



# Berill Blair

Researcher

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## EDUCATION

2017

### PhD Natural Resources and Sustainability

University of Alaska Fairbanks

Resilience & Adaptation Program Fellow

2010

### MA Global Environmental Policy

University of Alaska Fairbanks

2002

### BS Computer Science

Western Oregon University

## RESEARCH THEMES

coproduction

climate change adaptation

cross-sector partnerships

stakeholder management

responsible innovation

futures literacy

participatory modeling

social-ecological systems

coastal & marine governance

risk & disaster governance

## ACADEMIC POSITIONS

2022-

### Associate Professor of Sustainability

SKEMA Business School -Paris (France)

2017 - 2022

### Postdoctoral Researcher

Wageningen University and Research (Netherlands),

**Principal Investigator:** FOCUS project (01.2021-09.2021)

**Work package lead:** SALIENSEAS project (09.2017-01.2021)

**Topics:** co-production of knowledge; climate services; responsible innovation; adaptation governance; resilience

**Tasks:** usability testing; scenario development; stakeholder engagement; actionable science; innovating co-production approaches (*foresight methods, focus groups, simulation/gaming, agent-based modeling*), consensus analysis

2012 - 2017

### PhD Fellow

University of Alaska Fairbanks (USA), International Arctic Research Center

**Topics:** resilience & adaptation; climate change; socioeconomic drivers of change; community wellbeing; Indigenous Knowledge; food security in subsistence economies; disaster resilience; adaptive governance

**Tasks:** policy analysis; qualitative content analysis; risk perception modeling; cross-cultural communication; interdisciplinary collaboration; complex multivariate statistical analyses; cultural consensus analysis

## AWARDS, GRANTS

### EUR 1.3 million

Principal Investigator for Wageningen University contribution in consortium. Norwegian Research Council Grant (Project no. 301450). "Accounting for forecast uncertainties in communicating sea-ice and weather information in the Arctic (FOCUS)" project.

### USD 22,000

Resilience and Adaptation Program Fellowship Grant, UAF

### USD 9,900

National Science Foundation EPSCoR Fellowship Grant, UAF

### USD 7,100

Various travel grants: National Science Foundation IGERT Travel Grant; IASC/RATIC-APECS Travel Award; Arctic-FROST Early Career Fellow Grant

## MAJOR COLLABORATIONS

### Principal Investigator (WP3) (2021-2021)

FOCUS (Accounting for forecast uncertainties in communicating sea-ice and weather information in the Arctic). MET Norway, NAVTOR AS, Hurtigruten, Wageningen University, Copernicus Marine Service, Nansen Environmental and Remote Sensing, Barents Watch.

### Work Package Lead (2017-2021)

SALIENSEAS (Enhancing the Saliency of climate services for marine mobility Sectors in European Arctic Seas). Wageningen University, MET.no, DMI.dk, UiT.no, Umea University

### Working Group Member (2016-2017)

AMAP (Arctic Monitoring and Assessment Programme Working Group of the Arctic Council)

### Research Fellow (2013-2016)

Northern Alaska Scenarios Project / International Arctic Research Center, University of Alaska Fairbanks, USA

2007 - 2010

## Teaching & Research Assistant

University of Alaska Fairbanks (USA), Department of Political Science

**Topics:** political economy; oil development impacts on mixed cash-subsistence economies; polar bear policies of range states

**Tasks:** lecturing students; grading exams; comparative analysis of risk management regimes; stakeholder interviews

## TEACHING

Lecturer, Wageningen University & Research

- Ocean and Coastal Governance (graduate course)
- Environment and Development (graduate course)

Thesis supervisor, Wageningen University & Research

- Supervisor for Master's and Bachelor's students

Course project supervisor, Wageningen University & Research

- Principles of Environmental Sciences (graduate course)
- Environmental Project Studies (Bachelor's course)

Examiner, Wageningen University & Research

- International Study Visits (Bachelor's course)

Teaching Assistant, University of Alaska Fairbanks

- Political Economy of the United States (Bachelor's course)

## PUBLICATIONS

### ARTICLES

Blair, B., Malte, M., Palerme, C., Blair, R., Crookall, D., Knoll-Kauffman, M., Lamers, M. (revised & resubmitted). Coproducing Sea-Ice Predictions Using Simulation-Gaming. *Weather, Climate and Society*. [14\(2\):399-413](#).

Rautenbach, C., & Blair, B. (2021). Marine Meteorological forecasts for Coastal Ocean Users—Perceptions, Usability and Uptake. *Geoscience Communication* 4(3):361-381.

Blair, B., & Kofinas, G. P. (2020). Cross-scale risk perception: differences between tribal leaders and resource managers in Arctic Alaska. *Ecology and Society*, 25(4):9.

Blair, B., & Lovcraft, A. L. (2020). Risks Without Borders: A Cultural Consensus Model of Risks to Sustainability in Rapidly Changing Social-Ecological Systems. *Sustainability*, 12(6), 2446.

