

U of R Sustainability-Related Research - Fall 2015

Faculty	Faculty Member	Research Interests
Arts - Anthropology		
	Marcia Calkowski	Transnationalism and medical anthropology
	Susanne Kuehling	Gift exchange; personhood; migration; gender; and ethics
	Gediminas Lankauskas	Morality; social memory; "modernity"; nationalism; and the state
	Carlos David Londono Sulk	Anthropology of morality and performativity
	Tobias Sperlich	Anthropology of art and tourism
Arts - Economics		
	Hafiz Akhand	Role of institutions in economic growth; economics of foreign aid and development; health economics
	Jack Boan	Health economics; economics of public policy
	Jason Childs	Behavioural economics; public-goods provision; economics of deception
	Viktoriya Galushko	IP rights in agriculture; economics of innovation; returns to agricultural R&D; international trade policy; agricultural trade policy
	Samuel Gamtessa	Climate change mitigation policies and models; energy efficiency; natural resource economics; technical changes; efficiency; productivity; economic growth; micro-econometrics
	Harminder Guliani	Health economics; development economics
Arts - Geography and Environmental Studies		
	Louis Awanyo	Development geography; Africa; political ecology; agrobiodiversity and agrodiversity; geopolitics; geography of housing; geography of tourism; ecotourism
	Julian Cleary	Life cycle assessment; life cycle costing; bioenergy and biochar; municipal solid waste management; recycling; industrial ecology; urban metabolism; environmental policy
	Mark Cote	Atmospheric science (Meteorology and climatology); solar radiation; environmental science
	Janis Dale	Glacial geomorphology; soils
	Emily Eaton	Political economy and ecology
	Ulrike Hardenbicker	Badland erosion; slope stability; geomorphic hazards; land degradation

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	Kyle Hodder	Timing and properties of sediment transfer to, within and from lakes; the process-network of alpine and glacierized systems; prairie hydro-geomorphology
	Joseph Piwowar	Climate change impacts
	David Sauchyn	Hydroclimate of the past millennium; response of watersheds to climate variability and change; translation of climate change science for adaption decision making
Arts - International Languages		
	Dongyan Blachford	Community economic development; particularly the impacts on minority language; culture and identify of ethnic minorities in China
Arts - Journalism		
	Leonzo Barreno	Indigenous and minority studies; alternative (Indigenous) justice systems; international development and the justice system
	Mitch Diamantopoulos	History, politics and political economy of mass media, including alternative media. Media sociology and media cultural studies. Democratic approaches to journalism theory. Journalism history, particularly on the Canadian prairies. Media reform movements and innovative firm models for journalism. Cooperative studies; communy economic development and the social economy.
Arts - Justice Studies		
	Margot Hurlburt	Water governance; adapting to climate change; and marginalized people in Canada and South America.
	Hirsch Greenberg	Restorative justice/peace keeping and interprofessional collaborative practice approaches to crime; homelessness; mental health and addictions
	Nicholas Jones	Genocide; restorative justice; transitional justice; Aboriginal justice issues; policing; criminological theory
	Rick Ruddell	Impacts of resource-based booms on policing; community perceptions of law enforcement; policing isolated and rural communities; relationships between public-private policing in Canada and the US
Arts - Philosophy and Classics		
	Roger Petry	Knowledge production and sustainable development; globalization

