

List of Concordia Full-Time Faculty engaged in research related to sustainability

Faculty Name	Department	Research Topics
Addas, Amr	Finance	Flows and tracking errors of Socially Responsible Investment (SRI) mutual funds, sustainable finance
Akbari, Hashem	Building, Civil and Environmental Engineering	Cool cities & cool roofs
Alecsandru, Ciprian	Building, Civil and Environmental Engineering	Sustainable Transportation Development
Allen, Paul	Theological Studies	Christianity and ecology; Theology and science; Evolution and human nature; Political theology and philosophy
Amor, Meir	Sociology and Anthropology	Interdependencies and interconnectedness of status equalization, politics of inclusion and exclusion and violence in a historical and a comparative frame of analysis.
Athienitis, Andreas	Building, Civil and Environmental Engineering	Smart Net-zero Energy Buildings
Awasthi, Anjali	Concordia Institute for Information System Engineering	City logistics planning under sustainable freight regulations
Barker, Matthew	Philosophy	Philosophy of biology, science and values, environmental ethics, ethics of biotechnology
Bayne, Clarence	Supply Chain and Business Technology Management	Complexity Theory: Applications of Agent Based Evolutionary Algorithms (EA and MAS) in the study of social entrepreneurship, economic and community development in visible and other minority communities.
Belge, Ceren	Political Science	Minorities in the Middle East: Ethnicity, Religion and Support for Authoritarianism
Berger, Rachel	History	History of food and nutrition in interwar and early post-colonial India.
Best, Beverley	Sociology and Anthropology	The relationship between capitalism and ecological crisis.
Bhuiyan, Nadia	Mechanical and Industrial Engineering	Lean product development. How can an aerospace firm be organized and managed to be "lean"?
Biron, Pascale	Geography, Planning and Environment	Assessment of stream restoration for fish habitat projects; Sustainable designs for agricultural streams; Improving resilience of fluvial systems using natural river processes; Mitigating the impact of climate change on river dynamics.
Blanchet-Cohen, Natasha	Applied Human Sciences	Community youth development, eco-citizenship, immigrant and indigenous young people. How can engaging children and youth help build resilient communities?
Bloodgood, Elizabeth	Political Science	Emergence and influence of international non-governmental organizations (INGOs) and the political power of expertise.

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Bodur, Onur	Marketing	Consumer decision making, its managerial and public policy implications. Socially responsible consumption and marketing practice
Bolster, Stephanie	English	Disaster tourism, Environmental transformation, Middle landscape, Zoos
Bond, Eleanor	Studio Arts	Speculative projections of the built environment with meditations on a number of social, ecological, political and economic themes.
Brown, Grant	Biology	How do anthropogenic pollutants affect an organism's ability to assess predation threats?
Bulgak, Akif	Mechanical and Industrial Engineering	Design Integration and Coordination of Closed-Loop Supply Chains for Sustainable Manufacturing. Lean Manufacturing.
Caquard, Sébastien	Geography, Planning and Environment	How are new forms of maps changing our relationships with the world?
Castro, Juan Carlos	Art Education	How mobile media coupled with creative production networks knowledge in urban environments to create educational and civic engagement with teens and young adults.
Chen, Zhi	Building, Civil and Environmental Engineering	Air Pollution Control, Soil and Groundwater Remediation Design, Geomatics-Based Environmental Risk Assessment, Model-Based Environmental Decision Support.
Collard, Rosemary-Claire	Geography, Planning and Environment	Relationship between capitalism and animal life, or how animals' lives and deaths are used and transformed in capitalist regimes. Commodification of nature.
Cucuzzella, Carmela	Design and Computation Arts	How is sustainability changing the way public places (museums, libraries, parks, campuses) are imagined, designed, described and symbolized today?
Dal Farra, Ricardo	Music	Balance-Unbalance: Art, Science, Technology, Society and the Global Environmental Crisis.
Dayanandan, Selvadurai Daya	Biology	Biodiversity Conservation
De Guerre, Don	Applied Human Sciences	Sustainable Organizations and Communities. How best can citizens be engaged in direct and participative democratic action?
DeWolf, Christine	Chemistry and Biochemistry	How does ozone pollution affect human health?
Diamantoudi, Effrosyni	Economics	Coalition Formation and Foresight, International Environmental Agreements
Didur, Jill	English	"Gardenworthy: Planthunting in South Asian literature and travel writing
Dostaler, Isabelle	Management	Is an efficient and sustainable multimodal transportation system feasible in a low-density country like ours?

