Jamie Cassels Undergraduate Research Awards, 2010-2011 – Student Abstracts

Amy Krull, Anthropology  "I will conduct a formal analysis of the recovered material of the sub-Arctic archaeological site of Little John from the summer 2010 field season. I will either be working to identify faunal remains or organizing and analyzing them to provide a larger picture of the prehistoric use of the site KdVo6."

Georgina Lorimer, Anthropology  "This project will be focusing on a collection of ceramics excavated during the Banda Research Project excavations in Ghana. I will be dealing with issues regarding the communities of practice associated with the collection, and specifically questions of continuity and change. This will be done through a focus on the technological styles present in the collection."

Lincoln Foerster, Biochemistry & Microbiology  "The objective is to use x-ray crystallography to determine a potential binding partner for the immunodominant surface protein of Toxoplasma gondii, called Surface Antigen Glycoprotein1 (SAG1), and to study the structure of related surface proteins of other Apicomplexa parasites."

Celina Horn, Biochemistry & Microbiology  "We will be bacterially expressing and purifying the recombinant histone variant H2A.Z, as well as a sequence-specific piece of DNA using chromatographic techniques. We will then use these components to reconstitute nucleosome hybrids consisting of one copy of the canonical histone H2A and one copy of the histone variant H2A.Z. These nucleoprotein complexes will then be characterized using various biochemical and biophysical methods."

Keith Johnstone, Biology  "I will be working on two research projects with Dr. Lum. For the first, I will be conducting preliminary experiments with EF5 staining, a technique that allows imaging of hypoxic regions in live tissues. In collaboration with my laboratory peers, I will use this technique to investigate the role of hypoxia in T Lymphocyte survival in the tumour microenvironment, Memory T Lymphocyte development and the interplay between autophagy and hypoxia in the tumour microenvironment. For my second research project, I will be generating and characterizing a variety of human cancer cell lines that express an inducible shRNA for the essential autophagy gene, ATG5. I will use these cell lines to conduct in vitro and in vivo experiments examining the therapeutic efficacy of autophagy inhibition with conventional chemotherapy for treatment of a diverse array of cancers."

Aimee Kernick, Biology  "Sex differences in the effects of exercise on in vivo synaptic plasticity in rats."

Tracy MacKeracher, Biology  "The mode of sex determination in the splash
pool copepod *Tigriopus californicus* is currently unknown, but has been hypothesized to be polygenic. Polygenix sex determination is theoretically unstable (Rice, 1986), yet huge variation in priary sex ratio exists in the field (Voordouw & Anholt, 2008). Preliminary modeling suggests that moderate levels of migration may allow polygenic sex determination to persist (Bateman, 2008). The goal of my project is to determine whether the degree of dispersal in natural populations of *T. californicus* could maintain a polygenic system under the predictions of the model. I am assessing the level of migration among splash pools by measuring the colonization rate of *T. californicus* into natural pools, and monitoring the subsequent sex ration variation over time. I am also estimating dispersal rates using stained individuals."

**Jill Doucette, Business** "Collecting and analyzing industry and government reports, media articles and statistical information that characterizes the history and current state of the clean technology industry in Canada. Being involved in the production of a clean technology industry report. Being involved in action research designed to connect clean technology entrepreneurs in Victoria, Vancouver and Seattle in a cluster strategy, and communicating the results of research to them. Providing background material for the preparation of a SSHRC Partnership Grant in the clean technology sector."

**Jin Liang, Business** "The perspectives of the Austrian School of Economics about the global financial crisis are unique and interesting. Basically, they promote the laissez-faire style of economics and oppose government interventions during economic downturns. In this research project, I will first examine the logic and assumptions of the economic theories underlying the position of the Austrian School. I will then conduct empirical research to verify the validity of these theories in the real world. I will obtain data from countries which did intervene in the economic crisis (reduce interest rates, increase money supply, etc.) and data from countries which, to some extent, did not intervene. Based on the collected country data, I will examine the relationship between the change of money supply and the cycle of economic growth using the econometrics method. Finally, I will use the relationship discovered to give recommendations regarding the general role of our government in managing the economic crisis."

