

# Introductory Webinar: Canada-Inuit Nunangat-United Kingdom Arctic Research Programme

16 June 2021, 4:30pm – 6:00pm UK / 11h30-13h00 Ottawa & Montreal

## PARTICIPANT CONTACTS, BIOS AND INTEREST AREAS

### Donald McLennan

Hi everyone, its Donald McLennan (formerly of Polar Knowledge Canada at CHARS but now at the Arctic Research Foundation ([Donald@arcticresearchfoundation.ca](mailto:Donald@arcticresearchfoundation.ca)) - we provide logistical support in the form of cost-effective research vessels on Hudson Bay, Beaufort Sea and out of Cambridge Bay on Coronation and Queen Maude Gulf, and with our self-powered remote research labs. We are also well connected to many Nunangat communities and potential Inuk PIs - check out our website ([arcticfocus.org/about/](http://arcticfocus.org/about/))

### Sara Mynott

Hi All, I'm a Knowledge Broker & postdoc based in the Marine Ethnoecology Lab at University of Victoria (also affiliated with institutions in the UK and Australia). My expertise is in enabling and facilitating co-design, and bridging gaps between diverse groups and disciplines. I am particularly interested in community-led work and enabling climate adaptation in coastal regions. Keen to connect ([saramynott@uvic.ca](mailto:saramynott@uvic.ca)) & delighted to e-meet you all!

### Philippe Blondel

Philippe here, from the University of Bath (UK). My speciality is soundscapes and marine habitats, e.g. fish populations, ecosystem stressors, mitigation and adaptation. I have field experience (including in the Arctic) and already collaborate with Canadian researchers. (<https://researchportal.bath.ac.uk/en/persons/philippe-blondel>). I am particularly interested in learning more about local community priorities. What will be useful to people on the ground? How can we truly work together? If interested or looking to start a conversation, please email [pyspb@bath.ac.uk](mailto:pyspb@bath.ac.uk).

### Rowena Stern

Hello everyone, Rowena Stern here from the marine biological association in the UK and together with Clare Ostle organise continuous plankton recorder survey in arctic waters and temperate pacific waters. My interest are in harmful microbes in the water and their links to ecology and human health, and improving monitoring and predicting issues and would be keen to get in touch with Inuit and Nunangat researchers

My email is [rost@mba.ac.uk](mailto:rost@mba.ac.uk)

### Rachel Jeffreys

Hello All, Rachel Jeffreys here from University of Liverpool. I have expertise in stable isotopes and molecular biomarkers using these to understand food webs over both pan-Arctic spatial scales and decadal time scales via inert tissues. Our lab has worked from the bottom of the food web up to key predators in the Arctic. We have good collaborations with researchers at DFO. We are using our

data in isotope models (PISCES -ISO) and population models e.g. for harp and ringed seals. Our lab website is here: <https://www.liverpool.ac.uk/earth-ocean-and-ecological-sciences/research/oceans-sciences/oceans-and-climate/facilities-and-services/lifer-lab/> Our UK CAO funded project website is here: <https://arcticarise.wordpress.com> Happy to be contacted at [jeffreys@liverpool.ac.uk](mailto:jeffreys@liverpool.ac.uk)

### **Jacob Stolle**

Hi everyone, Jacob Stolle from INRS in Québec. My speciality is in coastal engineering interested in the erosion of permafrost coastlines and the design of resilient coastal infrastructure for coastal flooding. I am interested in working with local communities to better understand how we can design resilient infrastructure in a challenging environment. Happy to connect with Inuit and UK researchers at [jacob.stolle@ete.inrs.ca](mailto:jacob.stolle@ete.inrs.ca)

### **Muhammad Shakir**

Hello all Zeeshan Shakir here from University of the West of Scotland. My expertise are in sensor networks and connectivity for remote condition monitoring. Looking for Canadian local partners in improving health for Inuit. PI contact [Muhammad.Shakir@uws.ac.uk](mailto:Muhammad.Shakir@uws.ac.uk) Look at my web <https://research-portal.uws.ac.uk/en/persons/muhammad-zeeshan-shakir-shakir>

