

SARAH FLEISHER TRAINOR

CURRICULUM VITAE

October 2, 2016

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EDUCATION

Ph.D. in Energy and Resources University of California, Berkeley. Berkeley, CA	2002
M.A. in Energy and Resources University of California, Berkeley. Berkeley, CA	1998
B.A. in Philosophy and Environmental Studies. Magna cum laude Mount Holyoke College: South Hadley, MA	1992
International Honors Program. Global Ecology Bard College: Annandale-on-Hudson, NY	1990-1991

PROFESSIONAL EXPERIENCE

Assistant Professor of Social-Ecological Systems Sustainability University of Alaska, Fairbanks. School of Natural Resources and Extension	8/14 - present
Research Associate Professor, University of Alaska, Fairbanks International Arctic Research Center and Institute of Northern Engineering (joint apt.)	7/13 - present
Research Assistant Professor, University of Alaska, Fairbanks International Arctic Research Center (joint apt. with INE)	7/12 - 6/13
Institute of Northern Engineering (INE)	9/06 - 6/13
School of Natural Resources and Agricultural Sciences (joint apt. with INE)	6/07 - 6/12
Director, Alaska Center for Climate Assessment and Policy (ACCAP) University of Alaska, Fairbanks (www.accap.uaf.edu) Funded by the NOAA Climate Program Office, ACCAP is one of eleven Regional Integrated Sciences and Assessment (RISA) Programs nation-wide. ACCP's mission is to improve the link between climate science and society. ACCAP conducts decision-relevant research in climate science, adaptation, vulnerability and communication. We partner with stakeholder agencies and organizations to ensure that scientific research is designed and conducted with a focus on the end-user and application.	10/11 - present
Director, Alaska Fire Science Consortium University of Alaska, Fairbanks (akfireconsortium.uaf.edu) The Alaska Fire Science Consortium is funded by the Joint Fire Sciences Program and is one of fourteen consortia nation-wide whose mission is to enhance the communication and application of fire science findings by developing a national network of regional science/management partnerships.	9/09 - present
Stakeholder Liaison, Scenarios Network for Alaska & Arctic Planning (SNAP) University of Alaska, Fairbanks (www.snap.uaf.edu) SNAP is a collaborative network of the University of Alaska, state, federal, and local agencies, non-governmental organizations and industry partners with a mission to provide timely access to scenarios of future conditions in Alaska for more effective planning by decision-makers, communities, and industry.	6/07 - 4/14

Coordinator, Alaska Center for Climate Assessment and Policy (ACCAP) University of Alaska, Fairbanks (www.accap.uaf.edu)	9/06 - 9/11
Post-Doctoral Fellow, Arctic System Science, Institute of Arctic Biology University of Alaska, Fairbanks	10/03 - 9/06
Associate Chair, Lecturer and Research Associate, Environmental Studies Program The University of Chicago	9/02 - 7/03

HONORS

Green Carpet Award	UAF Office of Sustainability	2015
Finalist, Early Career Award for Public Engagement with Science	AAAS	2011
Sustainability Award	Ecological Society of America	2008
Phi Beta Kappa	inducted Mount Holyoke College	1992
Sigma Xi, Scientific Honorary Society	inducted Mount Holyoke College	1992

RESEARCH INTERESTS

Vulnerability and adaptation of northern communities to climate change. Communicating scientific information to inform planning and decision making in climate change adaptation and natural resource management. Human dimensions of global change in the arctic and northern latitudes. Interdisciplinary assessment of ecosystem services related to global change and mixed subsistence economies in rural Alaska.

PROFESSIONAL MEMBERSHIP

American Association for the Advancement of Science
Association of American Geographers

FUNDING

PROPOSALS PENDING

National Science Foundation. Pre-Proposal. *PIRE: United States - Russian Federation Partnership in Integrated Science, Engineering, and Emergency Management to Reduce Ice-Jam Flood Impact in the North*. 2016. PI: J.C. Eichelberger, Co-Is: J.E. Cherry, S. Steufer, C.H Tape, S.F. Trainor.

US Department of Agriculture. *Alaska Climate Adapters: Developing Community-Based Capacity to Meet Critical Adaptation Needs*. 2016. PI: J. Dawe, Co-Is: S.F. Trainor, N.L. Fresco, A. Veazey, G. Graziano, A. Norris, V. Barber, J. Parker-Webster. 1 year. \$250,000.

AWARDS GRANTED

US Department of Agriculture. *Linking Alaska to the USDA Climate Change Hub System*. 2016. PI: J. Dawe, Co-Is: S.F. Trainor, N.L. Fresco, A. York. 1 year. \$90,000.

National Science Foundation. *Research Education for Undergraduates Site: Understanding the Arctic as a system*. 2015. PI: V. Alexeev. Co-Is: S.F. Trainor, J. Walsh, E. Euskirchen, A. Liljedahl, I. Polyakov, V. Romanovsky. 3 years. \$340,159.