**Nikita Kuklev, Chemistry** "My proposed research project at Dr. Steuermans lab is aimed at optimizing various techniques of manufacturing optical devices using EBPVD system, as well as using other equipment. Upon mastering such techniques, optical characterization of the manufactured devices will be performed, to determine such parameters as the actual layer thickness, reflectivity and gradient of the layers. The final goal of the project is to establish well defined and reproducible procedures for using EBPVD in manufacturing a variety of optical devices, as well as, if time permits,
to employ the before mentioned procedures in various projects both inside the group, as well as in a plethora of inter-group studies our lab is involved in."

**Hollis Roth, Chemistry** "The proposed research project entails using molecular dynamics simulations to determine the structure of water molecules adjacent to a hydrophobic polymer surface. Data from the water molecule trajectories will first be used to replicate and interpret previously published vibrational spectra from the air-water interface. Then, we will modify the simulation so it applies to various types of solid-water interfaces. Characterizing the structure of water molecules at such interfaces will promote the understanding of other molecules that associate at the interface. This is especially relevant to the study of protein denaturation on contact with hydrophobic polymers."

**Miranda Skjel, Chemistry** "My project will involve the synthesis of poly(phenylsilane) using methods reported in the literature, then testing the reactivity of the Si-H bonds towards hydrosilylation and dehydrocoupling with various ketones and alcohols using tris(pentafluorophenyl)borane. Once synthesized, I will characterize the functionalised polymers using 1H and 29Si NMR, UV/V is spectrosocopy and GPC."

**David Audet, Computer Science** "Energy scheduling for wireless sensors with energy harvesters. The main purpose of the project is to effectively schedule sensor sampling and radio communications under the unique energy constraints regulated by energy harvester devices like solar panel, e.g., the fluctuating energy source and the limited capacity of energy storage."

**Andreas Bergen, Computer Science** "Online Storage Benchmarking: Google has recently introduced an online storage system which they claim to be faster than many of their competitors'. Several questions come to mind immediately: First, is this really true? Second, does this proposed internal speedup make a noticeable difference in speed over the internet compared to other online storage providers? And, third, how fast is fast enough? Does the end-user observe a noticeable difference in their experience? I propose to develop a benchmarking tool that will enable us to exhaustively verify differences in the speed of the various online storage providers. This tool will also be very valuable in analyzing current and new developments within the cloud computing environment."

**Warren Koch, Computer Science** "Research in recommendation, voting, and collaborative filtering systems, with particular interest in their applicability to Byzantine fault tolerance, Social Computing, and CSCW."

**Dallas Hermanson, Curriculum and Instruction** "I will be analyzing technology adoption models in kindergarten to grade 12 education. I will analyze current data and collect new data on technology adoption in schools."
This will include advanced statistics analysis with SPSS and NVivo."

**Danielle Mountjoy, Earth & Ocean Sciences** "I will be conducting a trace element chemical analysis on magnetite, which is a spinel group mineral that commonly occurs in porphyry copper deposits. The goal of the project is to determine any element patterns in magnetite that can be used as a chemical 'pathfinder' when exploring for copper ore deposits. The project will consist of analyzing several hundred magnetite sample collected around BC from both barren and mineralized deposits. Firstly, I will determine the trace element chemistry of these magnetite sample using the LA ICPMS at the University of Victoria. Secondly, I will statistically interpret the data to determine any patterns that may exist which distinguish mineralized intrusions from barren intrusions."

**Tess Zyla, Earth & Ocean Sciences** "In May 2010, NEPTUNE Canada deployed a multibeam sector scanning sonar in a region off the west coast of Vancouver Island known as Bullseye Vent. The data from the sonar will be used to image methane bubble plumes venting from gas hydrates beneath the seafloor. Analysis of the data will provide a better understanding of the spatial and temporal variability of these plumes, as well as the relative gas flixes."

