

MEMORANDUM

DESTINATAIRE / TO: Craig Kuziemsky

EXPÉDITEUR / FROM: Anne-Julie Houle, Manager, Research Enterprise

DATE: June 17, 2019

OBJET / RE: School of Management Student Research Grants (SMRG) - Amendment

C.C. H. Smith, M. Brabant, F. Payant

I am pleased to inform you that the Research Committee has approved your request for a SMRG Student Research funding in the amount of **\$2,000** for the project *Improving colorectal cancer screening in northern Canada using computer-simulated simulation modelling* with **Heather Smith**, student in MSc in Health Systems Program, due to the fact that Heather Smith has external funding. The requested funding will be distributed this way:

- Stipend for Heather Smith: \$2,000 (You will receive more details about this later on.);

As per the SMRG guidelines, as you have external funding, a top-up contribution equivalent to 50% (\$2,000) of the grant awarded will be expected on the student stipend.

According to the information provided, your project is scheduled to begin in March 2019, and end in April 2020. Unless an extension is requested and approved prior to February 2020, any remaining funds from this grant will be returned to the Telfer School of Management Research Fund. Additionally, this funding is **not to be used for salary** – it is for expense reimbursement (conference travel, equipment, software, etc.).

Please note that you will have to submit a RE Form for this project.

As per the SMRG guidelines, please note that you are expected to produce a MSc thesis and possibly an academic publication or conference presentation. In any deliverable please acknowledge Telfer School Research Grant support.



Anne-Julie Houle, Manager, Research Enterprise

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Agréments
Accreditations

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(<http://www.nserc-crsng.gc.ca>)



Natural Sciences and Engineering
Research Council of Canada

Conseil de recherches en sciences
naturelles et en génie du Canada



(<http://www.nserc-crsng.gc.ca>)

2019 Research Grants Competition - Results by Institution

Ottawa						
Applicant Name	Program	Title	EG	Term	Awarded Amount	
Addison, Christina Department Biochemistry, Microbiology and Immunology	RGPIN	miRNA control of angiogenesis	1501	5	\$32,000.00	
Alarcon, Emilio Department Biochemistry, Microbiology and Immunology	RTI	Automated Peptide Synthesizer System for Accelerating discovery of Nanomaterials, Sensors, and Bioactive Compounds	1611	1	\$146,765.00	
Arissian, Ladan Department Physics	RGPIN	Dual comb gyroscope	1505	5	\$19,000.00	
Baetz, Kristin Department Biochemistry, Microbiology and Immunology	RGPIN	Can engineering protein subcellular localization protect yeast cells from toxic fermentation inhibitors?	1501	5	\$82,000.00	
Baker, Ralph Department Chemistry	RGPIN	Base Metal Bifunctional Catalysis	1504	5	\$94,000.00	
Baranova, Elena Department Chemical and Biological Engineering	RGPIN	Electrochemical promotion of nano-structured catalysis for green house gas mitigation	1511	5	\$33,000.00	
Bataille, Clement Department Earth Sciences	RGPIN	Investigating climate controls on weathering processes in modern and ancient river systems	1506	5	\$30,000.00	
Ben Amor, Sarah Department Telfer School of Management	RGPIN	Une approche multicritère pour décisions robustes intégrant l'apprentissage des préférences en contexte d'imperfections de l'information	1509	5	\$26,000.00	
Bennett, Steffany Department Biochemistry, Microbiology and Immunology	RGPIN	Advancing Bioinformatic Technologies for Lipidomic Discovery: Lipid Identification, Pathway Analysis, Network Analysis	1501	5	\$51,850.00	
Berini, Pierre Department Electrical Engineering and Computer Science , School of	RTI	Nano-patterning and visualization engine for a focused ion beam system	1610	1	\$113,000.00	
Boddy, Christopher Department Chemistry	RGPIN	Harnessing synthesis and biosynthesis to access complex molecules	1504	5	\$64,000.00	
Boukerche, Azzedine Department Electrical Engineering and Computer Science , School of	RGPIN	Vehicular Clouds: Enabling Next Generation Connected and Autonomous in-Vehicles Experiences	1507	5	\$55,000.00	
Bourgault, Yves Department Mathematics and Statistics	RGPIN	Numerical methods for coupled problems involving reaction-diffusion equations	1508	5	\$31,000.00	
Burkett, Kelly Department Mathematics and Statistics	RGPIN	Ancestry-based statistical methods for genetic studies	1508	5	\$18,000.00	
Chan, Laurie Department Biology	RGPIN	Advances in Mercury Toxicology and Risk Assessment	1502	5	\$96,000.00	
Chartier, Sylvain Department Psychology, School of	RGPIN	Development of a Bidirectional Associative Memory for Supervised, Unsupervised and Reinforcement Learning	1502	5	\$33,000.00	