- National Oceanic and Atmospheric Administration. 2015. *The Alaska Center for Climate Assessment and Policy: Science, Decision-Support, and Capacity Building for Climate Resilience in Alaska*. PIs: S.F. Trainor and J. Walsh. Co-I: N. Kettle. 5 years. \$3,500,000.
- Bureau of Land Management. *Partnering with Land Managers to Explore Community Knowledge and Research Needs Relating to Arctic Wildfires*. 2015. PI: S.F. Trainor. 1 year. \$17,240.
- Bureau of Indian Affairs. *Development of tribal government climate adaptation plans for Nome, Alaska*. 2015. PI: N. Kettle. Co-I: J. Walsh, S.F. Trainor. 2 years. \$151,786.
- Joint Fire Science Program. *The Alaska Fire Science Consortium/ Knowledge Exchange: Building Enduring Connections Between Fire Science and Management in Alaska*. 2014. PI: S.F. Trainor. 2 years. \$400,000.
- Federal Highway Administration. 2013. *Support for assessing the impacts of climate change on transportation in Alaska*. PI: Billy Connor. Co-I: S.F. Trainor. 1 year. \$30,000.
- United States Fish and Wildlife Service, Western Alaska Landscape Conservation Cooperative. 2013. *Current Coastal Change Research and Priority Information Needs in Western Alaska*. PI: S.F. Trainor. Co-I: C. Knapp. 1 year. \$30,000. Updated 2015. *Current Coastal Change Research in Cook Inlet and South East Alaska*. 1 year. \$32,000.
- National Oceanic and Atmospheric Administration, National Marine Fisheries Service. 2013. *Preliminary Assessment for Vulnerability of Hydropower Production in Alaska to Climate Variability and Change: Best Practices for Communication and Application of Climate Science*. PI: J. Cherry. Co-I: S.F. Trainor. 1 year. \$75,002.
- United States Department of Interior. 2012. *Addressing Science and Planning Needs for Energy and Other Development Activities in Alaska*. Special Project for the Interagency Working Group on Coordination of Domestic Energy Development and Permitting in Alaska. PI: S.F. Trainor, Co-I: T.S. Rupp. 1 year. \$142,000.
- Cooperative Institute for Alaska Research UAF. 2012. *Quarterly Alaska Climate Seasonal Overview and Impacts*. PI: S.F. Trainor, Co-I: J. Walsh. 1 year. \$22,499.
- Joint Fire Sciences Program. 2012. *The Alaska Fire Science Consortium, Building Bridges Between Fire Scientists and Managers in Alaska*. PI: S.F. Trainor. 3 years. \$600,000.
- Alaska Ocean Observing System, funding from National Oceanic and Atmospheric Administration. 2012. *Visualization Tools for the U.S. Arctic*. PI: S.F. Trainor. Co-Is: J. Walsh, T.S. Rupp. 2-years. \$125,000.
- United States Geological Survey. 2011. *Climate induced impacts and assessment in Alaska: partnership for National Climate Assessment, Alaska Region*. PI: S.F. Trainor. Co-Is: J. Walsh, P. Loring. 1 year. \$75,000
- Alaska Ocean Observing System, funding from National Oceanic and Atmospheric Administration. 2011. *Sea Ice Atlas for Alaska*. PI: J. Walsh, Co-I: S.F. Trainor. 2 years. \$250,000
- National Oceanic and Atmospheric Administration, Climate Program Office, RISA Program. 2011. *Alaska Center for Climate Assessment and Policy, Interactive Climate Science for Alaska*. PI: S.F. Trainor. Co-Is: J. Walsh, T.S. Rupp, J. Mathis, P. Loring. 5 years. \$3,500,000.
- Joint Fire Sciences Program. 2011. Supplement Proposal: *In a Time of Change: The Art of Fire, Promoting Collaboration between the Arts and Fire in Alaska*, PI: S.F. Trainor. Co-I: Mary Beth Leigh. 1 year. \$22,220.
- The Wilburforce Foundation. 2011. *Climate Change Information, Analysis, and Capacity Building - Scenarios Network for Alaska*, PI: S.F. Trainor. Co-I: T.S. Rupp. 1 year. \$60,000.