**Laurie Kan, Economics** "My project will develop and estimate statistical models of emergency room drug overdose visits before and after the closure of Victoria's needle exchange in order to evaluate the effects of the exchange on public health. The project will first examine the distribution of drug overdose admissions over time in Victoria and estimate, using appropriate econometric models, whether admissions exhibit a welfare check effect similar to that observed in Vancouver. I will then compare the size of the welfare check effect before and after the closure of Victoria's only fixed-needle exchange site. Finally, it tests whether the inconvenience derived from the closure of the needle exchange site has caused a change in demand among injection drug users - from crack cocaine to other substances that induce less-frequent injections and thus require fewer needles."

**Andrew Mollard, Economics** "I will be examining whether changes in the monetary policy of the Bank of Canada, in particular interest rate announcements, have an immediate short-run effect on the Canada/US exchange rate. I will examine both interest and exchange rate data from the last three years on and before announcements. After gathering the data and calculating the market's expectations, I will run a regression to determine the response of an interest rate announcement in the Forex market. Distinguishing between anticipated and unanticipated changes in interest rate policy will be
critical to evaluating the changes within the Forex market. By examining limited, short/micro intervals, determining a relationship between interest rates and exchange rates will be made easier because it will minimize the need to examine other longer-run macro disturbances such as changes in imports/exports."

**John Sim, Economics** "I intend to empirically analyze the Canada Research Chair program to see what effect (if any) it has had on research at Canadian universities. In my analysis, I will use salary data and chairholder profiles to look at the effects of Chair grants. I will then use productivity data to look at the effects of the Canada Research Chair Program on chairholders' careers."

**Andrea James, Educational Psychology & Leadership Studies** "Dr. Harrison is leading several research projects that I have been invited to join as a research assistant. One project is longitudinally examining literacy development in elementary-aged ESL (English as a second language) and non-ESL children. Another is researching the literacy profiles of children with communication disorders. The results from both of these projects hope to inform early literacy instruction and promotion in diverse groups of learners."

**Christian McMechan, Electrical & Computer Engineering** "I was awarded an NSERC USRA from May-Aug 2010, during which I developed an electronic stethoscope for eHealth and Telemedicine. My development effort yielded a prototype unit which will be delivered to the Royal Jubilee Hospital for evaluation by the biomedical staff at the Vancouver Island Health Authority (VIHA) before the end of October 2010. This URS program will enable me to improve the unit by adding extra features to meet the need of the eHealth program in British Columbia. Professor So and the staff at VIHA will supervise my research and development activities to create a low cost and good quality digital stethoscope to be used in remote and clinical applications."

**Brendan Morgan, Electrical & Computer Engineering** "The proposed research aims at developing a computer-assisted diagnosis tool for cardiac malfunctions. More specifically, we will work with echocardiograms in order to track the deformable volume of the left atrium over time. Once recovered, the dynamics of the left atrial volume will be used for diagnosing atrial arrhythmias, left ventricular dysfunction, and mitral regurgitation."

**Kelly Berthelot, English** "Knowledge mobilization, connecting research with people and organizations through all aspects of the research cycle, is critical to the success of Canada's knowledge economy (www.researchimpact.ca). Although undertheorized (see Bennett, Kelly, Hickey and Tinning), social media such as blogs and microblogs, video-sharing, podcasting, and social bookmarking of research resources, are potentially effective communication tools to extend and enhance knowledge mobilization. I hope to research best-practice methods of using social media tools to gain interest in, and ultimately
publication for, my Economics honours thesis entitled "Social Incentives: Exploring the Free-Rider Problem in Common-Pool Resources." I am currently enrolled in ENGL407, Computer-Mediated Communication, and hope to apply course theories and methods to publicize my findings beyond the classroom.

**Natalia Esling, English** "Developed in 1999, *The Map of Early Modern London (MoEML, mapoflondon.uvic.ca)* is the online database devoted to the mapping of Shakespeare's London. Under the supervision of Dr. Jenstad, the focus of my research will be to map and examine a particular cluster of streets located near and around one of London's major theatre thoroughfares. Through the collection of primary texts, notably John Stow's *A Survey of London* (1603), I intend to chart specific streets and investigate the relationship between their geographic characteristics and the popular event of theatre-going."