Chen, Hsiao-Huei Department Medicine, Faculty of	<u>RGPIN</u>	How early life experience alters microglia function in shaping hypothalamic circuits.	1502	5	\$40,000.00
Corkum, Paul Department Physics	<u>RGPIN</u>	Linking Attosecond Science in Gases and Solids	1505	5	\$61,000.00
Cvetkovska, Marina Department Biology	<u>RGPIN</u>	Using Antarctic green algae to study photosynthesis in extreme environments	1502	5	\$28,000.00
Davidson, Patrick Department Psychology, School of	<u>RGPIN</u>	Cognitive and neural bases of episodic memory	1502	5	\$33,000.00
D'Costa, Vanessa Department Biochemistry, Microbiology and Immunology	<u>RGPIN</u>	Mechanisms of Host Cell Modulation By Bacterial Effector Proteins	1501	5	\$30,000.00
Dub��, Marc Department Chemical and Biological Engineering	<u>RGPIN</u>	Sustainable Polymer Reaction Engineering	1511	5	\$33,000.00
Ekker, Marc Department Biology	<u>RGPIN</u>	Functional specificity of paralogs in a family of developmental genes.	1501	5	\$42,000.00
Fennell, Christopher Department Psychology, School of	<u>RGPIN</u>	Word Segmentation Across Two Languages Via Statistical Learning	1502	5	\$16,569.00
Forrest, Jessica Department Biology	<u>RGPIN</u>	Bee ecology and evolution in the context of global change	1503	5	\$47,000.00
Gibbings, Derrick Department Cellular and Molecular Medicine	<u>RGPIN</u>	Mechanisms of RNA Packaging into Exosomes	1501	5	\$58,000.00
Goto, Natalie Department Chemistry	<u>RGPIN</u>	Dynamic processes involved in intramembrane protease activity investigated by solution NMR.	1501	5	\$58,000.00
Groza, Voicu Department Electrical Engineering and Computer Science , School of	<u>RGPIN</u>	Data Acquisition Systems for the Internet of Medical Things	1510	5	\$33,000.00
Hallett, William Department Mechanical Engineering	<u>RGPIN</u>	Fundamental Processes of Solid and Liquid Biofuels Combustion	1512	5	\$27,000.00
Hawrylak, Pawel Department Physics	<u>RGPIN</u>	Synthetic many-body systems in artificially structured materials	1505	5	\$61,000.00
Heshami, Khabat Department Physics	<u>RGPIN</u>	Towards scalable quantum information processing and quantum networks	1505	5	\$29,000.00
Imbeault, Pascal Department Health Sciences, Faculty of	<u>RGPIN</u>	M��tabolisme du tissu adipeux blanc sous influence des polluants organiques persistants et de l'hypoxie	1502	5	\$28,000.00
Karimi, Ebrahim Department Physics	<u>RTI</u>	Resolution Enhancement for a Quantum Microscope	1605	1	\$150,000.00
Kassen, Rees Department Biology	<u>RGPIN</u>	Experimental studies on ecological and genetic complexity in adaptation	1503	5	\$65,000.00
Keillor, Jeffrey Department Chemistry	<u>RGPIN</u>	Chemical Biology of Transglutaminases	1504	5	\$79,000.00
Kenny, Glen Department Human Kinetics, School of	<u>RTI</u>	The Air Calorimeter: an innovative tool for the scientific discovery of the human heat stress response in a warming planet	1602	1	\$144,840.00
Khacho, Mireille Department Biochemistry, Microbiology and Immunology	<u>RGPIN</u>	Mitochondrial dynamics in the regulation of mitochondrial function and oxidative phosphorylation	1501	5	\$37,000.00