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	Herbert Korte	Philosophy of science; philosophy of biology; legal; philosophical and environmental issues regarding non-human animals
Arts - Political Science and International Studies		
	Nilgun Onder	International political economy of global finance; global economic governance; international financial institutions; globalization and state transformation
	Deborah Simpson	Civil society and social movements; participatory democracy and democratic transition; discourses of development; HIV and AIDS; gender and development; planning; monitoring and evaluation; cultural forms of resistance; and North-South relations.
	Tina Beaudry-Mellor	Democracy; civil society and civic engagement; provincial and municipal politics; voluntary sector and community building; feminism and masculinities; and innovations in post-secondary teaching and pedagogy.
Arts - Psychology		
	Katherine Arbuthnott	Processes that facilitate goal-pursuit and self-control with particular application to pro-environmental behaviour and skill learning. Goal framing; commons dilemmas; nature and attention-restoration; food and well-being; biodiversity; increasing nature-connection.
Arts - Sociology and Social Studies		
	H. P. Diaz	Sociology of development (Latin America); rural sociology (rural movements and organizations; agricultural policies; social capital); sustainable development (environmental policies; environmental conflicts; adaptation to climate change); sociology of knowledge (social sciences and social policies)
	Amber Fletcher	Sociology of gender; gender and climate change; gender and public policy (particularly agricultural and trade policy); gender and water; qualitative research methodology and methods; participatory action research; critical realism; feminist theories; sociology of the family; leadership studies
	JoAnn Jaffe	Sociology of development and underdevelopment; sociology of the environment; sustainable/alternative development; gender; farming systems research; rural household studies; social ecology; peasant economics
	Rozzet Jurdi	Family Planning; Family Formation and Transitions; Maternal; Reproductive and Child Health; Health Information; Statistics and Survey; Migration
	K. M. Knuttila	Crisis and change in rural society; agricultural policy and globalization; men and masculinities; health care reform/ role of university and the value of liberal education; theories of the state

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	Andre Magnan	Sociology of agrifood relations; globalization and development; environmental sociology; and sociological theory. History and politics of grain marketing on the Canadian prairies; the financialization of agrifood systems; and changing patterns of farm structure and ownership in Canada and Australia.
	Claire Polster	Sociology of education - particularly higher education; the sociology of knowledge; social policy; and women's issues
Arts - Women's and Gender Studies		
	Darlene Juschka	Feminist methods, theories, and epistemologies; popular culture; globalization; feminist history; gender and sexuality studies (ancient and modern)
	Carrie Bourassa	Impacts of colonization on the health of First Nations and Metis people; creating culturally competent care in health service delivery; Aboriginal community-based health research methodology; Aboriginal end of life care and Aboriginal women's health.
	Patricia Miller-Schroeder	Women and the environment; women's reproduction and reproductive processes; motherhood; mothering and mothers; women as scientists and as subjects/objects of scientific research; women and human evolution; special interest in examining linkages between all of the above as well as how they can be empowering or oppressive to women; women's creative writing; memoir and life story as process and empowerment.
	Lori Walker	Feminist Theories; globalization and women; women's bodies as a site of control; sexual harassment; gender analysis; structures and gender perceptions through autobiographies
Business Administration		
	Magdalena Cismaru	Social marketing and health decision-making. The most effective ways of helping people to be healthier; safer and wiser by reducing the illusion of invulnerability.
	Janice Foley	Industrial Relations- trade union behaviour; women and unions; union and industrial democracy; union renewal and organizations in the cooperative sector.
	Wallace Lockhart	The effectiveness of regionalization; both in terms of stewardship and measurable system performance. The role of online tools for student engagement