**Emma Gerlach, English** "The research project would seek to identify and expound upon relationships among the late poetry of T.S. Eliot, the seventeenth-century religious community of Little Gidding, the seventeenth-century poet, George Herbert, and the contemporary American poet, Susan Howe."

**Stuart Higgs, Environmental Studies** "As an URScholar, I would like to produce a viewshed projection of a portion of the Mountain Legacy Project’s (MLP) oblique image collection. This projection would be a detailed map of the exact land surface covered by the Mountain Legacy Project’s collection and would be a powerful resource for other researchers using the image collection. The MLP’s image collection is the largest in the world and is made up of oblique, historical images taken from high points and promontories throughout Alberta and BC. Currently, there is no method (other than an image-by-image review) by which to determine what terrain is resolved by the photographs. Knowing exactly what terrain is covered by a particular image or image set is essential if a researcher is interested in natural and cultural phenomena that have a particular spatial distribution. Creating a viewshed map would involve applying and expanding my knowledge of GIS programs to the MLP’s metadata and images."

**Elizabeth Sargeant, Environmental Studies** "There have been several dozen artificial cement reef balls that have been placed off the breakwater in Victoria which are now in the process of being colonized by algae and invertebrate species. This research project will focus on looking at how herbivorous gastropod species influence initial succession on these reef balls. This project will be completed over the next two semesters, with a final thesis paper due in April."

**Shannon Clarke, Exercise Science, Physical and Health Education** "Dietary patterns of children involved in organized sport compared
to children that aren't."

**Dawn Curtis, Exercise Science, Physical and Health Education** "This research project will document the fundamental motor skills [FMS] of BC kindergarten children and follow the sample longitudinally to determine the relationship of these motor skills to the engagement in physical activity over the 10-year period of the research. The primary task in the research in the next 10 months is to observe and describe the fundamental motor skills of the sample. It is in this phase of the research that I will participate. The particular focus of my project will be the comprehensive description of fundamental motor skills in the BC kindergarten population to enable me to compare the level of skill between genders."

**Lauren Talley, Exercise Science, Physical and Health Education** "This research project will document the fundamental motor skills [FMS] of BC kindergarten children and follow the sample longitudinally to determine the relationship of these motor skills to the engagement in physical activity over the 10-year period of the research. The primary task in the research in the next 10 months is to observe and describe the fundamental motor skills of the sample. It is in this phase of the research that I will participate. The particular focus of my project will be the comprehensive description of fundamental motor skills in the BC kindergarten population to enable me to compare the level of skill between genders."

**Adrian Cocking, French** "The proposed project is an examination of the various depictions of the Holy Grail in cinema up to this point in history."

**Nichelle Soetaert, French** "For my research project, I would like to propose a study of the role of music in twentieth century French literature with specific focus on a *La Nausee* by Jean-Paul Sartre, *L'Écume des Jours* by Boris Vian and certain works of Marguerite Duras, *L'Eden Cinema* and *L'Amant* in particular. All three authors form part of the curriculum of FRAN 450, a course I am currently taking."

**Sky Augustine, Geography** "Historically First Nations people constructed clam gardens to augment food supplies. I will explore the opportunities and challenges of building a clam garden in the Gulf Islands National Park Reserve (GINPR). I will investigate the biophysical parameters, the sociocultural interests of the Hul'gumi'num people and the implications for park management."

**Mathieu Bourbonnais, Geography** "My research will involve the utilization of GIS and Remote Sensing technologies in the analysis of the mountain pine beetle epidemic and its effects on forest fire regimes in the province of British Columbia. Understanding changes to forest composition, and fire ignition numbers and intervals is of great importance in effective forest management."
This project is particularly relevant given current impacts of both beetles and fire on provincial forests and economics."

**Amy Ganton, Geography** "In conjunction with the Department of Fisheries and Oceans (DFO) in Nanaimo, I will use GIS to determine the potential impacts of proposed closures by the Sports Fishing Advisory Board in 2009 and First Nations groups in 2001 to 2009, on the commercial Dungeness crab (Cancer magister) fishery in British Columbia. My thesis will question whether resource management decides which stakeholder group or species will be negatively impacted, or if there was a possibility that all groups can benefit."

