GSS OpenAccess Award - 2015 Recipient Information for Website

- Essya Nabbali - Doctorate - Sociology & Anthropology

Bio: Avid adventurer, wonderer, reader, learner, scribbler, or aspiring cryptographist, Essya penned what would become part of this article while undertaking dissertation fieldwork in Ghana. It came, and continued, as response to the very dialectics bound to her space in time, roles and expectations, obligations like implications, that not only played (personal) backdrop to the research itself, but effectively, has driven her scholarship over the last decade.

Article Title: ID Politics: The Violence of Modernity
Journal: Intersectionalities: A Global Journal of Social Work Analysis, Research, Polity, and Practice
Link: http://journals.library.mun.ca/ojs/index.php/IJ/article/view/1518

- Edith Wu - Masters - School of Criminology

Bio: Edith Wu is currently an M.A. student at Simon Fraser University. Her main focus is on terrorism with some attention on theory and social network analysis. Rebecca Carleton is an Assistant Professor of Criminology and Criminal Justice at Barton College. Her research interests include rural and urban crime; she is particularly interested in innovative uses of quantitative and qualitative methods, as well as social network analysis. Garth Davies is an Associate Professor in the School of Criminology at Simon Fraser University. His primary field of study is advanced statistical analysis. He is currently collaborating on the development of the Terrorism and Extremism Network Extractor (TENE), a web-crawler designed to investigate extremist activities on the internet. He is also interested in the policing of disorderly crowds and the intersecting issues of immigration, segregation, and crime.

Article Title: Discovering bin-Laden's Replacement in al-Qaeda, using Social Network Analysis: A Methodological Investigation
Journal: Perspectives on Terrorism
Link: http://www.terrorismanalysts.com/pt/index.php/pot/article/view/325

- Sibo Chen - Doctorate - School of Communication

Bio: Sibo Chen is a Ph.D. student at the School of Communication at Simon Fraser University, Canada. His research interests include environmental communication, critical discourse analysis, consumer culture, and rhetoric/genre theories.

Article Title: The Materialist Circuits and the Quest for Environmental Justice in ICT's Global Expansion
Journal: TripleC: Communication, Capitalism & Critique
Link: http://www.triple-c.at/index.php/tripleC/article/view/695

- Samaneh Khakshour - Doctorate - Mechatronic Systems Engineering

Bio: Samaneh Khakshour received her B.A.Sc. degree from Ferdowsi University of Mashhad, Mashhad, Iran, in electrical engineering, and the M.A.Sc. from the Khajenasir Toosi University of Technology, Tehran, Iran, in biomedical engineering, in 2007, and 2009, respectively. She is currently working toward her Ph.D. degree in the school of mechatronic systems engineering, Simon Fraser University, Surrey, BC, CA. She is currently a Research and Teaching Assistant in Simon Fraser University. Her current research interests include biomechatronics and mechanical feature characterization of cancerous cells.

Article Title: Probing Mechanical Properties of Jurkat Cells under the Effect of ART Using Oscillating Optical Tweezers
Journal: PLoS ONE
Link: http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0126548

- Charling Li - Masters - Urban Studies

Bio: Charling Li is a Professional Engineer with seven years of experience in the design, construction and certification of green buildings in Canada. Her career has been shaped by her passion for making the urban built environment more sustainable. Her technical background gives her the ability to understand the physical science behind sustainable technologies, while her research work in the Urban Studies program equips her with an understanding of the social and policy barriers to sustainable urban development. Charling's Master's thesis examines the barriers to district energy implementation in BC's Lower Mainland through a governance lens.

Article Title: The emergence and spread of ecourban neighbourhoods around the world
Journal: Sustainability
Link: http://www.mdpi.com/2071-1050/7/9/11418

- Tessa Cheng - Doctorate - Faculty of Health Sciences

Bio: Tessa Cheng is a PhD candidate in the Faculty of Health Sciences at SFU. Her research focuses on substance use and the risk environment among vulnerable populations in Vancouver, with a focus on not-as-prescribed opioid use. Tessa has a Masters in Public Policy from SFU and a BA (Hons.) in Philosophy from Acadia University. In her free time, Tessa

volunteers with the Vancouver Crisis Centre and is a member of the Technology Advisory Group for the College of Pharmacists of British Columbia.