Korkusinski, Marek Department Physics	RGPIN	Atomistic engineering of semiconductor nanostructures for quantum information	1505	5	\$33,000.00
Krich, Jacob Department Physics	RGPIN	Enabling high efficiency photovoltaics: from novel materials to effective devices	1505	5	\$34,000.00
Kulkarni, Manisha Department Epidemiology and Community Medicine	RGPIN	Landscape ecology of the deer tick and its associated Lyme disease pathogen	1503	5	\$28,000.00
Kuziemy, Craig Department Telfer School of Management	RGPIN	A System Design Framework for Digital Process Innovation	1507	5	\$28,000.00
Lemaire, Edward Department Mechanical Engineering	RGPIN	Intelligent Mobility Systems	1512	5	\$32,000.00
Lewis, John Department Biology	RGPIN	Dynamics of electric sensing	1502	5	\$55,000.00
Longtin, Andre Department Physics	RGPIN	Neural coding and cellular dynamics	1502	5	\$93,000.00
MAKRAKIS, DIMITRIOS Department Electrical Engineering and Computer Science , School of	RGPIN	Enabling the Design of Advanced Hybrid Bio-Nanonetworks	1510	5	\$28,000.00
Martin, Julien Department Biology	RGPIN	Within-individual variation: plasticity, consistency, genotype-by-environment interaction and hidden genetic variance	1503	5	\$33,000.00
Messier, Claude Department Psychology, School of	RGPIN	Brain plasticity: cellular and metabolic aspects	1502	5	\$47,000.00
Morand-Ferron, Julie Department Biology	RGPIN	Causes and consequences of individual variation in cognition in natural populations	1503	5	\$46,600.00
Murugesu, Muralee Department Chemistry	RTI	High-Pressure Gas Adsorption Analyzer For Clean Energy Technology	1604	1	\$150,000.00
Musgaard, Maria Department Chemistry	RGPIN	Using computer simulations to elucidate ion channel function	1501	5	\$37,000.00
Nganbe, Michel Department Mechanical Engineering	RGPIN	Fabrication and investigation of nano particle, fibre and nanotube multiscale reinforced aluminium matrix composites	1511	5	\$28,000.00
Nistor, Ioan Department Civil Engineering	RGPIN	Protecting infrastructure against flow-entrained debris - a new approach	1509	5	\$63,376.00
Ozturk, Onur Department Telfer School of Management	RGPIN	Exact and approximate solution methods for batch scheduling problems	1509	5	\$26,000.00
Parks, Robin Department Biochemistry, Microbiology and Immunology	RGPIN	DYRK2 co-regulates apoptosis and innate immunity in response to genotoxic stress	1501	5	\$36,000.00
Pelling, Andrew Department Physics	RGPIN	The Mechanobiology of 2D and 3D Multicellular Systems	1501	5	\$69,000.00
Perkins, Theodore Department Biochemistry, Microbiology and Immunology	RGPIN	Improving detection in high-throughput sequencing data with gene/locus-specific models	1507	5	\$41,000.00
Peyton, Liam Department Electrical Engineering and Computer Science , School of	RGPIN	A tool-supported methodology for cloud-based collaborative performance management	1507	5	\$28,000.00
Poulain, Alexandre	RGPIN	Microbial controls of mercury geochemistry	1506	5	\$75,000.00