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Elektorowicz, Maria	Building, Civil and Environmental Engineering	How can discarded hazardous solids, wastewater and greenhouse gases be made valuable?
Ellermann, Greg	English	How might the Romantic poetry and philosophy of nature speak to our present environmental and theoretical situation?
Ferguson, Ronald	Management	Millennial's use of social media communications regarding an increasing imbalance between an emphasis on corporate versus societal good.
Fick, Carolyn	History	Colonial Caribbeal slavery, the Haitian and French revolutions, political, social and intellectual currents in eighteenth-and nineteenth-century Atlantic history.
Fraser, Dylan	Biology	Conservation biology and evolutionary ecology of small populations. Integrating traditional and scientific knowledge in biodiversity conservation.
Fritsch, Matthias	Philosophy	How should we understand the moral, political, and ontological relations with the dead and, above all, with future generations?
Galal, Khaled	Building, Civil and Environmental Engineering	Use of concrete and masonry for sustainable buildings
Gauthier, Pierre	Geography, Planning and Environment	Urban material and spatial transformations in the historical longue-durée, and the impacts of transportation infrastructures on urban forms.
Gélinas, Yves	Chemistry and Biochemistry	Global organic carbon cycle and climate change, Environmental Forensics, Biogeochemistry
Gopakumar, Govind	Centre for Engineering in Society	Policy dynamics of urban infrastructure change, social dimensions of the sustainability of water supply, social entrepreneurship for engineers.
Gould, Kevin	Geography, Planning and Environment	Politics of environmental and economic policy-making in the Americas.
Grant, James	Biology	Stocking strategies as part of the restoration plan for Atlantic salmon.. Using habitat preference data to evaluate the suitability of rivers for the stocking of Atlantic salmon.
Grohmann, Bianca	Marketing	Brand Social Responsibility: Conceptualization, Measurement, and Outcomes
Gulick, Patrick	Biology	Which genes regulate optimum root growth for plants exposed to drought? Genetic analysis of environmental stress-tolerance in plants.
Haghighat, Fariborz	Building, Civil and Environmental Engineering	Energy consumption of urban buildings, Urban Ventilation, Heat island, Adaptation to climate change, CFD modeling.
Hammad, Amin	Concordia Institute for Information System Engineering	Sustainable Infrastructure Lifecycle Management Systems. How can information technologies help manage our aging urban infrastructures, sustainably?
Hammond, Cynthia	Art History	Thinking critically and creatively about the role of women, animals, and biological life in designed landscapes and the built environment.

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Harsh, Matthew	Centre for Engineering in Society	How new and emerging technologies can improve livelihoods in sub-Saharan Africa. How can we prepare engineers to engage with global communities?
Hele, Karl	School of Community and Public Affairs / First Peoples Studies Program	How has the presence of a "border drawn by fools" affected and effected the Anishinaabe people of the Great Lakes?
Hetherington, Kregg	Sociology and Anthropology	Environment and Infrastructure in Latin America and Canada. Knowledge controversies and regulation and during periods of social and environmental change.
Igloliorte, Heather	Art History	Engaging Aboriginal communities in contemporary and historical Indigenous art and art history. The study of the ongoing relationship between museums and first peoples.
Ikeda, Satoshi	Sociology and Anthropology	Social economy, food and sustainability
Jaeger, Jochen	Geography, Planning and Environment	Landscape ecology, road ecology, urban sprawl, ecological modelling, environmental indicators, environmental impact assessment (EIA), and concepts of trans-disciplinary problem-oriented research.
Jaumard, Brigitte	Computer Science and Software Engineering	Train transportation management optimization
Jourdan, Christine	Sociology and Anthropology	Theories of cultural and social change. Changing food practices in Québec and in the Pacific.
Kalman, Laszlo	Physics	Study of the primary processes of photosynthesis, essential in the process of developing artificial energy converters for sustainable future energy production.
Kazemi Zanjani, Masoumeh	Mechanical and Industrial Engineering	Sustainable Operations Management (e.g. closed loop supply chains)
Kruzynski, Anna	School of Community and Public Affairs	Using innovative participatory action research methodologies, aims to help activists and organisations document, analyse and reflect on their activism.
Langshaw, pk	Design and Computation Arts	How is design interconnected with the complexities of sociocultural, environmental sustainability?
Lessard, Jean-Philippe	Biology	Why is biological diversity unevenly distributed on planet Earth?
Lewis, Jason Edward	Design and Computation Arts	Projects using virtual environments to assist Aboriginal communities in preserving, interpreting and communicating cultural histories.
Linds, Warren S.	Applied Human Sciences	How might adults work collaboratively and democratically with youth to develop leadership skills for social justice?
Little, Edward	Theatre	Creation and production of socially and politically relevant theatre based on the cultural experiences of diverse communities. Right to the City project. Going Public project.
Lopes, Luiz	Electrical and Computer Engineering	Smart sustainable autonomous power systems. How can we incorporate a larger proportion of reliable renewable energy into our conventional power system?

