excellence and Security (IDEaS) Program advances promising technology quickly through a phased approach, and the present opportunity (Component 1A) helps to establish the innovativeness and impact of a solution and its ability to address a specific defence and security challenge. Innovators have up to six months to refine and advance their product and showcase it to Department of National Defence/Canadian Armed Forces.
RSO Internal Deadline: December 15, 2022 - 12:00 PM; RSO Contact: Tempest Emery

Reminder: Weston Family Foundation Homegrown Innovation Challenge
In a climate-changing world, Canada’s high dependence on imported fresh fruits and vegetables make it vulnerable to food systems disruption. By solving the interconnected challenges that currently prevent out-of-season production at scale, the Homegrown Innovation Challenge will catalyze a range of solutions relevant to a broad array of fruit and vegetable crops in Canada and around the world.
Shepherd Phase - Due December 20, 2022
The top 10 innovation teams selected by an independent judging panel will be awarded up to $1 million each across an 18 month period to develop and demonstrate a small-scale proof of concept of their system, generating evidence and learning to be assessed for progression to the Scaling Phase. Solutions should be reaching Technology Readiness Level 5 or higher by the end of the Shepherd Phase (when being submitted to the Scaling Phase).
RSO Internal Deadline: December 15, 2022 at noon; For more information please contact Stephanie Patrick

Reminder: Canadian Space Agency: Enhancing Industry/University Collaboration with CSA Funding for Highly Qualified Personnel Training (EIUC) aims to support research projects that will contribute to the development of new scientific knowledge and space technologies at Canadian universities for a project that has received a grant under the NSERC - Alliance Grants Program. Each project could be eligible to receive a yearly amount matching the grant received yearly from the NSERC Alliance program, up to $100,000 per year for a maximum duration of 5 years. To be eligible, projects must demonstrate their link to one of the priorities identified in Space Strategy for Canada or the recently announced Canada’s Strategy for Satellite Earth Observation, or must further the research in the field of quantum technology in the space sector. The CSA may to prioritize projects related to the following research disciplines: quantum technology in the space sector, adapting to climate change with space-based data, innovative technology in the space sector including advanced robotics, deep space food, deep space health and understanding space weather. Deadline is December 16, 2022 to submit your application to be considered in the first round of funding. Please note that an RFAA will be used for institutional approval for this competition. Click here to access the EIUC AO and information on how to apply.

Reminder: The IMU Committee for Women in Mathematics (CWM) invites proposals for funding of up to €3000 for activities or initiatives taking place in 2023, with deadline December 23, 2022. Proposals should aim at establishing or supporting networks for women in mathematics, and/or organizing research workshops (fostering women collaborations), and/or other ideas for researching and/or addressing issues encountered by women in mathematics. See attached information.
Opportunities – Awards

For any award, including those listed below, if you are planning on submitting a nomination for yourself or someone else, and would like support in developing the nomination package, please contact Danielle Demiantschuk as early as possible. Other opportunities can be found on the FOS awards site, and in the RSO awards database.

**Calgary Awards**, offered by the City of Calgary, celebrate and recognize outstanding achievements and contributions made by Calgarians. There are four main categories of awards. The next round will open on January 4th. [Details here](#). **Deadline: February 1, 2023.**

**Emerald Awards**, celebrate individuals who are addressing environmental and climate change issues in Alberta. There are fifteen categories. [Details here](#). **Deadline: February 14, 2023.**

**Awards and Medals, Royal Society of Canada**. The RSC hosts over 20 prestigious awards in recognition of outstanding achievement. The next call will open in January. [Details here](#). **Deadline March 31, 2023.**

Opportunities – Health Sciences

**2022 Future Leaders in Canadian Brain Research** aims to accelerate novel and transformative research that will fundamentally change our understanding of nervous system function and dysfunction and their impact on health. The ultimate goal is to reduce the social and economic burden of neurological and mental health illnesses through prevention, early diagnosis, and treatment. Open to early-career investigators within five years of starting their first independent research position.

Research Services Office Internal Pre-Application Deadline: January 11, 2023 - 12:00 PM
RSO Contact: Chantal Lemire

**Cancer Research Institute: 2023 Clinic and Laboratory Integration Program (CLIP)** supports preclinical and translational research that can be directly applied to optimizing cancer immunotherapy in the clinic. CLIP grants are awarded to qualified scientists exploring clinically relevant questions aimed at improving the effectiveness of cancer immunotherapies. This call provides dedicated funding aimed at improving outcomes for two rare cancers: gastroesophageal cancer and chordoma. Letters of Intent are requested.