Article Title: Increases and decreases in drug use attributed to housing status among street-involved youth in a Canadian setting
Journal: Harm Reduction Journal
Link: https://harmreductionjournal.biomedcentral.com/articles/10.1186/1477-7517-11-12

GSS OpenAccess Award - 2016 Recipient Information for Website

- Michael Peabody - Doctorate - Molecular Biology

Bio: Michael Peabody is a PhD student in Molecular Biology and Biochemistry, whose research focuses on metagenomics, or the study of genetic material recovered from environmental samples. He has been on an interdisciplinary and multi-institutional team working on a project called applied metagenomics of the watershed microbiome, with the goal to discover novel indicators of water pollution.

Article Title: Evaluation of shotgun metagenomics sequence classification methods using in silico and in vitro simulated communities
Journal: BMC Bioinformatics
Link: http://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-015-0788-5

- Mateusz Michalik - Doctorate - Psychology

Bio: Mateusz is a current PhD Student in the Sleep and Circadian Neuroscience Lab in the Psychology department at SFU. His research at SFU has examined the various ways in which organisms synchronize their daily biological rhythms to their external environments. More specifically his work examines the genetic and molecular basis of daily food-seeking behaviors and how this knowledge can be utilized to help in diseases that disrupt daily rhythms (e.g. Alzheimer's Disease). He has been awarded scholarships from the Natural Sciences and Engineering Research Council of Canada at both the Master's and Doctoral level.

Article Title: Dopamine receptor 1 neurons in the dorsal striatum regulate food anticipatory circadian activity rhythms in mice
Journal: eLIFE
Link: https://elifesciences.org/content/3/e03781

- Melanie Pylatuk - Masters - Biology

Bio: A Masters of Environmental Toxicology student, I began my involvement with the program in the fall of 2013. My areas of interest are toxicogenomics and my project is based in sequencing the metagenome of aquatic bacteria. My involvement with toxicogenomics began with Environment Canada through student co-op education in 2012 and currently I am working as a Tech with the PESC laboratory in North Vancouver.

Article Title: Microbiome Analysis Across a Natural Copper Gradient at a Proposed Northern Canadian Mine Site
Journal: Frontiers in Environmental Science
Link: http://journal.frontiersin.org/article/10.3389/fenvs.2015.00084/full

- Thea Van Rossum - Doctorate - Molecular Biology

Bio: Thea Van Rossum's is a PhD candidate in Fiona Brinkman's lab, where her research focus is on bioinformatics, microbial ecology, and environmental microbiomes. She has a background in computer science and is involved in open source teaching of data science skills through projects like Software Carpentry and SFU's SciProg group, which she co-founded.

Article Title: Year-long metagenomic study of river microbiomes across land use and water quality
Journal: Frontiers in Microbiology
Link: http://journal.frontiersin.org/article/10.3389/fmicb.2015.01405/full

- Careesa Liu - Doctorate - Engineering Science

Bio: Careesa Liu is a biomedical engineer currently pursuing her PhD in the NeuroTech Lab. She is a recipient of several awards, including the prestigious Canadian Institutes of Health Research (CIHR) Doctoral Award. Her research focuses on resting state brain activity and the development of novel medical technologies for monitoring recovery from major brain trauma and dementia. She obtained her Bachelor's and Master's degrees in Biomedical Engineering from the University of Toronto. Prior to SFU, she worked for the National Research Council Canada in Halifax, where she co-invented the Halifax Consciousness Scanner (HCS), a patented technology for point-of-care assessment of brain function in behaviorally unresponsive brain-injured patients. She is a co-founder of the Surrey Collaborative Outreach and Research Experience (SCORE), an internationally renowned outreach program that trains students ranging from the high school to graduate levels in medical technologies through hands-on exposure. SCORE recently won the Global Best Award for Science, Technology, Engineering, and Mathematics (STEM) in Oslo, Norway. She has authored numerous publications in peer-reviewed journals and presented her research at many international conferences.