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Magnan, Michel	Accountancy	Financial reporting and governance. Corporate social responsibility, environmental and ethical issues
Martin, Vincent	Biology	Our laboratory views microbes as small "green" factories that can convert simple carbon sources such as CO ₂ , glucose or even plant residues into valuable bioproducts.
Masoudi, Nahid	Economics	Climate Change, Differential and Dynamic Games, International Agreements, Global Public Goods, Pollution Control Problems.
Matthews, Damon	Geography, Planning and Environment	Interactions between human activities, natural ecosystems and future climate change.
McCormick, Ted	History	Relation between quantitative approaches to population and ideas about providence, nature and government. Scientific projects aimed at transforming the environment.
Mendell, Marguerite	School of Community and Public Affairs	Social economy, alternative investment strategies, comparative community economic development, economic democracy, Karl Polanyi
Miller, Elizabeth L.	Communication Studies	Video advocacy, community media, gender and communication, youth media, food politics, water privatization, migration, refugees rights, web documentaries.
Molz, Rick	Management	Can Canadian enterprises achieve their objectives in developing economies in a sustainable and locally beneficial manner?
Moore, Christopher	Design and Computation Arts	The use of humour as a form of social resistance. Relationship between local design economies and their impacts on quality of life in urban geographies.
Morden, Peter	Applied Human Sciences	How might adults work collaboratively and democratically with youth to develop leadership skills for social justice?
Morris, David	Philosophy	Philosophy of the body, mind and nature in relation to current biology and cognitive science.
Müller, Frank	Economics	Ecological Economics, environmental theory, policy and management
Mulligan, Catherine	Building, Civil and Environmental Engineering	Development of industrial collaborations related to water and energy research. Development of a biosurfactant approach for remediation of contaminated soils.
Mulrennan, Monica E.	Geography, Planning and Environment	Aboriginal rights and interests in marine and coastal conservation in Canada and Australia. Indigenous women and their use, knowledge and attachments to sea space.
Nasiri, Fuzhan	Building, Civil and Environmental Engineering	Sustainable Energy Modelling & Optimization, Environmental Engineering, Sustainable Asset Management, Risk & Reliability Analysis
Nazemi, Ali	Building, Civil and Environmental Engineering	Water security and climate change, Hydrology and water resource management, modeling coupled human-water systems.
Neves-Graça, Katja	Sociology and Anthropology	SSHRC on Cultivating Biodiversity: the Politics of Knowledge, Education, and Practise at Botanical Gardens in the Age of Nature Conservation.

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OtcHERE, Dan	Economics	Foreign debt trap of the Third World.
Packirisamy, Muthukumar	Mechanical and Industrial Engineering	BioMEMS, air pollutants nano-sensors, micro photosynthetic power cells
Paquin, Raymond	Management	Sustainability oriented strategies for business, environmental collaboration, industrial ecology, industrial symbiosis.
Paraschivoiu, Marius	Mechanical and Industrial Engineering	Simulations for clean energy production and storage. Can we design efficient, affordable, vertical axis wind turbines?
Patterson, Judith	Geography, Planning and Environment	The end of cheap oil and the impact on the aviation industry
Patterson, Zachary	Geography, Planning and Environment	How can transport and land use planning be better integrated to ensure better social, economic and environmental outcomes. Canada Research Chair in Transportation- Land Use Linkages for Regional Sustainability.
Paulin, Michèle	Marketing	Millennial's use of social media communications regarding an increasing imbalance between an emphasis on corporate versus societal good.
Pillay, Pragasen	Electrical and Computer Engineering	Renewable energy & Energy efficiency. How can growing electrical demands be met by consumer side renewable energy technologies?
Poteete, Amy	Political Science	Electoral Competition, Natural Resource Policy, and Political Development in Africa.
Powlowski, Justin	Chemistry and Biochemistry	Can fungi yield new biological catalysts for making environmentally-sustainable products from plants?
Racine, Martin	Design and Computation Arts	How can social media help promote sustainable consumption, environmental awareness and social responsibility? The potential of new technologies for the field of ecodesign.
Rahaman, Saifur	Building, Civil and Environmental Engineering	Membrane separations for water and wastewater purification. Resource recovery (water, nutrient and energy) from wastewater.
Ramamurthy, Amruthur	Building, Civil and Environmental Engineering	Water quality, Site remediation, Ground water and surface water decontamination
Rantisi, Norma	Geography, Planning and Environment	Project on producers' cooperatives, which includes an analysis of a farmer's cooperative in the occupied Palestinian Territory.
Reilly, Rosemary C.	Applied Human Sciences	Collaborative creativity, Impact trauma on community, Transformative learning and change processes, Resilience as a creative process, Learning communities as complex systems.
Reimer, Bill	Sociology and Anthropology	Rural Policy Learning Commons
Richman Kenneally, Rhona	Design and Computation Arts	Will deeper understanding of the practices and rituals of food lead to more mindful, sustainable eating? Domestic foodscapes.