### **Jun Zang**

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### **Anthony Specca**

Good-day/bonjour/ullakut — my name is Anthony Specca, and I specialise in in-person and online experiential learning events for secondary-school and university students, particularly Model Arctic Council (MAC), in which youth participants play the roles of diplomats from Arctic states and Arctic Indigenous organisations seeking to negotiate a consensus approach to pressing issues facing the Arctic and its peoples. My MACs for schools are unique in the world. I'd be keen to explore possibilities for youth outreach connected with research under this grant framework — the negotiated at a MAC can include a very broad range of challenges in sustainable development and environmental protection, and they necessarily involve Indigenous perspectives. To learn more, please see examples at <http://normac.polaraspect.com/>, <http://omac.polaraspect.com>, <http://trykomac.polaraspect.com/> — and please don't hesitate to be in touch with me via <http://www.polaraspect.com> or at [anthony.specca@polaraspect.com](mailto:anthony.specca@polaraspect.com) .

### **Emma McKinley**

Hi everyone! Great to see you all here. Emma McKinley from Cardiff University/ Marine Social Science Network - I'm a marine social scientist, and have expertise in understanding issues relating to perceptions of ocean and coastal spaces, and climate change; ocean literacy and social values relating to blue spaces; community and stakeholder engagement relating to a range of topics, including ecosystem services, climate change, blue economy, marine planning, and community

wellbeing, and how this feeds into governance and decision making. Please contact me on [mckinleye1@cardiff.ac.uk](mailto:mckinleye1@cardiff.ac.uk)! Thanks!

### **Clara Manno**

Hi, I am Clara Manno from British Antarctic Survey (UK). My research experience is focus on the impact of anthropogenic stressors on marine ecosystem service. I have a special focus on microplastic pollution impact on marine food web and carbon cycle I am interesting to open a discussion with local community to better understand priority need and how my expertise can fit in. Thank you for the fantastic opportunity. [clanno@bas.ac.uk](mailto:clanno@bas.ac.uk)

### **Bobby Farnan**

Hi all, Bobby here. I'm a Canadian Research Associate based at the Stockholm Environment Institute (SEI) at the University of York in the UK. I'm a critical social scientist with ethnographic research expertise in environmental governance, climate resilience, and participatory approaches to development. My work seeks to foreground issues of political capability and socio-political marginalisation in settler societies, particularly as it relates to infrastructure and public service provisions, such as access to housing and water, associated with human security and well being. I'd be really excited to make connections with potential Inuk PIs and collaborators that would be interested in co-developing a research proposal. My email is: [bobby.farnan@york.ac.uk](mailto:bobby.farnan@york.ac.uk) Thank you very much for this opportunity!

### **Gareth Phoenix**

Hi everyone. I'm Gareth Phoenix from the University of Sheffield (UK) researching the impacts of climate change on arctic terrestrial ecosystems, including vegetation change, permafrost thaw, and greenhouse gas emissions feedback to climate. Among these interests, I'm keen to explore how climate change will impact permafrost thaw and the consequences of that for infrastructure, such as roads / buildings, or habitat, and the role ecosystems may play in mitigating or exacerbating those response. Contact: [g.phoenix@sheffield.ac.uk](mailto:g.phoenix@sheffield.ac.uk)

### **Rola Harmouche**

Hello all, I am Rola Harmouche from Simulation and digital health section at the National Research Council Canada. Our team has expertise in the development of interactive, immersive and gamified software for cognitive assessment and rehabilitation, using virtual reality, and adaptable to mobile platforms. We have collaborations with experts in mental health and substance use disorders among youth and young adults. We also have experience in machine learning, including its application in the area of opioid as part of an involvement with one of Canada's superclusters. Many of our activities rely on passively acquired information, e.g. from sensors or activity logs, which allow for user-tailored approaches and remote monitoring of risk factors and intervention efficacy. We mainly seek collaborators with expertise or a strong interest in mental health who are part of Inuit Nunangat communities.

### **Saeid Homayouni**

Saeid Homayouni, researcher in environmental applications of Earth observations and remote sensing, from the Centre for Water, Earth and Environment at INRS-Quebec. Since 2009, we have been setting up a network of cameras in the North to monitor environmental conditions: the Cameras for Marine Infrastructures in Nunavik (CAIMAN: <http://caiman.ete.inrs.ca/>). [saeid.homayouni@ete.inrs.ca](mailto:saeid.homayouni@ete.inrs.ca)

## **Michel Tsamados**

Hi all I am from UCL UK looking for Inuit feedback on how YOU would like to use our sea ice roughness/thickness product. I have just put together a page with some more info on our product and my contact details for feedback ([m.tsamados@ucl.ac.uk](mailto:m.tsamados@ucl.ac.uk) + @micheltsamados) -> <https://github.com/mimi1981/InuitNunangat/blob/main/README.md> Looking forward to hearing back from you :-)