- National Oceanic and Atmospheric Administration, Climate Program Office, National Climate Assessment, 2010. *Alaska Center for Climate Assessment and Policy (ACCAP) Regional Assessment Services: Assessing Stakeholder Capacity for Adaptation and Mitigation in Alaska*, PI: S.F. Trainor. Co-I: J. Walsh. 1 year. \$330,000.
- Joint Fire Sciences Program, 2010. *Joint Fire Sciences Program Regional Consortia Evaluation*. PI: L. Singletary. Co-Is: William Evans, S.F. Trainor, Toddi Steelman. 2 years. Joint Fire Science Program: Regional Consortia Evaluation. 2 years. \$264,872.
- Joint Fire Sciences Program 2010. *Wildland Fire Science Delivery and Outreach in Alaska*, PI: S.F. Trainor. Co-I: T.S. Rupp. 2 years. \$423,561.
- The Wilburforce Foundation. 2009. *Capacity Building in Climate Change Information and Application for the Alaska Arctic and Tongass National Forest*, PI: S.F. Trainor. Co-I: T.S. Rupp. 1 year. \$59,998.
- Joint Fire Sciences Program 2009. *Wildland Fire Science Delivery and Outreach in Alaska*, PI: S.F. Trainor. Co-I: T.S. Rupp. 1 year. \$159,000.
- National Oceanic and Atmospheric Administration, Climate Program Office, Coping with Drought Initiative, 2009. *Evaluation of Fire Forecast Products to Enhance U.S. Drought Preparedness and Response*, PI: Dan Ferguson Co-Is: T. Brown, G. Owen, P. Duffy, S.F. Trainor, . 1 year. \$102,977.
- U.S. Forest Service, 2009. *Assessing the Impact of Climate Change in Alaska: Current Trends and Future Projections for Forests*, PI: T.S. Rupp. Co-Is: T. Hollingsworth, S.F. Trainor, N. Fresco. 2-years. \$80,000.
- National Oceanic and Atmospheric Administration, Climate Program Office, Coping with Drought Initiative, 2008. *Improving Seasonal Fire Predications and Information Services in Alaska for Regional and National Fire Resource Planning*, PI: S.F. Trainor. Co-Is: P. Duffy, D. Ferguson. 2 years. \$143,585.
- National Oceanic and Atmospheric Administration, Climate Program Office, Coping with Drought Initiative, 2008. *Local and Indigenous Climate Knowledge Network: Addressing Drought Vulnerability and Adaptation*, PI: S.F. Trainor. Co-Is: D. Ferguson, C. Anderson, G. Garfin. 1 year. \$87,501.

UNFUNDED COLLABORATIONS

From Data to Knowledge in Climate Science, Adaptation, and Policy: A Case Study of the Alaska Center for Climate Assessment and Policy. Collaboration with S. Paquette, University of Maryland.

PUBLICATIONS

JOURNAL ARTICLES

- D. Stanitski, M. Druckenmiller, F. Fetterer, M. Gerst, J. Intrieri, M. A. Kenney, W. Meier, J. Overland, J. Stroeve, **S. F. Trainor**. Arctic Indicators of Change. (In Prep). *Climatic Change*.
- J. Cherry. C.N. Knapp, **S.F. Trainor**, A. Ray, M. Tedesche, and S. Walker. (In Revision) Planning for climate change impacts on hydropower in the Far North. *Hydrology and Earth System Sciences*.
- Trainor, S.F.**, J. Walsh, J.B. Gamble. (In Revision) Human Adaptation to Climate Change in Alaska: Overview and Recommendations for Future Research and Assessment. *Arctic*.
- Kettle, N., **S.F. Trainor**. (2015) The role of remote engagement in supporting boundary chain networks across Alaska. *Climate Risk Management*. (9), 6-19. <http://dx.doi.org/10.1016/j.crm.2015.06.006>.