## Research Fellow (2012-2017)

“Alaska Adapting to Changing Environments” an EPSCoR (National Science Foundation) project.  
University of Alaska Fairbanks, USA

## Working Group Member (2007-2008) 4th

International Polar Year: Indigenous Knowledge and Western Science Group /  
University of Alaska Fairbanks, USA

## PROFESSIONAL SERVICE

### Conference/Workshop Organization

#### Workshop Convener, Lead

2020 Simulation / serious gaming workshop, Tromsø, Norway

2018 Stakeholder Advisory Group workshop, Tromsø, Norway

2018 Scenario development workshop, Copenhagen, Denmark

#### Workshop Coordinator/Moderator

2018 European Polar Board Open Session (PPP-SERA)  
The Hague, Netherlands

2015 Scenario development workshops with 3 rural communities: Utqiagvik | Kotzebue | Anchorage in Alaska, USA

#### Conference Session Chair

2014 Resilience 2014 conference, Montpellier, France  
Session “Pathways of Resilience in a Rapidly Changing Alaska”

#### Consultancy, Peer Review

Consultant, Polar Research and Policy Initiative, London, U.K.

Reviewer, Ecology and Society | Polar Geography | Society and Natural Resources

#### Service to University and Department

Employee Council, Social Sciences Group, Wageningen University & Research

Data Management Policy, Environmental Policy Group, Wageningen University & Research

#### Memberships

Resilience Alliance Foresight

Europe Network

**Blair, B.**, Lee, O. A., & Lamers, M. (2020). Four Paradoxes of the User-Provider Interface: A Responsible Innovation Framework for Sea Ice Services. *Sustainability*, 12(2), 448.

**Blair, B.**, A. L. Lovecraft, and G. P. Kofinas. 2014. Meeting Institutional Criteria for Social Resilience: A Nested Risk System Model. *Ecology and Society* 19(4): 36.

#### under review / in revision:

**Blair, B.**, Gierisch, A.M.U., Jeuring, J., Olsen, S.M., Lamers, M. Mind the gap! A consensus analysis of users and producers on the usability of new sea-ice information. (revised & resubmitted) *Climate Services*.

Lee, O., Eicken, H., **Blair, B.**, Sam, J.M. (revised & resubmitted) Scenarios of energy development on the North Slope of Alaska to prioritize research and monitoring needs. *Polar Geography*.

Lovecraft, A.L., Lee, O., Cost, D.S., **Blair, B.**, Mueller-Stoffels, M., Fresco, N., Hillmer-Pegram, K., Hum, R., Eicken, H. (in review) Managing Alaska Social-Environmental Systems in a New Arctic Mid-Century: A Synthesis of Five Participatory Scenarios. *Sustainability*

## BOOK CHAPTERS

**Blair, B.**, Lovecraft, A., Hum, R. (2018). The Disaster Chronotope: Spatial and Temporal Learning in Governance of Extreme Events. In S. Bonati., L.M. Calandra, and G. Forino (Eds.) *New Trends for Governance of Risks and Disasters: Theory and Practice*. Routledge: Abingdon, Oxfordshire, U.K.

## SCIENTIFIC REPORTS, WHITE PAPERS

Máñez Costa, M.; Oen, A.M.P.; Neset, T.-S.; Celliers, L.; Suhari, M.; Huang-Lachmann, J.-T.; Pimentel, R.; **Blair, B.**; Jeuring, J.; Rodriguez-Camino, E.; Photiadou, C.; Columbié, Y.J.; Gao, C.; Tudose, N.-C.; Cheval, S.; Votsis, A.; West, J.; Lee, K.; Shaffrey, L.C.; Auer, C.; Hoff, H.; Menke, I.; Walton, P.; Schuck-Zöller, S. (2021). Co-production of Climate Services: A diversity of approaches and good practice from the ERA4CS projects (2017–2021). CSPR Report No 2021:2, Centre for Climate Science and Policy Research, Norrköping, Sweden. [\[URL\]](#)

**Blair, B.** and Muller-Stoffels, M. (2019). Maritime Futures 2035: The Arctic Region: Workshop Report & Technical Documentation. Wageningen University. [\[URL\]](#)

Lamers, M.A.J., Knol, M., Müller, M., **Blair, B.**, Jeuring, J.H.G., Rasmussen, T. and Sivle, A., (2018). Enhancing the Saliency of climate services for marine mobility sectors in European Arctic seas (SALIENSEAS): Stakeholder Advisory Group workshop report. Wageningen University. [\[URL\]](#)

European Geophysical Union

International Arctic Social Sciences Association

## COPRODUCTION PORTFOLIO

healthy, sustainable communities; resilient maritime sectors; socioeconomic narratives; climate services



Tromsø: simulation/gaming



Copenhagen: Arctic scenarios



Tromsø: risk mapping



The Hague: mariner perspecti..