## **Mike Heath**

Hello, Michael Heath here from the University of Strathclyde, Glasgow UK. I lead the MiMeMo project in the UK Changing Arctic Ocean programme.. <https://www.changing-arctic-ocean.ac.uk/project/mimemo/> In MiMeMo we have developed an Arctic marine end-to-end (physics to maritime mammals) fisheries/foodweb/ecosystem model system. The model can be configured to include both industrial and artisanal fishing sectors, and enables scenario experiments to explore the indirect interaction between sectors (through food-web effects) and under different climate states. We have applied the model to Barents Sea and currently working on the east Greenland shelf. In an effort to make this science widely available we've developed a web-interface to the model to make it possible for anyone with an internet connection to become a modeller and conduct scenario experiments. We are keen to explore if/how the model tools we have developed might contribute to the Canada-Inuit-UK programme. Contact: [m.heath@strath.ac.uk](mailto:m.heath@strath.ac.uk)

## **Ben Murray**

Hi all, I am Ben Murray from the University of Leeds. I am interested in atmospheric mineral dust emissions in the Nunangat region and their impact on health as well as on clouds and climate. I am not aware of any measurements of dust in this region, but our models suggest it is a major dust source. I would like to find local partners to work with on this challenge. [b.j.murray@leeds.ac.uk](mailto:b.j.murray@leeds.ac.uk)

## **Géraldine Gouin**

Ullaakut all,

I am Geraldine, working at the Nunavik Research Centre (Makivik corp.) in Kuujuaq, Nunavik. I am interested in emergent wildlife diseases, particularly zoonoses or diseases affecting food security (by affecting country food or important Arctic species). I am hoping to increase interest in science to Nunavik youths, by creating a summer internship at the Research Centre. To allow Inuit Self-determination in research, we are looking for partners to develop field-techniques and protocols for serological or molecular monitoring of diseases in wildlife. Contact: [ggouin@makivik.org](mailto:ggouin@makivik.org)

## **Carol Brown-Leonardi**

Hi I am Carol Brown-Leonardi, I am a researcher at the Open University UK. My research experience is in Canadian land settlement policy to explore some of the cultural concepts that that shape local notions of ownership. I am interested in the changing environment and the challenges involved in conserving the arctic environment and food security. I would grateful for interested Canadian partners to contact me on [Carol.Brown-Leonardi@open.ac.uk](mailto:Carol.Brown-Leonardi@open.ac.uk)

## **Alison Ferrie**

Hello everyone, I am with NRC-ACRD (Aquatic Crop Resource Development). My focus is on plant tissue culture and crop development. However our facilities have research in a number of different areas of plant research in a wide range of plant species. My email is [Alison.Ferrie@nrc-cnrc.gc.ca](mailto:Alison.Ferrie@nrc-cnrc.gc.ca). I would be happy to discuss further or connect you with our other researchers.

### **Hannah Wauchope**

Hi/Bonjour/Ullaakut everyone, I'm Hannah Wauchope at the University of Exeter, UK. I'm interested in species responses to climate change, especially in how they change distributions and effects to population health. I'm currently trying to understand how species managed climate change since the last ice age to make better predictions about the future, but I would love to know what kind of questions are most useful to communities and to work together to do research that provides helpful outcomes. I'd love for anyone to get in touch if keen, [hannah.wauchope@gmail.com](mailto:hannah.wauchope@gmail.com)

### **Andrew MacColl**

Hi everyone, I'm Andrew MacColl at the University of Nottingham. I am an evolutionary ecologist interested in how Arctic organisms will adapt to environmental change, through evolution and colonisation of new areas/habitats, and the effect that this will have on natural communities through competition, predation and parasitism. I am especially interested in evolution in fish populations and communities in freshwater and coastal environments, and the downstream consequences for other organisms. Please get in touch if you have any shared interests: [andrew.maccoll@nottingham.ac.uk](mailto:andrew.maccoll@nottingham.ac.uk)