- Frisch, L., J. Mathis, N. Kettle, **S.F. Trainor**. (2015) Gauging Perceptions of Ocean Acidification in Alaska. *Marine Policy*. 53:101-110. <http://dx.doi.org/10.1016/j.marpol.2014.11.022>.
- Knapp, C.N., **S.F. Trainor**. (2015) Alaskan stakeholder-defined research needs in the context of climate change. *Polar Geography*. <http://dx.doi.org/10.1080/1088937X.2014.999844>.
- Hong, E., R. Perkins, **S.F. Trainor**. (2014) Permafrost Settlement Hazard Related to Climate Warming in Alaska and Its Impact on Public Infrastructure. *Arctic*. 67:1, pp93-103. March 2014.
- Knapp, C.N, **S.F. Trainor**. (2013) Adapting science to a warming world. *Global Environmental Change*. Vol. 23, pp. 296–1306.
- Cochran, P., O. Huntington, C. Pungowiyi, S. Tom, F.S. Chapin III, H. P. Huntington, N. G. Maynard, **S. F. Trainor**. (2013). "Indigenous Frameworks and Observations of Climate Change in Alaska." *Climatic Change*. 120:557-567. DOI 10.1007/s10584-013-0735-2.
- Kocher, S., E. Toman, **S.F. Trainor**, V. Wright, et al. (2012). Wildland Fire Science and Management in the U.S.: Spanning the Boundaries through the Regional Knowledge Exchange Network. *Journal of Forestry*. Vol. 110, No. 8, pp. 421-428.
- Gamble, J.B, **S. Trainor**, N. Fresco (2011) Assisting Arctic Inhabitants in Responding to a Changing Climate. *Rural Connections*. Vol. 5, Issue 2, pp.40-44.
- Díaz, S., F. Quétier, D. M. Cáceres, **S. F. Trainor**, N. Pérez-Harguindeguy, M. S. Bret-Harte, M. Peña-Claros, L. Poorter & B. Finnegan (2011) Linking functional diversity and social-actor strategies: a framework and tool for interdisciplinary analysis of ecosystem services. *Proceedings of the National Academy of Sciences*. Vol. 108: No. 3, pp. 895-902.
- J. Wolken, T.S. Rupp, T. Hollingsworth, **S. F. Trainor**, et. al. (2011) Evidence and implications of recent and projected climate change on Alaska's forest ecosystems. *Ecosphere*. Vol. 2, Issue 11, art124.
- S.F. Trainor**, T.S Rupp, J. Barnes. (2010). Meeting Alaska's Fire Science and Climate Information Needs for Forest Managers. *Forest Wisdom*. Issue 16. Fall/Winter 2011, pp. 4-5, 13.
- S.F. Trainor**, F. S. Chapin, III, A. D. McGuire, M. Calef, N. Fresco, M. Kwart, P. Duffy, A. L. Lovecraft, T. S. Rupp, L. DeWilde, O. Huntington, D. D. Natcher, (2009). Vulnerability and Adaptation to Climate-Related Fire Impacts in Rural and Urban Interior Alaska. *Polar Research* 28:100-118.
- S. F. Trainor**, (2008). Finding Common Ground: Moral Values and Cultural Identity in Early Conflict over the Grand Staircase-Escalante National Monument. *Journal of Land, Resources, and Environmental Law*. Volume 28: (2), 331-359.
- F. S. Chapin III, **S. F. Trainor**, O. Huntington, A. L. Lovecraft, E. Zavaleta, D. C. Natcher, A. D. McGuire, J. Nelson, L. Ray, M. Calef, N. Fresco, H. Huntington, T. S. Rupp, L. DeWilde, R. Naylor, (2008). Increasing Wildfire in Alaska's Boreal Forest: Causes, Consequences, and Pathways to Potential Solutions of a Wicked Problem, 58:531-540. *Bioscience*.
- D.C. Natcher, O. Huntington, H. Huntington, F. S. Chapin III, **S. Trainor** and L. DeWilde, (2007). Notions of Time and Sentience: Methodological Considerations in Arctic Climate Change Research. *Arctic Anthropology*, Volume 44(2) : 115-129.
- S. F. Trainor**, F.S Chapin III, H.P. Huntington, G. Kofinas, D.C. Natcher, (2007). Arctic Climate Impacts: Environmental Injustice in Canada and the United States. *Local Environments: International Journal of Justice and Sustainability*. 12:6, 627-643.
- Natcher, D. C., M. Calef, O. Huntington, **S. Trainor**, H. P. Huntington, L. DeWilde, S. Rupp and F. Stuart Chapin III, (2007). Factors Contributing to the Cultural and Spatial Variability of Landscape Burning by Native Peoples of Interior Alaska. *Ecology and Society* 12 (1): 7. [online]URL: <http://www.ecologyandsociety.org/vol12/iss1/art7/>

- F. S. Chapin, III, A. L. Lovecraft, E. S. Zavaleta, J. Nelson, M. D. Robards, G. P. Kofinas, **S. F. Trainor**, G. Peterson, H. Huntington, R. L. Naylor, (2006). Policy Strategies to Address Sustainability of Alaskan Boreal Forests in Response to a Directionally Changing Climate. *Proceedings of the National Academy of Sciences*, 103(45) (November 2006): 16637 – 16643.
- H. P. Huntington, **S. F. Trainor**, D. C. Natcher, O. H. Huntington, L. DeWilde and F. Stuart Chapin III, (2006). The Significance of Context in Community-Based Research: Understanding Discussions about Wildfire in Huslia, Alaska. *Ecology and Society* 11 (1): 40. [online] URL: <http://www.ecologyandsociety.org/vol11/iss1/art40/>
- F. S. Chapin, III, M. Robards, H. P. Huntington, J. F. Johnstone, **S. F. Trainor**, G. P. Kofinas, R. W. Ruess, N. Fresco, D. C. Natcher, T. N. Hollingsworth, and R. L. Naylor. Directional Changes in Ecological Communities and Social-Ecological Systems: A Framework for Prediction Based on Alaskan Examples, (2006). *American Naturalist*, 168 (S6): S36-S49.
- S.F. Trainor**, (2006). Realms of Value: Conflicting Natural Resource Values and Incommensurability. *Environmental Values*, 15: 3-29.
- S. F. Trainor** and R. B. Norgaard, (1999). Recreation Fees in the Context of Wilderness Values, *Journal of Parks and Recreation Administration*, 17 (3): 101-116.