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	Aldene Meis Mason	Entrepreneurship; sustainable development; and resource management. Indigenous and Northern opportunity recognition; enterprise/entrepreneurship; capacity building; innovation; sustainable communities; and corporate/Indigenous partnerships. Entrepreneurship education and real world; case and technology enhanced learning.
	Sandeep Mishra	General: Judgment and decision-making; personality and individual differences. Specific: Risk-taking and risky behaviour; gambling; antisocial conduct; inequality and social mobility; health and well-being; evolutionary psychology.
	Peter Moroz	Using process theory to better understand how entrepreneurial opportunities are conceived; evaluated and exploited within specific socio-spatial defined contexts to create innovative economic value for a wide range of stakeholders.
	Andrew Stevens	Industrial relations and trade unionism.
	Sean Tucker	Occupational health and safety-change in young worker safety behaviours across time; the influence of executive leadership on frontline employee safety behaviours and injuries; and predictors of young worker injury under reporting. Industrial relations-employer responses to unionization and labour law reform in Canada.
	Lisa Watson	Consumer entitlement; sustainable decision-making; and social marketing.
Education		
	Lace Marie Brogden	Teacher induction; the negotiation of linguistic subjectivities of pre-service and inservice teachers; writing as research; museums as sites for unlearning colonial practices.
	Laurie Carlson Berg	Inclusive education; school psychology; assessment and evaluation of student learning; teacher wellness and laughter yoga
	Cindy Hanson	internationalization; intergenerational learning; marginalized communities of practice; and gender.
	Patrick Lewis	Early Childhood Education and Early Elementary Education in the area of Pre-kindergarten to grade four. The relationship between play; art and narrative.
	Wanda Lyons	Inclusive Education
	Ronald R. Martin	Health and wellness among teach. Health-related research pertaining to seniors (i.e.; pain and falls among seniors with and without dementia)

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	Ken Montgomery	Antiracism and critical multicultural education; post-colonialism; sociology of education; philosophy and education; discourse analysis; social justice; critical approaches to the study of social identity and social oppression; nationalism; and cultural studies.
	Shauneen Pete	The Indigenization project at the University of Regina. Decolonization of faculty work.
	Garth Pickard	Education for Sustainability: Implications for the Preparation of Pre-service Teachers; The Integral Nature of Sustaining Well-being; Education for Sustainable Development and the Implications for Industry.
	Lee Schaefer	Teachers' knowledge and identity; and these aspects' impact on sustaining and leaving experiences of early career teachers. Working alongside Urban Aboriginal youth to understand how they conceptualizing wellness at school; at home and in their communities. How autobiographical and narrative inquiry may help physical education teacher education (PETE) students more deeply understand their pedagogical decisions.
	Marc Spooner	Creativity/deviance; creative potential; "at risk" youth; social justice & activism; homelessness; critical pedagogy/literacy; qualitative research methods; interdisciplinarity; and teaching and learning and technology.
Engineering - Environmental Systems		
	Shadid Azam	Characterization and Improvement of Geomaterials (Slurries; Soils; and Rocks). Sustainable Mine Waste Management (Tailings Dams and Waste Rock Dumps). Civil Infrastructure Systems (Constructed in; on; or with Marginal Soils). Geological Sequestration of Greenhouse Gases
	Gordon Huang	Waste management; site remediation; and risk assessment. Simulation and optimization of hydrological and environmental systems. Modeling of energy and environmental management systems. Climate modeling; impact assessment; and adaptation planning
	Yee-Chung Jin	Hydraulic engineering. Erosion and sediment transport in rivers; Groundwater contamination; Environmental hydraulics; GIS application in hydrological systems

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	Dena W. McMartin	Chemical-Free Water Treatment Solutions. Stormwater Quality; ReUse; and Climate Change Impacts. Agricultural Water and Environmental Performance Monitoring. Source Water Protection and Planning.
	Babak Mehran	Traffic flow theory. Intelligent transportation systems. Applications of new technologies such as Connected Vehicle and new traffic sensing techniques (e.g. Bluetooth and smart phone detection) in traffic management. Multi-sensor data fusion for traffic monitoring and prediction.
	Kelvin T. W. Ng	Non-hazardous waste generation in Western Canada. Environmental geotechnics and sustainable solid waste treatment. Beneficial reuse of waste materials in civil and environmental applications. Design; operation; and remediation of municipal solid waste landfills and other solid waste containment systems.
	Satish Sharma	Intelligent transportation systems. Statistical analysis of highway traffic data. Transportation economics. Highway traffic safety
	Amornvadee (Amy) Veawab	Corrosion and corrosion inhibition; CO2 capture technologies; Gas separation and purification; Biofuel technologies; Air pollution control and management
	Stephanie Young	Treatment and disposal of municipal and industrial wastewater; particularly pulp mill effluent. Wastewater from oil field: oil/water separation and reclamation of oily water and reuse. Advanced physical/chemical treatment; including membrane filtration and bioremediation. Water treatment process & facility design and modification. Collection and distribution systems design and analysis. Solid waste management including composting; sludge treatment and recycling. Hazardous waste management. Use of polymer materials for environmental engineering applications
Engineering - Industrial Systems		
	Adirsorn Aroonwilas	Greenhouse gas control technology; such as CO2 capture using spray columns; Biodiesel Production Technology; simulation and optimization of gas treating processes; Cogeneration and heat integration for power generation with CO2 capture
	Amr Henni	Acid gas removal from natural and flue gases. Calorimetry Mass transfer with chemical reactions. Renewable energy (wind and solar). Water desalination. Biotechnology (proteins and cells). Polymer Engineering (thermodynamics and heat transfer). Chemical education.