**Nathan Horgan, Germanic and Slavic Studies** "The research project is a study of peer-assisted learning of the German language. The study will take place over one academic semester and will document the interactions between language students of two different levels. Specifically, the goal of this project is to see how students at different levels interact with each other linguistically as well as socially."

**Alyssa Marren, Germanic and Slavic Studies** "The research project consists of obtaining data from native English speakers learning to speak Russian to determine the phonetic perception and difficulties in individual encounters."

**Diotima Coad, Greek & Roman Studies** "The proposed research is an analysis of Pauline Christianity which Judaism understood as Greek philosophy. The framing consists of the general phenomenon of Hellenizing Jews and Judaising Hellenes and the content will examine the figures that allow us to fill in the landscape of philosophical exchange and interaction. The aim is to create a new model for viewing the intellectual and philosophical environment of Paul and his communities."

**Ruben Post, Greek & Roman Studies** "Following a series of historical milestones beginning with their defeat by the Macedonian king Philip II, father of Alexander the Great, in 338 BC, the states of Greece were forced to adapt the core of their militaries, the infantry, which had not changed substantially for centuries, to new ways of war. They were slow in doing so, however, and despite the evident martial superiority of their Macedonian opponents, they did not adopt Macedonian tactics for almost a century after 338 BC, instead adopting other tactics first. I will employ literary, inscriptional, and archaeological evidence to explain why major Greek states responded to defeat by first turning to non-Macedonian tactics, how those tactics affected their military capability, and what led to their relatively quick shift to the Macedonian way of war after this experiment."

**Paule Bellwood, Health Information Science** "Information technology is being introduced in healthcare settings at high rates in hopes of improving healthcare quality and outcomes. Unfortunately, it also results in unintended
consequences, such as technology-induced errors. These negative impacts of technology not only affect patients, but healthcare providers and organizations as well. Therefore, the aim of this proposed research project is to determine how organizations are addressing technology-induced errors as well as explore legal issues involving technology-induced errors and their impact on different healthcare organizations."

**Rebecca Campbell, Health Information Science** "The objective of the proposed research project is to identify whether there is any evidence that the Microsoft Health Common User Interface (MSCUI) (which was designed as a user interface for electronic health records - EHRs) is better than the user interface of the Veteran's Affairs Open Vista EHR system in terms of general usability. Usability will be tested using think-aloud and cognitive walk-through of both systems by study participants as well as heuristic evaluation. The subjects for this study will be health informatics professionals and healthcare providers who have prior experience with EHRs."

**Amanda Bolz, Hispanic & Italian Studies** "My project consists in researching bibliographical sources in the interdisciplinary field of Latin American literature and photography."

**Ariana Galeano Garcia, Hispanic & Italian Studies** "i) Reproduction and Its Discontents: Feminist Concerns about Reproductive Rights in Post-Franco Spain" analyzes the feminist debate over reproductive rights that took place in the pages of *Vindicación Feminista*, a journal edited from 1976 to 1979. ii) Participating in this research project, the student will gain: analytical and critical skills, political, historical, literary knowledge of key gender issues. iii) The student will analyze the collected edition of *Vindicación Feminista* to highlight the most important issues in the debate over reproductive rights. iv) The faculty supervisor will work closely with the student, supplying her the necessary background knowledge to carry out this project and will hold meetings with the student during throughout the duration of the project."

**Katrina Eschner, History** "Drawing on my historiographic reading of Canadian moral regulation histories, I will extend my reading to other secondary sources and conduct primary source research in the Victoria municipal archive and the BC Archives. Drawing on both resources, I will write a paper on moral regulation in early Victoria, to be submitted to *The Arbutus Review* or another journal."

**Kara Johancsik, History** "I will be looking at US-Iranian relations between the 1953 coup and the 1979 revolution with respect to modernization theory and its impact on US policy. I hope to touch on topics such as women's rights, the nationalization of Iranian resources and Iranian views of American involvement."

**Timothy Noddings, History** "I intend to research the lived religious
experiences of women in the early Jehovah's Witness movement, with a particular interest in how ritual behaviour potentially came to subvert conventional gender roles. My main focus will be on the central witness act of preaching door-to-door and its relationship to separate spheres ideology from 1880-1916."