BOOK CHAPTERS

- N. Kettle, J. Sam, **S.F. Trainor**, G. Gray. (Submitted) Supporting Tribal Climate Adaptation Planning in Northwest Alaska. In: Approaches to Address Climate Change at the Local Level. Eds: Don Albrecht and Paul Lachapelle. Publisher: TBD.
- Kontar, Y.Y., **Trainor S.F.**, Gavrylieva, T.N., Echelberger, J.C., and Tananaev N.I. (Submitted). Advancing Springtime Flood Risk Reduction in the Arctic through International and Interagency Collaborations. *Global Change and Future Earth: The Geodetic and Geophysical Perspective*. Cambridge University Press.
- S.F. Trainor**, N. Kettle, J.B. Gamble (2016). Not Another Webinar! Regional Webinars as a Platform for Climate Knowledge to Action Networking in Alaska. In *Climate in Context*, eds. A. Parris and G. Garffin. Wiley & Sons.
- S. F. Trainor** (2013). Deeper Sense of Place for Indigenous and Western Science Partners in Climate Change Assessment and Adaptation in Alaska. In *A Deeper Sense of Place: Stories and Journeys of Indigenous-Academic Collaboration*, eds. J. Johnson & S. Larsen. Corvallis: Oregon State University Press.
- S.F. Trainor** (2012). Confronting Climate Change: Leadership and Action in the Face of Scientific Uncertainty. Chapter in *Environmental Leadership: A Reference Handbook*. D. R. Gallagher, Editor. Vol 2. Sage Publications, Inc., Chapter 54. pp. 511-518.
- S. F. Trainor**, A. Godduhn, L. K. Duffy, F. S. Chapin III, D. C. Natcher, G. Kofinas, H. P. Huntington, (2009). Environmental Injustice in the Canadian Far North: Persistent Organic Pollutants and Arctic Climate Impacts. Chapter 8 in *Concepts of Environmental Justice in Canada*, U.B.C. Press. J. Agyeman, R. Haluza-Delay, P. Cole and P. O’Riley, Eds, pp. 144-162.
- R. B. Norgaard, A. J. Scholz, and **S. F. Trainor**. (2001). “Values, Valuation, and Valuing Processes.” In *Economic Growth and Valuation of the Environment*, edited by Ekko van Ierland, Jan van der Straaten and Herman R. J. Vollebergh. Cheltenham, UK, Edward Elgar Publishing. pp. 151-169.

TECHNICAL REPORTS

- M. Sommerkorn, G. Hovelsrud, **S.F. Trainor**, Invited Lead Author. (In Prep) Adaptation Methodologies and Tools to Enable Action. In: Armstrong, T. et al. Adaptation Actions for a Changing Arctic (d), Pan-Arctic Report. The Arctic Council.
- S.F. Trainor**. (In Review) (Lead Author), L. Abruтина, F. Stuart Chapin III, Valery Chashin, David Driscoll, Lawrence Hartig, Nathan Kettle, et al.. Adaptation Actions Chapter. In: Hinzman, L. D., et al. Adaptation Actions for a Changing Arctic (c), Bering, Chukchi, and Beaufort Region. The Arctic Council.
- L. D. Hinzman, J. Gamble, A. Klepikov, P. M. Outridge, L. Thorsteinson, **S. F. Trainor**, and J. E. Walsh. (In Review)(Contributing Author). Synthesis Chapter. . In: Hinzman, L. D., et al. Adaptation Actions for a Changing Arctic (c), Bering, Chukchi, and Beaufort Region. The Arctic Council.
- S.F. Trainor**, T. Buxbaum, A. York, A. Perrin. (In Review) Science Communication and Outreach. In: Markon, C., Robertson, A., et al. Drivers of Landscape Change in the Northwest Boreal Region of North America: impacts on natural resources, ecosystems, and communities. North West Boreal Landscape Conservation Cooperative. UGSG Press.
- F.S. Chapin, III, **Trainor, S.F.** P. Cochran, A.D. McGuire, H. Huntington, M. McCammon, C. Markon, M. Serreze. Alaska Chapter. (Contributing Lead Author) (2014) United States Global Change Research Program, *National Climate Assessment*.
- S.F. Trainor**, (Contributing Author). (2013). Provisioning and Cultural Services. Huntington, H.P. Lead Author; *The Arctic Biodiversity Assessment*. The Arctic Council.
- C.J. Markon, **Trainor, S.F.**, Chapin, F.S., III, Editors (2012) *The United States National Climate Assessment—Alaska Technical Regional Report*: U.S. Geological Survey Circular 1379.
- T. Brinkman, P. Duffy, **S.F. Trainor**, T.S. Rupp. *Tongass Climate Change Vulnerability Assessment Workshop Report*. Report from workshop in Juneau, AK. May 2-3, 2012.
- L. Krutikov, and **S.F. Trainor**, Andreassen, N., K. Itchoa. 2011. *Snow, Ice and Permafrost Hazards: Research Needs and Opportunities*. Report from June 2011 Workshop. Anchorage, AK: Cryosphere Hazards in Alaska.
- J. E. Cherry, S. Walker, N. Fresco, **S. F. Trainor**, A. Tidwell. Impacts of Climate Change and Variability on Hydropower In Southeast Alaska: Planning for a Robust Energy Future. November, 2010. Available on-line at: http://ine.uaf.edu/accap/documents/seak_report_final.pdf.
- D. Atkinson. M. Black, J. Cherry, B. Connor, A. Elconin, J. B. Gamble, A. Holman, L. Hopkins, J. L. Hulsey, M. Lee, G. Magee, R. Pawlowski, R. Perkins, T. S. Rupp, W. Schnabel, **S. F. Trainor**, S. Weaver, R. Weis, D. White, X. Zhang. *Decision-making for at-risk communities in a changing Climate. Prepared by the Alaska Center for Climate Assessment and Policy*. Jan. 2010. Available on-line at: <http://www.uaf.edu/accap/documents/DecisionMakingForCommunitiesAtRisk.pdf>.
- S. F. Trainor**, Editor and Contributor. *Interior Issues Council Climate Change Task Force Preliminary Vulnerability Assessment Report*. January 10, 2010.
- Contributor. A RISA community vision for future Regional Integrated Sciences and Assessments (RISA) efforts to match advances in climate impacts science with the needs of resource managers and planners. L.W. Binder and C. Simpson, Co-editors. July 2009.
- S.F. Trainor**, J.E. Walsh, G. Yu. 2009. Towards Predicting the Impact of Climate Change on Tourism: An Hourly Tourism Climate Index. *Alaska Park Science, Proceedings of the Arctic Alaska Park Science Symposium* Volume 8 (2): 106-109.