Utqiagvik, Alaska: scenarios



Kotzebue, Alaska: scenarios

## OUTREACH & FACILITATION

engagement with policy makers; actionable science; public outreach; engaging students in active learning



Danish Parliament: SDGs



Onboard m/v Hondius



UNESCO-Futures Literacy



Serious gaming w/students

Lovecraft, A.L., Fresco, N., Cost, D., **Blair, B.** (2018). *Northern Alaska Scenarios Project Report*. International Arctic Research Center, University of Alaska Fairbanks. [URL]

Preston, B.L., Lovecraft, A.L., Cost, D., **Blair, B.**, Lee, O., Hillmer-Pegram, K., Wesche, S., Hum, R., Absar, M., Ernst, K., Fresco, N. (2017). *Scenarios Thinking for the Bering / Chukchi / Beaufort Region*. In *Adaptation Actions for a Changing Arctic*. Arctic Monitoring and Assessment Programme (AMAP) of the Arctic Council, Oslo, Norway.

Menezes, D.R., Milheres, C., Field, T., **Blair, B.**, Mutual, A. (2017) *Closing the STEM skills gap inquiry: Written Evidence Submitted to the U.K. Parliament Science and Technology Committee. The Honourable the Commons of the United Kingdom of Great Britain and Northern Ireland in Parliament Assembled.*

## MONOGRAPHS

**Blair, B.** (2017). *Toward Arctic Transitions and Sustainability: Modeling Risks and Resilience Across Scales of Governance*. University of Alaska Fairbanks.

**Blair, B.** (2010). *Risk Society On The Last Frontier: Indigenous Knowledge And The Politics Of Risk In Oil Resource Management At Alaska's North Slope*. University of Alaska Fairbanks.

## PUBLIC INTEREST

**Blair, B.** (2019). *Climate Vulnerability Index for World Heritage: From Orkney to the Arctic*. *Polar Research and Policy Initiative*. [URL]

**Blair, B.** (2017). *U.S. Arcticness 150 Years After the Alaska Purchase*. *Polar Research and Policy Initiative*. [URL].

**Blair, B.** (2016). *Beyond Transitions: US Arctic Leadership and the Future for Climate-Displaced Populations*. *Polar Research and Policy Initiative*. [URL].

## SELECT PRESENTATIONS

2021 "Experiences from the SALIENSEAS Project" - *Co-production in the European Arctic Weather, Water, Ice and Climate Services, PPP-SERA Workshop* [online]

2020 "Foresight Work in the SALIENSEAS Project" - *Roundtable, Foresight Europe Network* [online]

2020 "ICEWISE: A game to test the effects of sea ice forecast reliability on voyage planners' confidence" *General Assembly, European Geophysical Union* [online]

## REFERENCES

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**Dr. Machiel Lamers**, Associate Professor,  
Environmental Policy Group, Wageningen University  
and Research. Post Box 8130, 6700EW,  
Wageningen, Netherlands  
machiel.lamers@wur.nl +31 317 484274

**Dr. Malte Müller**, Research Professor  
Norwegian Meteorological Institute.  
P.O. Box 43 Blindern, N-0313 Oslo, Norway  
maltem@met.no

**Prof. Amy Lauren Lovecraft**, Director Center for Arctic  
Policy Studies/Professor Department of Political  
Science. University of Alaska Fairbanks  
P.O. Box 756420 Fairbanks, AK 99775-6420 USA  
alovecraft@alaska.edu +1 907 474 6958

## LANGUAGES

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English: Native fluency

Hungarian: Native fluency

Dutch: Beginner

## CITIZENSHIP

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Dual US / Hungarian citizenship

2020 "Socio-economic scenarios to aid coproduction of climate services in sea ice social-ecological systems" - *Arctic Frontiers*, Tromsø, Norway.

2019 "An Agent-based Mobilities Assessment for Enhanced Arctic Climate Services" - *Polar 2018 Conference*, Scientific Committee on Antarctic Research and the International Arctic Science Committee, Davos, Switzerland.

2018 "Participatory risk and vulnerability assessment to decrease uncertainties in Arctic weather and sea-ice forecasting"  
- *Arctic Frontiers*, Tromsø, Norway.

2017 "Toward Arctic Transformations and Sustainability: Modeling Risks and Resilience Across Scales of Governance"  
- *Globalizing Polar Issues* conference, Crans-Montana, Switzerland.

2017 "Modeling Risk Priorities: Comparing Views on Sustainability between North Slope Tribal Leaders and State and Federal experts" - *Alaska Forum on the Environment*, Anchorage, Alaska USA.

2015 "Raising the New Without Razing the Old: Arctic Alaska Communities Navigating Sustainability and Risks in the New Millennium"  
- *1st Central European Polar Meeting*  
Vienna, Austria.

2015 "Scenarios planning as a tool for risk management" - *Alaska Forum on the Environment*, Anchorage, Alaska USA.

2014 "Engaging scale and meaning in formulating policy learning for disaster governance" - *Arctic Change Conference*, Ottawa, Canada.

2014 "Long-term planning for healthy sustainable communities: A focus on risks, learning and education" - *Arctic Science Conference*, Fairbanks, Alaska USA.

2014 "Meeting institutional criteria for social resilience: a nested risk system model" - *Resilience 2014 Conference*, Montpellier, France

2014 "Risk Perception as a Complex Dynamic System: Scenarios as a Tool for Assessment" - *Alaska Forum on the Environment*, Anchorage, Alaska USA.