Article Title: Developing Brain Vital Signs: Initial Framework for Monitoring Brain Function Changes Over Time

Journal: Frontiers in Neuroscience
Link: http://journal.frontiersin.org/article/10.3389/fnins.2016.00211/full

- Sunjoy Ghosh Hajra - Doctorate - Engineering Science

Bio: Mr. Sujoy Ghosh Hajra is a professional engineer with expertise in computer and biomedical engineering. He is currently pursuing his PhD in biomedical engineering at Simon Fraser University (SFU) developing diagnostic and therapeutic technologies for various brain diseases and disorders such as traumatic brain injury, stroke and Alzheimer's disease. Additionally, as the Chief Technology Officer for Surrey NeuroTech Lab, Mr. Ghosh Hajra is involved in research capacity building, creation of collaborative linkages with research and academic partners and mentoring of highly qualified personnel.

Prior to SFU, Mr. Ghosh Hajra worked at the National Research Council Canada, where he played a vital role in developing breakthrough medical technologies. Examples include the NeuroTouch surgical simulator, used in the world's first patient specific virtual neurosurgery and the Halifax Consciousness Scanner, a portable automated brain function assessment device.

Mr. Ghosh Hajra has authored and co-authored several peer-reviewed publications and has been the recipient of many awards in recent years, including the Top Twenty 20-somethings in Nova Scotia, the C.D. Nelson Memorial Scholarship, Provost Prize of Distinction and the Computer World Canada's IT Leadership Award. Recently, he co-founded an innovative training program for students called Surrey Collaborative Outreach and Research Experience (SCORE), which won the Global Best Awards for science, technology, engineering and mathematics (STEM) at both the North American and global levels.

Article Title: Developing Brain Vital Signs: Initial Framework for Monitoring Brain Function Changes Over Time
Journal: Frontiers in Neuroscience
Link: http://journal.frontiersin.org/article/10.3389/fnins.2016.00211/full

- Alisa Stanton - Doctorate - Education

Bio: Alisa Stanton has a Masters of Public Health from Simon Fraser University, and is currently working on a PhD that combines studies in Education and Health. Alisa has worked as a Health Promotion Specialist at Simon Fraser University since 2011. She has co-lead the Well-being in Learning Environments project and contributed to the development and implementation of the Healthy Campus Community Initiative. Her current research explores the creation of conditions for well-being in learning environments.

Article Title: Understanding Students' Lived Experiences of Well-being in Learning Environments
Journal: Higher Education Studies
Link: http://www.ccsenet.org/journal/index.php/hes/article/view/61858

- Serena Small - Masters - Communication

Bio: Serena is a current Master's student in the School of Communication at Simon Fraser University. She holds a BA from Carleton University in Communication Studies. At Vancouver Coastal Health's Centre for Clinical Epidemiology and Evaluation, she is a Research Assistant under her thesis supervisor, Dr. Ellen Balka, working with a multi-discplinary team to develop and implement an adverse drug event reporting system to enhance clinical care and strengthen the post-marketing surveillance of pharmaceuticals. Serena's research addresses the intersection of health technology, public policy, and data privacy.

Article Title: Designing an Adverse Drug Event Reporting System to Prevent Unintentional Reexposures to Harmful Drugs: Study Protocol for a Multiple Methods Design
Journal: JMIR Research Protocols
Link: http://www.researchprotocols.org/2016/3/e169/

- David Peddie - Masters - Communication

Bio: David is recent MA graduate of the School of Communication at Simon Fraser University. With a background in engineering and science, technology, and society studies, David is interested in participatory and ethnographic research related to work practice and health technologies. He is currently a member of the ActionADE project team led by Dr. Ellen Balka and Dr. Corinne Hohl, which centers on the participatory design of a novel system to track and communicate adverse drug events between providers and across care settings to improve both clinical care and drug safety research.