**Gwendolyn Donaldson, History in Art** "My proposed research project is to catalogue and analyze the important and unpublished Maltwood Gallery collection of Islamic ceramics from Samarqand Uzbekistan. I will investigate the relationship of these ceramics to other published collections and draw conclusions about Samarqand's role in local and international trade."

**Julie Gennai, History in Art** "I will be giving the student a series of readings on contemporary political and aesthetic theory as it relates to activism and the arts. The student will write short synopses of these readings which will summarize pertinent concepts and theoretical issues. We will meet once a week to discuss her findings. The student will learn about contemporary critical theory as it relates to the arts in North America. This will contribute to her training as a visual arts student with a focus on environmental studies and activism. Additionally, she will contribute to my own learning as the research reports will assist me in the completion of a book on contemporary art and activism that I am writing for the University of Chicago press."

**Kathleen Connors, Linguistics** "I wish to learn more about the mental lexicon by examining the way repetition is perceived in language. The project will focus on what a repetition is, or isn't. That is, how much variation must a word undergo before it is considered to be a different word? In the course of this investigation, I will be examining prior research on the topic of repetition in language, and designing an experimental study."

**Marcelle Wheeler, Linguistics** "To assist with the Infant Speech Acquisition Project (InSpA) by investigating the integration of pharyngeal and laryngeal speech into the Arabic phonological system in 12-24 month-olds."

**Wanda Boyer, Mathematics and Statistics** "The Diophantine equations \(x^2 + y^2 = z^2 - 1\) and \(x^2 + y^2 = z^2 - 2\) arise in the Master's Thesis of Shahla Naserasr (UVic Math and Stats, 2007), and are also of interest in their own right. The proposed project involves using elementary methods (meaning, without powerful tools from complex analysis) to try to determine all possible solutions to equations of the form \(x^2 + y^2 = z^2 - n\) for as many values of the integer \(n\) as possible."

**Catherine Shenton, Mathematics and Statistics** "Dominating sets arise in the study of computer networks because of the need for a small set of nodes (or
vertices) that can communicate with all others. An 'efficient dominating set' of a graph is a set of vertices such that (i) no two vertices in the set are adjacent, and (ii) each vertex not in the set is adjacent to exactly one vertex in the set.

Cayley graphs are highly symmetric graphs that arise as models of computer networks. The vertices are elements of a finite group, and the edges are defined in terms of the relationships between them.

Obravovic, Peters and Ruzic studied efficient dominating sets in circulant graphs (Cayley graphs where the vertices are the group of integers modulo n). They characterized the circulant graphs of degree two, three, and four that have efficient dominating sets. A consequence of their results is that, for circulant graphs with n vertices, the elements of the efficient dominating set are "equally spaced" in the set of integers modulo n. Kumar and MacGillivray showed that these results are best possible in the sense that there circulant graphs of degree five with with efficient dominating sets whose elements are not equally spaced as above. They were able to use the group structure to accomplish two things: (i) to provide infinitely many examples of circulant graphs with efficient dominating sets whose elements are not equally spaced, and (ii) to show that the elements of an efficient dominating set in a circulant graph of degree n/2 or n/3 must be equally spaced.

The project has two phases. The first is to compile a collection of basic results about circulant graphs, and Cayley graphs on Abelian groups. Such results are regarded as folklore in the literature, yet there is no standard reference for the results and their proofs. After the first phase of the project is complete, the second phase is to see if the results of Kumar and MacGillivray can be extended to Cayley graphs on Abelian groups."

Geoff Burton, Mechanical Engineering "To test a method of machining wood using a coolant delivery system previously developed by the student and supervisor. The applicator was developed on a Wighton Product grant and was originally designed for coolant delivery in metal machining. The project will test the machining and finishing characteristics of the system on different woods. The ultimate goal is to develop a method of machining and finishing wood in a single step."