TEACHING***GRADUATE STUDENTS, POST-DOCTORAL FELLOWS AND INTERNSHIP MENTEES***

Name	Department	S.F. Trainor's Role	Status
Eunkyoung Hong	Interdisciplinary Studies, College of Engineering and Mines	Committee Chair	Ph.D. Granted Summer 2012
Jessica Garron	Interdisciplinary Studies, Geology and Geophysics	Committee Co-Chair	Ph.D. Expected completion Summer 2017
Stefan Tangen	Natural Resources Management	Committee Chair	M.S. In progress. Expected completion Fall 2017
Nicole Warner	Natural Resources Management	Committee Chair	Non-Thesis Masters. In progress. Expected completion Spring 2017
Olivia Lunsford	Natural Resources Management	Committee Chair	Non-Thesis Masters. In Progress. Expected completion Spring 2017
Robin Bronen	Interdisciplinary Studies, Dept. of Biology and Wildlife	Committee Member	Ph.D. Granted Dec. 2012
Katia Kontar	Interdisciplinary Studies, Geology and Geophysics	Committee Member	Ph.D. Expected completion Spring 2016
Alyssa Shanks Rodregues	Natural Resources Management	Committee Member	Ph.D. Expected completion Spring 2016
Kristin Timm	Natural Resources Management	Committee Member	M.S. Granted Summer 2014
Aurora Roth	GeoSciences	Committee Member	M.S. Expected completion Summer 2016
Nathan Kettle	International Arctic Research Center	Advisor and Mentor	Post-Doctoral Fellow started Sept. 2012. Promoted to Research Associate 2015.
Melanie Colavito	International Arctic Research Center	Advisor and Mentor	Post-Doctoral Fellow started Jan. 2015
Josie Sam	International Arctic Research Center	Advisor and Mentor	Post-Doctoral Fellow started Jan 2015
Matthew Druckenmiller	Geophysics	Intern Mentor	Ph.D. granted 2011
Lauren Frisch	Environmental Policy, Bard College	Intern Mentor	M.S. granted Spring 2014
Richard Hum	Interdisciplinary Studies, College of Rural and Community Development	Intern Mentor	M.A. granted Summer 2013

UNIVERSITY TEACHING

Introduction to Sustainability Science (NRM 111). Spring 2015, 2016.

Natural Resources Management, University of Alaska, Fairbanks

Global to Local Sustainability (ANTH/ECON/BIO/NRM 647). Fall 2013, 2014, 2015, 2016.

Regional Resilience and Adaptation Program & Natural Resources Management,
University of Alaska, Fairbanks.

Ethics & Society (PS 300), **Adjunct Faculty**. Spring 2005.

Political Science Department, University of Alaska, Fairbanks

Environmental Philosophy and Ethics (ENST 280), **Lecturer**. Spring 2003.

Environmental Studies Program, The University of Chicago

Environmental Policy and Decision-Making (ENST 247), **Lecturer**. Spring 2003

Environmental Studies Program, The University of Chicago

Environmental Philosophy and Ethics (ESPM 161), **Graduate Student Instructor**. Fall 200, Fall 1996

Environmental Science Policy and Management; University of California, Berkeley

Masters Seminar (ER 292), **Graduate Student Instructor**. Fall 2000

Energy and Resources Group; University of California, Berkeley

American Environmental and Cultural History (ESPM 160), **Graduate Student Instructor**. Fall 1999, Fall 1998.