Article Title: Designing an adverse drug event reporting system to prevent unintentional reexposures to harmful drugs: Study protocol for multiple methods design
Journal: Journal of Medical Internet Research
Link: http://www.researchprotocols.org/2016/3/e169/

- Essya Nabbali - Doctorate - Sociology and Anthropology

Bio: Essya M. Nabbali is a Ph.D. Candidate in Sociology. Her article, "On Becoming 'White' through Ethnographic Fieldwork in Ghana," marks a first publication drawing directly from her dissertation fieldwork. It takes cues from two earlier papers, including the many discussions,

facilitated over the 2014 International Conference on Interdisciplinary Social Sciences (at UBC) and the 2015 Society for Socialist Studies Annual Conference (as part of Congress). Indeed, it would be 26 months from conception to (digi)print, with the editing process feeling particularly strenuous, as Essya revisited the mixed bag of emotions that is research, sadly, even some really unfair ones like guilt, embarrassment, fear, and the worse being despair. She's excited to have her pennings "out there," and to grow from whatever conversations (and criticisms) they may elicit.

Article Title: On Becoming "White" Through Ethnographic Fieldwork in Ghana: Are Ideas Imperial by Course?
Journal: Language, Discourse & Society
Link: http://www.language-and-society.org/journal/4-1/5_Nabbali.pdf

- Shaghayegh Zihajehzadeh - Doctorate - School of Mechatronic Systems Engineering

Bio: Shaghayegh Zihajehzadeh is a PhD candidate and Vanier scholar with the School of Mechatronic Systems Engineering at Simon Fraser University. She received the B.Sc. degree in electrical engineering/control systems from the Isfahan University of Technology, Isfahan, Iran, in 2008, and the M.Sc. degree in electrical engineering/mechatronics from the Amirkabir University of Technology, Tehran, Iran, in 2011. She is currently pursuing the Ph.D. degree under supervision of Dr. Edward J. Park. Her research focuses on the development of an accurate and ubiquitous motion capture system using wearable technology. Her current research interests include sensor fusion, inertial motion capture, and indoor/outdoor localization.

Article Title: Regression Model-Based Walking Speed Estimation Using Wrist-Worn Inertial Sensor
Journal: PLOS ONE
Link: http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0165211

- Alison Yueh Li - Doctorate - Biomedical Physiology and Kinesiology

Bio: Alison Li is a PhD student in the Department of Biomedical Physiology and Kinesiology at SFU. She completed Bachelor of Science in Chemistry and Biochemistry at UBC and Masters of Science in MBB at SFU.

During her master's degree, she successfully solved and published the structure of the regulatory domain of troponin C (TnC), an essential protein in cardiac muscle regulation. Mutations in this protein may cause familial hypertrophic cardiomyopathy (FHC), which is one of the most common inherited cardiac disorders in young population. Having the opportunity to explore the structural role of TnC, she became immensely interested in its functional role in the etiology of FHC. After her Master's degree, she began to work as a project manager and

research technician in the laboratory of Dr. Glen Tibbits where she further broadened her knowledge of the physiology of TnC at many different levels. She worked collaboratively with lab members and researchers abroad to examine a mutant TnC that is associated with FHC. Their collaboration successfully led to a publication that provides important insight on this mutation and the possible role it plays in FHC.

After her maternity leave in 2013, she returned to the Tibbits' lab as a PhD student and continues to expand the project to carry out more functional studies to characterize other FHC mutations. She's also collaborating with Dr. Thomas Walz at Rockefeller University in New York using Cryo-electron microscopy to solve the 3D structure of thin filament where TnC resides as an integral part of cardiac muscle contractile apparatus. She presents her work annually at many international conferences, including Biophysical Meeting, International Society for Heart Research, and Canadian Cardiovascular Congress where she won the Have a Heart Bursary for the top junior scientist in 2014. She currently holds a three-year (2015-18) NSERC PhD scholarship.

