

Proven record of community development and research surrounding climate change adaptation, public health, and disaster risk reduction. I have developed and implemented initiatives in Uganda, Tanzania, and the Canadian Arctic, writing and managing over \$285,000 grant dollars from government bodies, businesses, and philanthropic organizations. Highly adaptable, I have a passion for creating and learning.

Education

McGill University, Department of Geography

M.Sc. Geography
Rotary International Global Scholar - *Disease Prevention and Treatment*
National Geographic Young Explorer
Fall 2014 – Summer 2016

Iowa State University, College of Agriculture and Life Sciences

B.Sc. in Global Resource Systems, and Environmental Studies, *cum Laude*
Fall 2010 – Spring 2014

University of Iowa, Roy J. and Lucille A. Carver College of Medicine

Paramedic Specialist Program: NREMT-Paramedic, Critical Care Paramedic, Iowa
Spring 2013 – Fall 2014

Experience

Program Manager

McGill University, Climate Change Adaptation Research Group – Montreal, Canada
July 2016 – Present

- Contributing Author to IPCC Special Report on the Impacts of Global Warming of 1.5°C
- Wrote and managed research budgets for government-funded research projects (project grants totaling \$125,000)
- Applied coding skills (R code & Python) to pull, clean, and analyze over 1 million weather and ice data files
- Managed teams of research assistants and community collaborators that were examining climate change impacts on Arctic disasters and Inuit health
- Collaborated with team of post-docs to create a vulnerability index for the Arctic and analyze risks under future climate scenarios
- Received UAV operator license, and directed UAV project to examine use for hazard monitoring in Arctic
- Worked with colleagues to develop an Arctic young researcher network, collaboratively meeting strategic goals, funding \$4,000 of team projects, and organizing numerous conferences

Master's Student

McGill University, Climate Change Adaptation Research Group – Montreal, Canada
August 2014 – July 2016

- Developed and nurtured relationships with Indigenous communities across the Canadian Arctic to conduct collaborative research
- Applied various research methods – including ESRI spatial analysis tools, R statistics tools, and qualitative interviews – to analyzing social and environmental determinants of injury and search and rescue in Nunavut, Canada
- Wrote successful grants totaling \$80,000 and managed project budgets and financial reporting
- Managed team of research assistants based at McGill and in the Arctic

Regional Director

International Association of Students in Agriculture and related Sciences (IAAS) – Ames, Iowa
January 2012 - August 2014

- Coordinated international meetings in North and South America
- Oversaw the communication and cooperation between 25 local organizations across the Americas
- Facilitated and organized weekly seminars for students at Iowa State University
- Maintained ties with UN FAO sponsors and EU partners
- Supervised conference budget of \$90,000 and operating budget of \$10,000

Paramedic / Firefighter

Westory Fire Agency – Kelley, Iowa & Colchester Rescue, Vermont
August 2012 – August 2014 & August 2016 – December 2016

- Provided advanced life support level care in a prehospital setting, responding to 911 medical and fire emergencies
- Maintained EMS skills and training including Hazardous Materials Operations
- Operated and maintained emergency vehicles, radios, and fire apparatus

Post-2015 Policy Collaborator

Major Group of Children and Youth, United Nations – Global
March 2012 – October 2013

- Wrote and developed policy briefs for the UN Major Group of Children and Youth on topics related to Sustainable Development Goals, sustainable agriculture, employment, and social protection programs
- Participated in UN conferences, such as Rio+20, to lobby and observe member-state document negotiations

Consulting Projects

- SAR prevention, **Canadian Air Force & Civil Air Search and Rescue Association**
- Co-Coordinator Land Safety Course, **Hamlet of Arviat and Arviat Wellness Centre**
- GIS analysis of trauma incidence and care, **McGill Centre for Global Surgery**
- Communications and social media, **Arctic Inspiration Prize**
- Grant writing for Integrated Rural Health Care Program, **Empower Tanzania Inc.**
- GIS based project M&E, **Iowa State University Center for Sustainable Rural Livelihoods**
- Vulnerability assessment of health and food security, **Empower Tanzania Inc.**

Proficiencies

Language: English (native), Spanish (intermediate), R (programming language)

Medical: Paramedic (Critical Care Paramedic, EMT-P, NR;), certifications held: ACLS, PALS, PHTLS, AMLS, SAR Tech III, Canadian Disaster and Humanitarian Response Training. Experience teaching wilderness and urban EMS.

Professional Organizations

Global Resource System Advisory Council (Iowa State University), National Association of Emergency Medical Technicians, Association of American Geographers, Gamma Sigma Delta Honors Society, Cardinal Key Honors Society

Grants

Lead writer of nine grants, with total awarded over \$185,000

- Transportation Canada, Northern Transportation Adaptation Initiative - 2017
- Nunavut Department of Health - 2016
- Rotary Global Scholar – Disease Prevention and Treatment – 2014 & 2015
- National Geographic Young Explorer – 2016 & 2017
- Kolchosky Global Scholar - 2011, 2012 & 2013

- Portia A. Goke Advanced Curriculum Scholarship - 2012
- Manatt Scholarship – 2012
- Iowa State University Undergraduate Travel Grant - 2013

Publications

Ford, J.D., Couture, N., Bell, T., **Clark, D.G.** Climate change and Canada's north coast: Research trends, progress, and future directions. (In Press). *Environmental Reviews*.

Clark, D.G., Ford, J.D. Emergency response in a rapidly changing Arctic. 2017. *CMAJ*. 189, 135-6.