Environmental Science Policy and Management; University of California, Berkeley

Racism, Poverty and Environmental Justice (PHIL 77), Spring 1999.

Teaching Assistant/ Service Learning Internship Coordinator,
Ethics and Society Program; Stanford University

SERVICE

PROFESSIONAL

Manuscript Review for: *Climatic Change, Conservation Biology, Ecology and Society, Environmental Values, Local Environment, Global Environmental Change, Regional Environmental Change*, University of Alaska Press, University of Colorado Law School Renewable and Sustainable Energy Initiative.

Proposal Review for: NASA ABoVE (2015), Joint Fire Science Program (2014), NordForsk (Scandinavian Research Council) (2013), NSF Coupled Natural and Human Systems Panel (2011).

Board Membership: Advisory Board Alaska Climate Research Center, UAF; Scientific Advisory Board Alaska Department of Interior Climate Science Center.

Session Organizing for professional meetings:

Science Communication as a Driver of Change. *American Geophysical Union*, San Francisco, CA. Dec. 14-19, 2015. Session Organizer and Student Poster Presentation (Nicole Warner).

The role and structure of networks at the climate science-practice interface. *Association of American Geographers*, Tampa, FL, April 8-12, 2014. Co-organizer.

The JFSP Knowledge Exchange Consortia: Bridging the Chasm between Management and Science, Special Session. *Association of Fire Ecology*, Portland, OR, Dec. 3-7, 2012. Co-organizer.

Joint Fire Science Program Regional Knowledge Exchange Consortia, Special Session. *Human Dimensions of Wildland Fire*. Seattle, WA, April 17-19, 2012. Co-organizer.

Alaska Forum on the Environment. *Changing Landscapes: Sea Ice, Snow and Permafrost in Alaska*. Anchorage, Feb. 6-10, 2012. Organizer and facilitator.

Native Elder's Panel, *Climate Language and Indigenous Perspectives Conference*. Fairbanks, AK, August 13-15, 2008. Co-organizer.

Climate Change and Indigenous Peoples II: Working with Animal Nations. *Association of American Geographers*, Boston, MA, April 15-19, 2008. Session Chair.

Climate Change and Indigenous Peoples III: Scientific, Historical and Indigenous Perspectives. *Association of American Geographers*, Boston, MA, April 15-19, 2008. Session Organizer.

Climate Change Adaptation in the Far North. *Association of American Geographers*, San Francisco, CA, April 20, 2007. Session Organizer.

UNIVERSITY

International Arctic Research Center Scientific Leadership Team (Sept. 2012 – present).

Regional Resilience and Adaptation Program Advisory Team (Sept. 2016 – present).

Arctic Policy & Governance Partnership Steering Committee (June 2016 – present).

Alaska Climate Research Center Advisory Board (April 2011 – present).

Scenarios Network for Alaska and Arctic Planning Leadership Team (2007-2014).

Represent ACCAP and AFSC at University meetings with high level visitors such as Senator Lisa Murkowski (2011), NOAA Administrator Jane Lubchenco (2011), Senatorial Chiefs of Staff orchestrated by Senator Mark Begich's office (2012), NOAA Administrator Kathleen Sullivan (2014) and Senate Commerce, Justice and Science Appropriations Staff (2016).

UAF Climate Change Planning Group (2009).

Proposal Reviews for: Center for Global Change Student Competitions (2009, 2010, 2011, 2013, 2014), EPSCoR undergraduate student competition (2010).

DEPARTMENT

Inside Out Lectures, Student Recruiting. Fall 2014, Spring 2015.

Guest Lectures for NRM Graduate Seminar. Fall 2014, Fall 2015.