Research Services Office Internal Pre-Application Deadline: January 11, 2023
RSO Contact: Chantal Lemire

**AHS Neurosciences, Rehabilitation & Vision Strategic Care Network (NRV SCN) 2023 Research Grant Competition: Multiple Sclerosis, Parkinson’s Disease & Quality of Care in Alberta** will support research that will promote the recognition of, or directly address, the gaps and challenges recognized by the patient, community, research, and clinical stakeholders who participated in the 2022 NRV SCN MS & PD Research Planning Summit (June 17, 2022). Projects must have an area of research that includes one or more of the following themes of health research: clinical, health services, and/or population and public health.

RSO Internal Deadline (full application): February 24, 2023 at noon
RSO contact Katie Cupello

**Reminder: Alex’s Lemonade Stand Foundation — RUNX1 Early Career Investigator Program** promotes the establishment of a new generation of basic and translational scientists interested in tackling inherited hematologic malignancy predisposition disorders with a focus on RUNX1-familial platelet disorder. The RUNX1 Early Career Investigator grant is designed to fund research investigating strategies that will lead to the development of therapies that will prevent the transition from pre-malignancy to overt hematologic malignancy in patients with RUNX1-FPD. Applicants must have research experience working in, and a deep understanding of, normal or malignant hematopoiesis and/or immunology.

RSO Internal Deadline: December 16, 2022 at noon
Opportunities – Social Sciences

Reminder: 2023 Social Sciences and Humanities Research Council Insight Development Grant Competition supports research in its initial stages. The grants enable the development of new research questions, as well as experimentation with new methods, theoretical approaches and/or ideas. Funding is provided for short-term research development projects of up to two years that are proposed by individuals or teams. SSHRC welcomes applications involving Indigenous research, as well as those involving research-creation.

RSO Internal Deadline: Monday January 30, 2023 at noon
RSO Contact: Stephanie Patrick

Opportunities – Postdocs and Graduate

Faculty of Science Curriculum Review Support Graduate Research Assistant, Faculty of Science (3 Positions)

Under the supervision of the Associate Dean Teaching and Learning, the graduate student research assistant will provide research support to the Faculty of Science curriculum review and mapping project. This includes, but is not limited to, conduct environmental scans, literature review, and needs assessments. This position will work remotely, with options for regular on-site and/or remote meetings with the research team and supervisors. For more information visit the job posting.

Mitacs The Canadian Science Policy Fellowship (CSPF) is now accepting applications from PhD holders interested in a year-long policy position, starting in September 2023, with a Canadian government host office. Approved fellows receive an annual salary of $70,000 to $80,000 from their host offices, as well as professional development and networking opportunities facilitated by Mitacs. Application deadline: February 1, 2023 (11:59 p.m. PT) For more information, please visit Mitacs website

W2023 Special Topics Courses for Science Grad students

CPSC 601.30 High Performance Scientific Computing and Visualization will be offered (Tu-Th 9:30 – 10:45, ST 057). A CPSC course that is open to anyone who knows how to program in C/C++. Modern scientific computing and data science workflows are increasingly relying on the capabilities of parallel and distributed computing architectures for high performance. This course will introduce students to data management principles and programming paradigms that are central to these workflows. Students will be exposed to multithreading in C++, GPGPU computing with CUDA, and programming distributed memory architectures via the Message Passing Interface (MPI). The focus will be on the use of these technologies to accelerate the performance of core techniques and to handle large datasets. Use cases will be drawn from various areas such as numerical linear algebra, image processing, machine learning, computer graphics, and data visualization. Additionally, students will be able to explore their own domain of interest via case studies and a term project. For more information please contact Usman Alim
SCIE 507.33 Emerging Technologies and Entrepreneurial Thinking in Evolving Energy Systems will be offered (Tu 2:00 – 4:45 pm, ENF 334). Open to graduate students in any program in the Faculty of Science. For more information please contact David Eaton.

GEOP 699.01 Global Seismology will be offered (Tu-Th 11:00-12:15). In addition to geophysics grad students with an interest in seismology, this course may be of interest to mathematically-inclined geology grad students who have an interest in earthquakes and/or the Earth’s deep interior. For more information please contact David Eaton.

Science Research and Innovation Newsletter (SRIN) comes out every Monday. If you have a seminar notice, congratulations or awards for the newsletter please submit it by noon on Friday to sci.borg@ucalgary.ca to ensure it is added.