Heshan Fernando, Mechanical Engineering "Some drawbacks of current wind turbines are that they are expensive to manufacture, they need to be built on a very large scale to produce a decent amount of power, and they need to be placed on very tall towers to take advantage of higher wind speeds at high altitudes. The height of these towers is limited by the strength of materials and the tallest towers only reach heights of about 100m. There is a vast amount of untapped wind energy available at elevations several hundred meters above the current limit. Several companies are now looking into High Altitude Wind Power (HAWP) as an alternative wind turbine technology. These turbines are kite-
based, rotor-based (similar to a helicopter), and balloon/blimp-based. There is a potential for some of these technologies to harness more power out of the wind at a cheaper cost. My research project proposes to look into the potential of these HAWPs as an alternative wind technology and compare them to currently available wind turbines."

**Russ Gothard, Medical Sciences** "The project I am involved with will establish a baseline for the changes seen in neurogenesis levels over the lifetime. Adult neurogenesis (the generation of new neurons into adulthood – previously thought not to happen) has recently become a topic of great interest for its therapeutic potential in a number of neurodegenerative disorders. Levels of neurogenesis are known to change over the lifespan, but a comprehensive baseline outlining the basal rates of new neuron generation as well as their activation and incorporation into existing neural networks has not been established. This project aims to do that, as well as to investigate what effect spatial learning has on these levels across the life span.”

**Courtney Burrell, Medieval Studies** "My proposed research project is to examine Scandinavian mythology (specifically relating to the Danes) through Icelandic Sagas and Saxon Grammaticus's *Gestae Danorum* in order to determine their importance to creating a Danish "popular history" and if these sources can be used to help construct a factual history of the Danes. I would like to discuss what this "popular history" is and discuss what level of importance it has as a history based upon mythology and legends, especially as so little is documented about Danish history before the 11th/12th centuries."

**Kaitlyn Noye, Nursing** "The research project is intended to evaluate student-led learning in a practical setting: the Feet First program. The Feet First program is currently implemented at the Renal Dialysis unit at the Royal Jubilee Hospital and Our Place. A mixed-method approach will be used to explore the perceptions of the project by post and current nursing and medical students, clients of the Feet First program, and the key organization stakeholders."

**Marlene van Vuuren, Nursing** "The purpose of the study is to examine and evaluate a 'Student-led Service-learning' Practice Education Model implemented at Our Place and the Royal Jubilee Renal Dialysis Unit in Victoria, BC. The practice model aims to develop student knowledge, skills and attitudes of health risk populations, particularly related to client-centred care, collaborative practice, and professional leadership. This research study will provide a better understanding of the Student-led Service-learning model, specifically the student learning experience and gains, the clients' experience and benefits to population health, and the partnership experience and implications for organization partners."
Ruji Auethavornpipat, Pacific and Asian Studies  "Under the supervision of Dr. Leslie Butt, my proposed research project will concentrate on studying AIDs and stigma in eastern Indonesia. I am keen on examining and analyzing how the AIDs conference in Bali from 2009 strengthens or weakens networks. I am interested in health care policy and biomedical norms, but I am also interested in how people with AIDs present themselves at conferences and what kinds of discourse they use. Having always been a student of Southeast Asia, I will attempt to evaluate this through ideologies of Asian values and how they are evident in health care institutions in relation to AIDs."

Nicole McFadyen, Pacific & Asian Studies  "To explore aspects of stigma surrounding HIV+ individuals in Indonesia by looking at documents that are used as policies for health workers. To look at the role that health care plays in the experience of this stigma and how this stigma is created and perpetuated to patients."  Myles Carroll-Preyde, Political Science  "My project is an inquiry into the ways globalization and neoliberalism are changing the nature of citizenship: specifically how states are offering differentiated legal and political rights, responsibilities and public goods to their resident populations, on the basis of location, class, nationality, and other factors, in attempts to cope with the changing nature of global capitalism and the global political order."

Joshua Kepkay, Political Science  "This research project proposes a case study examination of maternal health in India. The goal is to determine whether cultural beliefs and/or practices affect access to maternal health services. Does their availability affect birthrate and population? I plan to conduct a comparison of access to maternal health services between the two major ethnic groups (Hindus and Muslims) disaggregated by the states in which they comprise majorities. Arguing that access to services such as family planning, preconception, prenatal, and postnatal care allows ethnic populations to grow, I will determine whether access to maternal health increases a nation's political clout within a multicultural framework."