Article Title: Familial Hypertrophic Cardiomyopathy Related Cardiac Troponin C L29Q Mutation Alters Length-Dependent Activation and Functional Effects of Phosphomimetic Troponin I*
Journal: PLOS ONE
Link: http://journals.plos.org/plosone/article/related?id=10.1371/journal.pone.0079363

- Kaveh Rayani - Doctorate - Biomedical Physiology and Kinesiology

Bio: After immigrating to Canada at the age of 10 years old, Kaveh attended elementary, middle, and secondary school in Coquitlam. At SFU he studid sciences. During his undergraduate career Kaveh undertook: general sciences, Molecular Biology and Biochemistry, Engineering, and finally settled on Biomedical Physiology and Kinesiology. Upon graduating in 2012. He joined the Tibbits lab within the Cardiac Membrane Research Lab (CMRL). His research interests include cardiomyopathies and congenital heart disease. With the focus of his work being on molecular techniques to understand Hypertrophic Cardiomyopathy (HCM) specifically inherited forms of the disease, called Familial Hypertrophic Cardiomyopathy (FHC). The focus of his project is mutations in the calcium sensing subunit of the cardiac myofilament (troponin) where mutations are arrhythmogenic and can lead to sudden cardiac death.

Article Title: Functional Assessment of Cardiac Responses of Adult Zebrafish (Danio rerio) to Acute and Chronic Temperature Change Using High-Resolution Echocardiography
Journal: Plos one
Link: http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0145163

- Andrea Smit - Doctorate - Psychology

Bio: Andrea is a current PhD student in the Sleep and Circadian Neuroscience Lab in the Psychology Department at SFU. During her time at SFU, Andrea has conducted studies on a wide range of topics within sleep and circadian rhythms, ranging from the effects of sleep loss on neurological, academic and driving performance in human subjects, to the effects of dopamine pathways on food seeking behaviour in animals. Her PhD thesis will focus on understanding the physiological impact of jet-lag and methods to counteract it. She has been awarded an Alexander Graham Bell Canada Graduate Scholarship from NSERC for her PhD work. When she isn't in the lab, she is trying to promote the environmental benefits of living a zero waste lifestyle.

Article Title: Dopaminergic Regulation of Food Anticipatory Circadian Rhythms in the Rat
Journal: Plos One
Link: http://journals.plos.org/plosone/article?id=10.1371%2Fjournal.pone.0082381

- Joseph Thompson - Doctorate - Psychology

Bio: Joe Thompson (jjthomps@sfu.ca) is a PhD student in Psychology at Simon Fraser University, British Columbia. His primary empirical interests are in skill development and maintenance. The work employs detailed records of Real Time Strategy video game play, allowing for large samples of natural performance from a variety of ages. At a more theoretical level, Joe takes his work to elucidate the complexity of developmental processes more generally. This attitude motivates Joe's interest in new methodologies that allow for a clearer picture of how skill develops.

Article Title: Video Game Telemetry as a Critical Tool in the Study of Complex Skill Learning
Journal: PLOS ONE
Link: http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0075129

- Maria Spiliotopoulou - Doctorate - School of Resource and Environmental Management

Bio: Maria Spiliotopoulou is a Ph.D. student at Simon Fraser University's School of Resource and Environmental Management and a researcher with SFU's Centre for Sustainable Community Development. Her research focuses on the concept of urban productivity as an alternative way to approach sustainable community development (SCD) theory and practice.

Maria obtained her MA in Environmental Law and two diplomas in Environmental Pollution and in European Studies from the University of Strasbourg, France, and her BA in International and European Studies from Panteion University of Political Science in Athens, Greece. She has also worked as an environmental consultant for many years; her work experience ranges from fundraising for environmental and humanitarian NGOs, social corporate responsibility, and project management to environmental studies and law consultancy.

Maria is working with the Centre because she wants to be part of the current research that seeks to bridge the existing gap between planning and implementing sustainable development. She aspires to contribute to the exploration of practical tools that will motivate and assist communities toward sustainability and prosperity.

Article Title: Converging Urban Agendas: Toward Healthy and Sustainable Communities
Journal: Social Sciences
Link: http://www.mdpi.com/2076-0760/5/3/28

- Rodrigo Finkelstein - Doctorate - Communication

Bio: Rodrigo Finkelstein is a PhD student in the School of Communication at Simon Fraser University. His research interests include the political economy of communication, safety information, discourse of occupational health and safety, Marxism, and Marxism and Communication.

Article Title: The Commodity Form of Safety Information
Journal: tripleC
Link: http://www.triple-c.at/index.php/tripleC/article/view/712