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	Gordon Huang	Waste management; site remediation; and risk assessment. Simulation and optimization of hydrological and environmental systems. Modeling of energy and environmental management systems. Climate modeling; impact assessment; and adaptation planning
	Hussameldin Ibrahim	Catalytic bio-hydrogen production and purification. CO ₂ -free hydrogen production. Organic deposits remediation during EOR processes. Biomass pyrolysis. Char/oil gasification to syngas. Modeling; simulation; and optimization of post- and pre-combustion CO ₂ capture with H ₂ production and CO ₂ utilization. Bioreactors and reaction kinetics. Heterogeneous catalysts development
	Raphael Idem	Greenhouse Gas Emissions Mitigation & Carbon Dioxide Capture from Flue Gases from Industrial Sources. Reformer Technology/Fuel Processing for Fuel Cell Application/Hydrogen Energy. Reaction Kinetics; Reaction Mechanisms; and Heterogeneous Catalyst Development. Fossil & Bio-fuels Processing
	Paitoon (P.T.) Tontiwachwuthikul	New technologies for CO ₂ recovery; production; and utilization (including Greenhouse Gas Control Technologies). High efficiency processes for gas separation and purification. Industrial pollution prevention and control (including energy and environment issues). Heat & mass transfer with chemical reactions. Industrial corrosion prevention and control Intelligent and knowledge-based systems development. Modeling; simulation; control; and optimization of industrial processes
Engineering - Petroleum Systems		
	Farshid Torabi	Enhanced Oil Recovery and Geological Sequestration of Greenhouse Gases.
	Daoyong (Tony) Yang	CO ₂ enhanced oil recovery (EOR) and storage.
Engineering - Process Systems		
	Hussameldin Ibrahim	Catalytic bio-hydrogen production and purification. CO ₂ -free hydrogen production. Organic deposits remediation during EOR processes. Biomass pyrolysis. Char/oil gasification to syngas. Modeling; simulation; and optimization of post- and pre-combustion CO ₂ capture with H ₂ production and CO ₂ utilization. Bioreactors and reaction kinetics. Heterogeneous catalysts development.