Jamie Bartfai, Psychology  "Very little research exists in the area of embodied cognition in children. We are interested in learning more about the development of embodied cognition, so are investigating for the first time whether knowledge about manual interactions with objects is used when children identify manipulable objects (such as tools). We will use a computerized task to investigate whether this knowledge influences children's manual responses as it has in the past with adults. Children will be presented with a computerized task that cues them to make hand action responses towards certain objects."
Alyssa Idler, Psychology "My proposed research involves looking at the different ways that researchers currently measure well-being, and how these measures are interrelated. I aim to look at the differences between measuring state vs. trait levels of well-being and the relation between hedonic and eudaimonic conceptualizations of well-being."

Sonja Catherine Murchison, Psychology "This study will investigate spontaneous selection during spatial navigation using eye tracking and virtual environments. Navigational testing in a virtual Morris Water Maze will provide a means of assessing spatial performance. It is hypothesized that eye movements will reflect a navigator's selected strategy, thereby allowing us to identify and observe changes in navigational strategies and to learn that they influence spatial performance."

Pamela Andrews, Religious Studies "An investigation of the treatment and importance of death and dying in the Buddhist tradition. I will examine Buddhist scriptures and living traditions, including an investigation into active Buddhist communities within the Greater Victoria area. This inquiry will result in a 15–20 page paper to be submitted as part of my application to graduate school."

Russ Dawson, Sociology "Investigating the relationship between masculinity and heavy metal music, using content analysis and (potentially) ethnography."

Kyle Phillippe, Sociology "I intend to do a critical literature review on the topic of gay male masculinity. I intend to investigate the place of gay men in the gender system in relation to hegemonic masculinity. As my honours thesis, this project will involve critically reviewing the body of literature on this topic and making recommendations for future research."

Eric Smith, Theatre "Warwick Dobson is writing a history of applied theatre; I will assist him with research concerning Renaissance-era court masques in Europe."

Liam Volke, Theatre "I want to find evidence in favour of the Kantian idea that the Enlightenment means becoming an adult, and how this idea was disseminated through Enlightenment-era theatre."

Laura Anderson, Visual Arts "To have hands-on experience in a collaboration between art, research and science."

Aubrey Burke, Visual Arts "To work with a professor in a studio setting to gain knowledge in professional practices as well as the structure of research-based art making."

Sinead Charbonneau, Women's Studies "For this research project, I will conduct a discursive analysis of mainstream media coverage of the murder of an Indigenous woman in Victoria in February 2009, studying reports of this
event from the time of her death through to her trial in the winter of 2011. My primary text for study will be Victoria's local newspaper, the Times Colonist. My analytical framework for this research will draw from anti-colonial, transnational, and feminist theories. My aim in the project will be to study the (de)racialization and spatialization of this murder which has already, through plea bargaining, been reduced from first degree murder to accidental death. I wish to study the subaltern narratives of this tragedy in an effort to provide a fuller, more complex understanding of her life and death and, by extension, the lives of other homeless, Indigenous people in Victoria."

Tara Paterson, Women's Studies "I will research reproductive rights movements and organizations on Canadian university campuses with the intention of expanding and developing a network of pro-choice campus clubs and resources for student groups."

Martin Ainsley, Writing "I propose to make a start (3-5 chapters, or 10,000-20,000 words) on an historical novel set in 19th century British Columbia based on the real lives of two English immigrants, Thomas George Askew and Isabel Julia Curtis, who met in Victoria and were married in 1863. The project will entail some archival research as well as extensive use of scholarly and popular secondary sources and possibly a few field trips to the Cowichan Valley where the Askews settled."

Megan Hyska, Writing "I propose to research the mechanisms by which poems make arguments, whether explicitly in essay-like format, or implicitly in the comparison between two unlike things contained in a metaphor. This will serve doubly as a technical study for use in my own writing and as a philosophical inquiry into the role of genre in epistemic evaluation. This research will produce a series of 'argument poems', which will represent the implementation of my findings."