### **Jeremie Gilbert**

Hello, I am a human rights legal scholar and practitioner - I have supported Indigenous rights claims under international human rights law. I am especially focusing on the rights of mobile, semi-nomadic and formerly nomadic communities - exploring how their rights can be framed in law to support specific livelihoods and cultural heritage – notably in context of climate change – and exploring the relationship between human rights and climate change policies. Never worked with communities in Inuit Nunangat - but happy to join teams that are looking to integrate an Indigenous rights perspective, as well as a mobility / nomadic livelihood elements in the climate change research and advocacy. Profile: <https://pure.roehampton.ac.uk/portal/en/persons/jeremie-gilbert>

### **Luci Marshall**

Hello all, Lucianne Marshall - I work as a community support specialist with Ocean Networks Canada (ONC). My role at ONC is to support and facilitate community based ocean monitoring that is often led by our First Nations, Inuit and organization partners. <https://data.oceannetworks.ca/GeospatialMap>

### **Nick Mercer**

Hi folks - Nick Mercer here. Regional Energy Coordinator with Nunatsiavut Government. We are exploring a tidal energy research, development, and demonstration project in two of our communities - Postville and Rigolet.

### **James Bradley**

Hi everyone! I'm James Bradley, Lecturer at Queen Mary University of London in the UK. I combine experimental and modelling approaches in geomicrobiology and biogeochemistry to look at microbes and biogeochemical cycles in polar environments including permafrost, snow and ice

### **Ronald Pelot**

Hi all. Ronald Pelot here. I am a Professor of Industrial Engineering at Dalhousie University in Halifax. I specialize in shipping traffic and risk modelling, including safety and security. I am looking at issues of access, remoteness, and emergency response around shipping in the North. I am particularly interested in this CFP's topic: "the associated impacts and opportunities of marine

transportation upon housing stock, food security and safety, both environmental and personal” email me if you are interested in discussing collaboration: [Ronald.pelot@dal.ca](mailto:Ronald.pelot@dal.ca)

### **Steven Benjamins**

Good afternoon - Steven Benjamins here. I am a marine ecologist at the Scottish Association for Marine Science in Oban on the west coast of Scotland. I'm here representing a research group with interests in marine (mammal) ecology and marine acoustics, as well as focusing on interactions with marine industries such as fisheries, aquaculture and marine renewable energy. Looking forward to developing collaborative connections through this great new opportunity.

### **Paul Burgum**

Hi everyone, early stage PhD researcher at Durham University in Psychology interested in resilience and well-being especially in regard to supporting youth in the regions. 20 years experience working in community and youth settings on an applied basis and hoping to build relationships and knowledge sharing. Also link the academic and applied aspects. Simply love to chat - [paul.burgum@durham.ac.uk](mailto:paul.burgum@durham.ac.uk)

### **Matt Lewis**

Matt Lewis here from Bangor University (UK). [M.j.lewis@bangor.ac.uk](mailto:M.j.lewis@bangor.ac.uk)  
I am an ocean modeller - waves, tides and dispersal - with application to flood risk, renewable energy and physical process prediction in the marine system ([www.bangor.ac.uk/oceansciences/staff/matthew-lewis](http://www.bangor.ac.uk/oceansciences/staff/matthew-lewis)), as well as part of digital environment ([digitalenvironment.org/home/digital-environment-expert-network/](http://digitalenvironment.org/home/digital-environment-expert-network/)).  
Interested in joining a project, but personally looking at ideas of translating oral history/practice to inform environmental data (baseline and potential changes) and resilient practice; changing waves in the arctic (increased fetch as ice extent is reduced, but also tsunami risk); future resilient 100% renewable energy systems for off-grid communities.

### **Yueng Lenn**

Hello all, I'm Yueng Lenn from Bangor University Wales and a physical oceanographer. My research interests have focused on mixing and turbulence in the Arctic Ocean and its impact on sea ice, northern hemisphere weather and the marine ecosystem. But I'd also be really curious to work more cross-disciplinary with social science for instance to see how arctic change may or may not be driving interest and engagement with science amongst Inuit stakeholders

### **Rob Brown**

Hi Everyone, my name is Rob Brown and I'm a research scientist at the Marine Institute, Memorial University of Newfoundland in Canada. My research focuses on engineering and human factors issues relating to safety and survival in harsh environments (e.g. modelling of ship evacuation, survival and rescue). I'm interested in developing/testing PPE to mitigate the risk to people involved in subsistence activities caused by uncertain ice conditions. Keen to chat with anyone with similar interests! [Rob.Brown@mi.mun.ca](mailto:Rob.Brown@mi.mun.ca)