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	Raphael Idem	Greenhouse Gas Emissions Mitigation & Carbon Dioxide Capture from Flue Gases from Industrial Sources. Reformer Technology/Fuel Processing for Fuel Cell Application/Hydrogen Energy. Reaction Kinetics. Reaction Mechanisms and Heterogeneous Catalyst Development. Fossil & Bio-fuels Processing.
Engineering - Software Systems		
	Christine Chan	Applications of artificial intelligence and knowledge-based systems for energy and environmental system analysis. Social and economic impact of information technology.
Fine Arts		
	Rebecca Caines	Performance studies; creative technologies; community-based practices; new media; site-specific art; cultural studies; augmentation.
	Carmen Robertson	Media and popular culture constructions of Indigenous peoples; Anishinaabe artist Norval Morrisseau; issues related to Indigenous pedagogy and how the arts offer fresh curricular directions.
	Randal Rogers	Visual cultures of forensics; spies and sexualities; biopolitics; flight/crash/simulation; universal expositions
	Sarah Abbott	Issues of being; human rights; ethics; the environment; Indigenous cultures and issues; and community engagement.
	Charity Marsh	Indigenous Hip Hop Cultures; Popular Music in Canada; Electronic Dance Music Cultures; Interactive Media and Performance; Technology and Gender; Arts and Athleticism; Arts-Based Community Health
	Christine Ramsay	Canadian cinemas and Saskatchewan; masculinities in contemporary cultures; curatorial studies in expanded cinema; culture of small cities; philosophies of identity.
	Barbara Reul	Women and music; scholarship of teaching and learning.
	Kathleen Irwin	Site-specific practice; community-engaged art; identity; and mobility/stasis in performance.
	Wes Pearce	Contemporary Canadian Theatre Design; Intersections of theatre; homophobia and queerness; musical theatre
	David Garneau	Painting; contemporary Aboriginal art (Canada and Australia); critical art writing; curation.

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	Marsha Kennedy	Relationship between man and nature; the deeper emotional and metaphysical aspects of this exchange.
	Leesa Streifler	Two Dimensional Representation; Painting and Drawing techniques and methodologies; Figuration and Expressionism; Anatomy; Contemporary Art and Feminist practice; The Body with respect to self-image; agency; and marginalization; Mothering; Women and aging; Life Stages; Interspecies communication.
	Robert Truszkowski	(Conceptual) Popular culture; text, language, and communication; rap music; religion (Technical) Expanded colour and resolution possibilities in studio printmaking; digital print applications; lower and non-toxic approaches to studio printmaking.
Johnson-Shoyama Graduate School of Public Policy		
	Iryna Kryvoruchko	Economics of charities; Foundation and leadership giving; Applied microeconomics; Public economics and tax policy
	Amy Zarzeczny	Health law; Health policy; Science and biomedical research policy; Medical tourism
	Lihui Zhang	Crime and victimization among children and youth; Early childhood development; Intergenerational mobility and inequality; Population health and well-being
	Dale Eisler	Policy/communications interface; Economic and fiscal policy; Energy and environment; Canada-U.S. relations
	Doug Elliot	Saskatchewan demographics; Labour market supply and demand; First Nations development
Kinesiology and Health Studies		
	James Daschuk	Impact of environmental change on the health of Indigenous people; role of disease; changes to subsistence practices and climate change in the historical development of western Canada; impact of introduced species; horses and domestic cattle on the well-being of First Nations
Science - Biology		
	Mark Brigham	Behaviour and ecology of free-living animals under natural conditions. How these organisms cope with environmental constraints

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	Tzu-Chiao Chao	How environmental stressors and pollutants affect organisms and cells on the molecular level.
	Kerri Finlay	Aquatic ecology and biogeochemistry; specifically the role of Prairie lakes in the global carbon budget; and the effects of agricultural nitrogen sources on lake water quality.
	Daniel Gagnon	Forest ecology; Plant Conservation Biology; Hardwood Reforestation and Restoration; Hybrid poplar riparian buffers and agroforests
	Britt Hall	Environmental controls regulating the formation and bioaccumulation of methylmercury (MeHg) in aquatic ecosystems; specifically mercury dynamics in prairie environments.
	Peter R. Leavitt	Ecosystem Sustainability and Management
	Richard Manzon	Physiological and developmental responses of vertebrates to changes in their internal and external environments.
	Gavin Simpson	Dynamical systems ecology and abrupt ecological change; climate change effects on arctic lakes; nitrogen pollution of remote oligotrophic lakes; and recovery of lakes from acidification and eutrophication.
	Chris Somers	Population and conservation genetics; genetic toxicology; wildlife and fisheries management; and conservation biology.
	Mark Vanderwel	how forests will be affected by global change.
	Bjoern Wissel	Environmental controls of food web structure and energy flow in prairie lakes
	Christopher Yost	Environmental Microbiology and Bacterial Genetics
	Mary Vetter	Botany; Plant Taxonomy; Eco-Museums
Science - Geology		
	Janis Dale	Geomorphology; biogeography; Quaternary & glacial geomorphology and soil sciences. Speciality is the study of Arctic and Quaternary Environments; including modern and ancient marine ecosystems and benthic invertebrates in Canada and Greenland. In Saskatchewan; modern and quaternary environments; specifically the record of deglaciation and environmental change as recorded by glacial and aeolian landforms; paleosols and glaciolacustrine deposits.
Science - Chemistry and Biochemistry		
	Tanya Dahms	Cellular Response to Xenobiotics; Physical Biochemistry; Microscopy; Microbiology.

