Graduate Programs
Dept. of Geography and Environmental Studies
Carleton University
Why a graduate degree? Why Geography?

• More job opportunities available to those with a graduate degree
• Awesome experience doing fieldwork
• Small classes
• Opportunity to work with a group of your peers in an exciting academic environment
• Work with experts conducting cutting edge research
DGES Professors’ Research Interests

• The following is a collection of some of the projects that our professors are currently working on with their graduate students

• Email the professors directly (contact info on each page) to discuss research ideas for graduate work
Peter Andrée (DGES + Political Science)
Peter.Andree@Carleton.ca

- Environmental politics and policy
- Political economy of agri-food systems
- Impacts of community-based and participatory research models
Patricia Ballamingie
patricia_ballamingie@carleton.ca

- Environmental conflict & democracy
  - First Nations & environmental justice

- Sustainable community & localizing food systems
  - Urban agriculture & resilience

- Engaged scholarship
  - Community-university partnerships
Mike Brklacich
michael_brklacich@carleton.ca

- Human dimension of global environmental change (GEC)
  - Social vulnerability and human security
  - Food security

- Community responses to multiple stresses
  - Capacity of Canada’s rural communities to adapt to uncertain futures
  - Southern Africa vulnerability initiative
Chris Burn
christopher_burn@carleton.ca

- Permafrost studies in the Yukon and western Arctic

Installation of ground temperature cable, Herschel Island

Ice-wedge polygons in Old Crow Flats

Ground ice near Mayo, YT
Emilie Cameron
emilie_cameron@carleton.ca

- Critical northern geographies
- Geographies of resource extraction, empire, and labour
- Race, nature, and environmental knowledge
- Geographies of Indigenous/non-Indigenous relations, colonialism, and Indigenous self-determination
- Feminist, poststructuralist, postcolonial, anti-racist, and political economic theories and approaches

“Road to the Mine” by Jimmy Kamimmalik, 2009

“Road to the Mine” by Jimmy Kamimmalik, 2009
Stephan Gruber
stephan.gruber@carleton.ca

Research interests and research areas for theses:
• Permafrost, mountain environments, climate change impacts
• Measurement, computer simulation, sensitivity & uncertainty
Elyn Humphreys
elyn_humphreys@carleton.ca

Soil-plant-atmosphere interactions

- Micrometeorological measurements of trace gas exchange
- Leaf-level studies

Southern Arctic, NWT

Mer Bleue bog, Ottawa ON
Doug King
doug_king@carleton.ca

- Remote sensing and GIS of forests and wetlands
- Mapping vegetation structure, composition and health
- Habitat mapping
Fran Klodawsky
fran_klodawsky@carleton.ca

• Critical social geography
  – Research to end homelessness
  – Inclusive cities in Canada and internationally

• University-community research collaborations

• Urban and neighbourhood scale research
Gita Ljubicic
gita_ljubicic@carleton.ca

- Relationships between Inuit language, knowledge, and use of northern environments
- Sea ice and marine environments
- Cross-cultural, collaborative research methods
- Linking Inuit and scientific knowledge in a complementary manner
- Northern content and contributions in education materials and programs
Pablo Mendez  
pablo_mendez@carleton.ca

• **The globalization of the homeownership ideal:** comparing how mortgaged homeownership is valorized and unevenly enabled in different parts of the world.

• **The financialization of international development:** interrogating the idea of credit-based asset building as a strategy for combatting poverty and inequality.