Faculty Name	Department	Research Topics
Rodrigues, Luis	Electrical and Computer Engineering	Control systems in avionics and aerospace. Can aircraft autopilots be designed to optimize fuel efficiency?
Roux, Caroline	Marketing	How does thinking about or experiencing resource scarcity impact consumers' cognition, judgment and behavior?
Rudin, Ronald	History	Canadian cultural and environmental history, with a particular focus on Atlantic Canada and its Acadian population. Maritime Marshlands project.
Rutland, Ted	Geography, Planning and Environment	History of cities and urban planning; the history and politics of policing; race and racism; and housing and tenants' rights.
Salée, Daniel	School of Community and Public Affairs	Politics of Ethnocultural Diversity; Canada.
Satir, Ahmet	Supply Chain and Business Technology Management	Environmentally responsible and sustainable supply chain management, green supplier development.
Schade, Rosemarie	History	Social history of a factory and factory town in Hessen as well as small sustainable enterprises and regional community building.
Schmitt, Ketra	Centre for Engineering in Society	Characterizing the economic impacts associated with terrorism and natural disasters and combining information from disparate health studies for environmental contaminants.
Schwab, Tim	Communication Studies	Marginalized and minority and diasporic communities, relationship between culture and the landscape and environment.
Secko, David	Journalism	How can the public engage meaningfully in the governance of science?
Serbin, Lisa	Psychology	Inter-generational transfer of psycho-social risk, effects of poverty and environmental stress on children's health over time.
Shrivastava, Paul	Future Earth	Implementing, Sustainable Development Goals, Climate action finance, Planetary Health, Urbanization, Art and sustainability
Stathopoulos, Ted	Building, Civil and Environmental Engineering	Building Physics and Wind Engineering
Stoett, Peter	Political Science	International Ecopolitics & Human Rights Issues.
Storms, Reginald	Biology	Fungi specialized in the production of a wide variety of secreted enzymes that degrade organic matter, particularly the complex polymers produced by photosynthetic plants.
Timm-Bottos, Janis	Creative Arts Therapies	How can we facilitate arts-based, noncommercial inquiry and knowledge exchange between the university and the community? La Ruche d'Art: Community Studio / Science Shop
Townsend, Craig	Geography, Planning and Environment	History, impacts, and financing of public transportation, and particularly rapid transit.

Faculty Name	Department	Research Topics
Tsang, Adrian	Biology	How can genomic information help improve technologies for reducing the environmental impacts of human activities?
van Wyck, Peter	Communication Studies	Waste and futurity. Project on discourses of risk and uncertainty concerning global initiatives to establish high-level nuclear waste repositories.
Vaughan, Kathleen	Art Education	Collaborative, participatory projects, taking up questions of home, belonging and spirit of place. The Right to the City project.
Walker, Thomas	Finance	Corporate Sustainability in Asset Pricing Models and Mutual Funds Performance Measurement; Sustainable Financial Systems; Developing Governance Tools and Policy Incentives to Combat Climate Change.
Walsh, David	Biology	The Impact of climate on Canada's microbial ocean
Weladji, Robert	Biology	How can we manage conflict between human and wildlife populations in the tropics?
Wood-Adams, Paula	Mechanical and Industrial Engineering	Polymer science and rheology. How do plastics made from agricultural sources differ from petroleum-based products?
Yuen, Felice	Applied Human Sciences	Leisure as a context for community development and civic engagement for marginalized populations.
Zaheeruddin, Mohammed	Building, Civil and Environmental Engineering	Multi-level predictive control and diagnostic strategies for optimal operation of heating ventilating and air conditioning systems in buildings
Zayed, Tarek	Building, Civil and Environmental Engineering	Sustainable Infrastructure Management
Zazubovits, Valter	Physics	Photosynthesis, biophotonics and renewable energies
Zerges, William	Biology	What else can we learn about cell biological processes associated with photosynthesis in plants and algae?
Zilberstein, Anya	History	How and why did British settlers seek to transform the environments they colonized? Climate and the Anthropocene, environmental history, the history of natural history, and food history.
Zmeureanu, Radu	Building, Civil and Environmental Engineering	Design and operation of sustainable buildings.