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	Renata Raina-Fulton	The atmospheric transport of pesticides and their transformation products; the development of new chromatography-mass spectrometry methods for the analysis of pesticides and their transformation products in air; water; and soil samples.
Social Work		
	Darlene Chalmers	The human-animal bond; the use of animal-assisted therapy as an adjunct to therapeutic practice and social work and the environment.
	Doug Durst	First Nations self-government. Social integration of marginalized Canadians.
	Donalda Halabuza	Family and individual resilience in a number of contexts such as family violence; separation and divorce; immigration and with children living in high risk situations. Custody and access and the use of qualitative methods.
	Garson Hunter	Unemployment and poverty; inequality; quantitative methodology and data analysis; field education and critical social work in micro and macro practice.
	Bonnie Jeffery	Income security and poverty; health policy; women and health; distance education issues in social work education; social policy issues for women and northern communities; quantitative and qualitative research design in the human services; Aboriginal health.
	Randy Johner	Understanding disability from a critical disability studies lens; (re) examining 'normalcy'; (dis) empowerment and the construct of 'Other' within the confines of social inclusion/exclusion; service provision and policy needs of families; particularly those living with some form of disablement; pursuing a holistic model of health and well-being that embraces spiritual; physical; intellectual; emotional and environmental aspects; research methodologies; particularly those that include Emancipatory Disability Research (EDR) principles.
	Daniel Kikulwe	Child welfare policies and programs; children's rights; families; immigration
	Brigette Krieg	Aboriginal women's healing; marginalization; housing and homelessness; resiliency; identity and healing; Photovoice; community based research; and arts based research.
	Elizabeth McNulty	Violence against women and children; female perpetrators of child sexual abuse; immigration and the effects on mental health; and the experiences of people with high functioning autism.
	H. Monty Montgomery	Indigenous social policy analysis; First Nations child welfare practice; and distance learning with Aboriginal adult learners.

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	Nuelle Novik	Palliative care; issues related to women and gender; issues related to rural and remote social work and health care; social work practice issues; issues related to immigration; and culture and ethnicity; anti-oppressive social work practice.
	Gabriela Novotna	Substance abuse; problem gambling; concurrent disorders; gender and addictions; knowledge translation and exchange; institutional theory; and organizational context of addiction treatment.
	Miguel Sanchez	Social policy; child poverty; traumatized populations; family violence; minorities; and international social work education.
	Raven Sinclair	Indigenous knowledge and research methodologies; synthesis of traditional and contemporary healing theories and modalities; aboriginal cultural identity issues; adoption; colonial and decolonization theories; mental health and wellness.
	Ailsa M. Watkinson	Human rights; including: women and children's rights; fundamental freedoms; prisoner rights; anti oppressive praxis and globalization.
	Judy White	The settlement experiences of immigrant; new Canadian women; and families in Canada.
	Angela Yung	Mental health; eradicating poverty; long-term care and aging; international social work; social work practice issues.