Department Biology					
Rennie, Colin Department Civil Engineering	RGPIN	River morphodynamics research for flood mitigation	1509	5	\$62,000.00
Richeson, Darrin Department Chemistry	RGPIN	From Fundamental Investigations to Catalysis: New Motifs in Main Group and Transition Metal Complexes	1504	5	\$29,000.00
Rousseaux, Maxime Department Cellular and Molecular Medicine	RGPIN	SUMOylation guides synaptic protein localization and function in mammalian brain development.	1501	5	\$37,000.00
Roy, Damien Department Mathematics and Statistics	RGPIN	Diophantine approximation and transcendental number theory	1508	5	\$21,000.00
Rudner, Adam Department Biochemistry, Microbiology and Immunology	RGPIN	Assembly and function of heterochromatin	1501	5	\$42,000.00
Saatcioglu, Murat Department Civil Engineering	RGPIN	Seismic and Blast Retrofit of Reinforced Concrete and Masonry Buildings	1509	5	\$52,000.00
Savard, Bruno Department Mechanical Engineering	RGPIN	High-fidelity simulations of turbulent combustion relevant to gas turbines and compression ignition engines	1512	5	\$37,000.00
Schneider, David Department Earth Sciences	RGPIN	Applied thermochronology and the timing of brittle-ductile crustal-scale tectonic processes	1506	5	\$61,400.00
Tremblay, Andre Department Chemical and Biological Engineering	RGPIN	Hierarchical 2D/3D nanosheet materials for the production of hydrogen from methane without the formation of CO2 and for water purification.	1511	5	\$28,000.00
Uchida, Thomas Department Mechanical Engineering	RGPIN	Simulation-guided design of wearable assistive devices for improving human mobility	1512	5	\$27,000.00
Wang, Lisheng Department Biochemistry, Microbiology and Immunology	RGPIN	The role of E-cadherin in regulating signalling pathways	1501	5	\$32,000.00
Weck, Arnaud Department Mechanical Engineering	RGPIN	High speed manufacturing of laser-textured surfaces for visible-light plasmon-enhanced CO2 conversion	1511	5	\$28,000.00
Woo, Tom Department Chemistry	RGPIN	Computational high throughput screening methods and data driven materials design	1504	5	\$79,000.00
Zhao, Jiyang Department Electrical Engineering and Computer Science, School of	RGPIN	Advanced 3D Video Processing Technologies: Super-Resolution, Chroma-Keying, Depth-Map Generation, and Quality Evaluation	1510	5	\$28,000.00

Revised Version: addition of \$1000 in August 2019 to bring total to \$3216

August 21, 2019

Dear Heather Smith

Re: Northern Scientific Training Program

The Northern Committee of the University of Ottawa has considered your request for funding under the Northern Scientific Training Program (administered by Polar Knowledge Canada) and is pleased to advise that your project has been awarded funding of up to **\$3216**.

Funds will be administered through the Department of Geography, Environment and Geomatics (GEG). The reclaim process is as follows:

- (1) If you paid for your field expenses personally, then you must complete a "Request for Travel Reimbursement" form and submit original receipts to Nathalie Maras (gegadm@uottawa.ca) in GEG. A refund will be issued to you personally. Forms available at: <http://www.uottawa.ca/financial-resources/accounting/travel-reimbursement-form>
- (2) If your supervisor paid for your field expenses from their account, then your supervisor or department financial administrator must submit a copy of their Travel Reimbursement Request (e.g., from Concur) to Nathalie Maras (gegadm@uottawa.ca) in GEG. Funds will then be transferred directly to your supervisor's account using a journal entry.

A final report on your fieldwork must be submitted via the NSTP website by November 1, together with all requests for reimbursements.

Please refer to the NSTP Program Information Manual for the regulations concerning your use of NSTP funds: <https://www.canada.ca/en/polar-knowledge/fundingforresearchers/nstp-information-manual-2018-2019.html>. It is also the responsibility of the student and supervisor to submit any request of reimbursement ensuring that they follow the University's Policy 21 and Procedure 16-11 guidelines found on the University of Ottawa's website at <http://www.uottawa.ca/administration-and-governance/policy-21-travel-expenses>. Note that no travel advances are available.

We wish you success with your project.

Sincerely,



Dr. Luke Copland
Professor & Chair, Northern Committee

cc: Supervisor

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