Hamadani, F., Morgan-Cavallaro, M., **Clark, D.**, Baracco, D., Deckelbaum, D., Mulder, D.S., Razek, T. Epidemiologic and spatial analysis of trauma service regionalization on the Island of Montreal: is there evidence to support a greater role for non-level I trauma centers? (Under Review). *Injury*.

Clark, D. G., Ford, J.D., Pearce, T., Berrang-Ford, L. Vulnerability to injuries associated with land-use activities in Nunavut, Canada. *Social Science & Medicine*. 169, 18-26.

Clark, D.G., Ford, J.D., Berrang-Ford, L., Pearce, T., Gough, W., Kowal, S. The role of environmental factors in search and rescue incidents in Nunavut. 2016. *Public Health*. 137, 44-49.

Clark, D.G., Premkumar, D., Mazur, R., & Kisimbo, E. Geospatial Resource Access Analysis in Hedaru, Tanzania. *ESA Living Planet Symposium Proceedings*. Edinburgh, United Kingdom.
<http://adsabs.harvard.edu/abs/2013ESASP.722E.250C>

Presentations

Clark, D. Health and Climate Change; beyond hurricanes and heatwaves. One Health Conference, November 2016, Iowa City. [Invited Presentation]

Clark, D. Ford, J., Pearce, T., Berrang-Ford, L. Vulnerability to unintentional injuries associated with land-use activities and search and rescue in Nunavut, Canada. *ArcticNet*. (2016), Winnipeg.

Clark, D. Evidence based practice and search and rescue. *SARScene*, October 2016, Edmonton. [Invited Presentation]

Clark, D. G., Ford, J., Berrang-Ford, L., Pearce, T., Gough, W., Kowal, S., Environmental Dimensions of Search and Rescue and Injury in Nunavut. *Transforming Health Care in Remote Communities*. (2016). Edmonton.

Clark, D. G., Ford, J., Berrang-Ford, L., Pearce, T., Gough, W., Kowal, S., Environmental Dimensions of Search and Rescue and Injury in Nunavut. *ArcticNet*. (2015), Vancouver.

Panelist, International Development Seminar. International Association of students in Agriculture and related Sciences National Summit (IAAS). (2014). Seattle.

Clark, D. G., Premkumar, D., and Mazur, R., (2014). Geospatial Resource Access Appraisal in Hedaru, Tanzania. *Association of American Geographers*, Tampa.

Clark, D. G., Premkumar, D., and Mazur, R., (2014). Vulnerabilities to Food Insecurity in Hedaru, Tanzania. *Global Food Security Consortium*, Ames, IA.

Posters

Clark, D. Ford, J., Pearce, T., Berrang-Ford, L. Vulnerability to unintentional injuries associated with land-use activities and search and rescue in Nunavut, Canada. *ArcticNet*. (2016), Winnipeg.

Clark, D. G., Ford, J., Pearce, T., Berrang-Ford, L. (2016) Vulnerability to injuries associated with land-use activities in Nunavut, Canada. *Transforming Health Care in Remote Communities*. Edmonton, AB.

- Clark, D. G.,** Premkumar, D., Mazur, R., & Kisimbo, E. (2013) Geospatial Resource Access Analysis In Hedaru, Tanzania. ESA Living Planet Symposium. Edinburgh, United Kingdom.
- Clark, D. G.,** Premkumar, D., and Mazur, R., (2012). Vulnerabilities to infectious diseases in Hedaru, Tanzania. Des Moines University Global Health Consortium, Ames, IA.
- Clark, D. G.,** Premkumar, D. (2012) Geospatial analysis of natural and infrastructure resource access influences on agricultural practices and livelihood wellbeing in The Hedaru Valley, Tanzania. Iowa State University Borlaug Poster Session. Ames, Iowa.
- Clark, D. G.,** Mazur, N., Hoefler, L. (2011) Sexual Health Education in Kamuli, Uganda. Iowa State University Borlaug Poster Session. Ames, Iowa.

Teaching Experience

McGill University Geog 200 World Environmental Problems

Iowa State University, Globe 211 '*Geography Seminar Course*'

- Taught classes on introductory GIS and health geography
- Assisted with curriculum development

Iowa State University, Globe 494 '*Service Learning Course*'

- Assisted with day-to-day coordination of seven-week service learning course in Uganda
- Guided student experiences, engage with local communities, and develop projects
- Worked with instructors to manage student health and wellbeing

Mary Greeley Medical Center EMT Course

- Provided assistance as a skills instructor teaching basic life support level students

Media Coverage of Work

Arctic Deeply – [*Use of drones for search and rescue in the Arctic*](#)

National Geographic – [*Arctic Search and Rescue and Climate Change*](#)

National Geographic – [*Dylan Clark learns from Arctic communities about climate change*](#)

Arctic Deeply – [*Risk on the Land and Climate Change*](#)

CBC – [*New research confirms link between environment and SAR*](#)

McGill University – [*Paper Published on Search and Rescue in the Arctic*](#)

CBC – [*Land Safety Course in Nunavut*](#)

Nunatsiaq News – [*Search and Rescue Research in Nunavut*](#)

Ames Tribune – [*Climate Change and Dylan's work in the North*](#)

Medium – [*Building Safety and Resilience in the Arctic*](#)

Des Moines WHO TV – [*ISU undergraduates present climate change research*](#)

Iowa State University – [*Two Iowa State seniors present at ESA*](#)