• **Geographies of debt and indebtedness:** investigating the inter-scalar role of financial and non-financial forms of debt in the production of space.
Scott Mitchell
scott_mitchell@carleton.ca

- Spatial pattern and ecosystem processes
  - Biodiversity and productivity
  - Anthropogenic impacts
  - Uncertainty of land cover maps
  - GIS & landscape models
Paul Mkandawire
Paul_Mkandawire@carleton.ca

- Social and environmental determinants of health
- Political ecology of health
- Urban environments and health
- Global public health policy
- Science policy: role of science in environment and health policy
- Health care systems and health care finance programs
Derek Mueller
derek_mueller@carleton.ca

- Glaciology of ice shelves and other thick coastal ice in the Canadian High Arctic
- Remote sensing to detect and evaluate cryospheric change
- Impacts of Arctic climate change
Murray Richardson
murray_richardson@carleton.ca

- Landform mapping with remote sensing and digital terrain analysis
- Hydrology and water-quality research in boreal regions (field and model-based approaches)
- Light Detection and Ranging (LiDAR) applications in hydrology and the biogeosciences
Jennifer Ridgley
jennifer.ridgley@carleton.ca

- Critical labour, political, and legal geographies of the city
- Citizenship, border security, and migration management
- Local immigration politics, including sanctuary policies, anti-deportation campaigns, and movements for refugee rights
- Urban policing and law enforcement
Blair Rutherford
blair_rutherford@carleton.ca

- cultural politics of land, labour and belonging
- farm labour and the agrarian question in Zimbabwe and sub-Saharan Africa
- undocumented migrants, citizenship and livelihoods in South Africa
- ethnographic research in a postcolonial world
Derek Smith
dereka_smith@carleton.ca

- Mapping indigenous territories and natural resource use in rain forest regions of Central America and Mexico
- Traditional Geographic knowledge
- Cultural Landscapes of the Yucatan Peninsula

Adult paca (*Agouti paca*)
Fraser Taylor
fraser_taylor@carleton.ca

• The application of geographic information processing to the analysis of topics of interest to society in a national and international context and the display of the results using multimedia and multi-sensory cartography
• The creation of cybercartographic atlases with northern and aboriginal communities
• Indigenous and local knowledge
• Regional and Rural Development in developing nations
• Geographic information management and "Crowd sourcing"
Jesse Vermaire
jesse.vermaire@carleton.ca

- Impacts of climate warming and nutrient enrichment on lakes and streams
- Ecosystem resilience, regime shifts, and recovery in freshwater systems
- The importance of extreme events (e.g. droughts, storm surges, permafrost slumps) in altering aquatic ecosystems
Jill Wigle
jill_wigle@carleton.ca

• Informal housing and human settlement planning in cities of the global south

• Environmental and social dimensions of urbanization in Latin America

• Urban planning and community activism

• Mexico City
Some Recent MA Theses

• *Neighbourhoods Matter: Examining Neighbourhood Significance through the Eyes of Women Who Live in Supportive Housing* (Klodawsky)

• *Exploring Karin Experiences of Urban Agriculture in Ottawa: The Importance of Place-making, Agriculture and Cultural Identity* (Ballamingie)

• *Cascading Failure in Critical Infrastructure: An Actor-Network Analysis of the 1998 Ice Storm in Ottawa* (Brklacich/Dalby)

• *Access to Cochlear Implant Technology: A structurationist approach* (Bennett)
Some Recent MSc Theses

• The Development of near-surface ground ice at Illisarvik, Richards Island, Northwest Territories (Burn)

• Snow Surface Energy Exchanges and Snowmelt in a Shrub-Covered Bog in Eastern Ontario, Canada (Carey)

• Assessing the growing season carbon budget of an Arctic Sedge fen (Humphreys)

• Evaluation of three semi-empirical soil moisture estimation models with RADARSAT-2 imagery (Mitchell/Davidson)

• Multivariate forest modelling and mapping using Quickbird imagery and topographic data in Chelsea, Québec (King)
Some Recent PhD Theses

- *Toward Interactive Audiovisual Cartography: Motivations, Design Strategies, and Methods* (Taylor)

- *Mobilizing Grandmotherhood: Possibilities of Global Connections* (Brklacich)

- *Spaces of Co-existence: The Processes and Prospects of Living with Endangered Species* (Wallace)

- *Evaluating Spatial and Seasonal Variability of Wetlands in Eastern Ontario Using Remote Sensing and GIS* (King)