Guest Lecture for Cross-Cultural Studies/ NRM 656. Fall 2016

PRESENTATIONS

PROFESSIONAL MEETINGS AND INVITED TALKS

- D. Stanitski, M. Druckenmiller, F. Fetterer, M. Gerst, J. Intrieri, M. A. Kenney, W. Meier, J. Overland, J. Stroeve, **S. F. Trainor**. Arctic Indicators of Change. Presentation at the *American Geophysical Union* annual meeting. San Francisco, CA. Dec. 2016.
- S.F. Trainor**. Science Communication and Collaboration - From Local to Global: Getting the Science from the Heads of the Researchers into the Hearts of the People. Panelist. *National Park Service Centennial Science and Stewardship Symposium*. Fairbanks, AK. Oct. 14-16, 2016.
- N. Warner, M. Swanson, **S.F. Trainor**, K. Timm, T. Buxbaum, and A. York. Beginning the Conversation: The Process of Advancing Science Communication in Landscape Conservation Cooperatives in Alaska. Poster at *American Geophysical Union* annual meeting. San Francisco, CA. Dec. 2015.
- N. Kettle and **S.F. Trainor**. Climate Webinars as a Platform for Supporting Boundary Chains. Poster. *American Meteorological Society*. Oct. 2014.
- S.F. Trainor**. Invited Presentation. Climate Science and Tools in Alaska. Presentation at the *International Symposium on Cold Region Development*. American Society of Civil Engineers. Anchorage, AK. June 2-5, 2013.
- S. Gray, **S.F. Trainor**. Strategic Climate Change Partnerships, Alaska Climate Science Center and Alaska Center for Climate Assessment and Policy. Presentation at the *Climate Prediction and Science Workshop*, Logan City, UT. April 23-25, 2013.
- S.F. Trainor**, J. Walsh, J.B. Gamble. Adapting to Climate Change: Planning, Research and Action. Presentation at the *National Adaptation Forum*, Denver, CO. April 2-4, 2013.
- J. Walsh, **S.F. Trainor**. Impacts of Extreme Weather of 2012 in Alaska. *American Meteorological Society*. Austin, TX. Jan 6-10, 2013.
- S.F. Trainor**. The Art of Fire. Invited lecture for *Words on Fire Symposium* hosted by the H.G. Andrews Experimental Forest, Corvallis, OR. November 2, 2012. Invited lecture for *Association of Fire Ecology Annual Meeting*, Portland OR. December 5, 2012.
- S.F. Trainor**. Communicating with Stakeholders. Invited lecture for *IARC Summer School*. Fairbanks, AK. July 23, 2012.
- S.F. Trainor**, J. Walsh, J.B. Gamble. Climate Change Adaptation in Alaska: Who is Doing What? Presentation at the *Adaptation Futures Conference*. Tucson, AZ. May 31, 2012.
- S. Kocher, E. Toman, **S.F. Trainor**, V. Wright. How Can We Span the Boundaries Between Wildland Fire Science and Management in the United States? Presentation at the *International Association of Wildland Fire, Human Dimensions Conference*. Seattle, WA. April 18, 2012.
- S.F. Trainor**, J. Walsh, J.B. Gamble. Climate Change Adaptation in Alaska: Who is Doing What? Invited talk for the Center for Science and Technology Policy Research, University of Colorado, Boulder. March 2, 2012.
- S.F. Trainor**, M.B. Leigh. In a Time of Change: The Art of Fire. Presentation at the *Association of American Geographers Annual Meeting*, New York, NY. February 26, 2012.
- S.F. Trainor**, S. Paquette. From Data to Knowledge in Climate Science, Adaptation and Policy. Presentation at the *Climate Prediction and Application Science Workshop*. Des Moines, IA. March 4, 2011. *Association of American Geographers*. Seattle, WA. April 13, 2011. *American Meteorological Society*. July 19, 2011.

- S. F. Trainor**, T. Brinkman, J. Cherry, N. Fresco, T. Hollingsworth, T. Rogers, T. S. Rupp, J. Walsh, J. Wolkin. Climate Science You Can Use. Invited presentation for Recent Advances in Climate Change Science in Alaska Session, *Alaska Forum on the Environment*. Anchorage, AK. February 7, 2011.
- S. F. Trainor**. Climate Change Impacts and Adaptation in Alaska: Indigenous Perspectives and University Collaborations. Presentation at the *Association of American Geographers Annual Meeting*, Washington, D.C.. April 14-18, 2010. Also panelist for A Deeper Sense of Place: New Geographies of Indigenous-Academic Collaboration.
- S. F. Trainor**, T.S. Rupp, K. A. Murphy, J. L. Allen, E. A. Miller, R. R. Jandt, D. L. Olson, C. A. Kolden. Wildland Fire Science Delivery and Outreach in Alaska. Poster. *Association of Fire Ecology, 4th International Fire Congress*, Nov 30 – Dec. 4, 2009. Savanna, GA.
- S.F. Trainor**, C. Anderson, D. Ferguson, G. Garfin. Climate Change, Water Impacts, and Indigenous Peoples: Engaging Native Knowledge in Cross-Regional Comparison between Alaska, the Pacific Islands, and the American Southwest. Presentation at the *American Water Resources Association Spring Specialty Conference on Managing Water Resources Development in a Changing Climate*. Anchorage, Alaska, May 4 – 6, 2009. Also session moderator.
- S.F. Trainor**, Science Communication, Vulnerability Assessment, and Adaptation Planning for Climate Change in Alaska. Presentaion at the *Inland Northwest Research Alliance*, Fairbanks, AK, March 6, 2009.
- S.F. Trainor**, Gongmei Yu, John Walsh. Towards Predicting the Impact of Climate Change on Tourism: An Efficient Tourism Climate Index. Presentation at the *Park Science in the Arctic, National Park Service*. October 15, 2008.
- S.F. Trainor**, F. S. Chapin, III, A. D. McGuire, M. Calef, N. Fresco, M. Kwart, P. Duffy, A. L. Lovecraft, T. S. Rupp, L. DeWilde, O. Huntington, D. D. Natcher. Vulnerability and Adaptation to Climate-Related Fire Impacts in Rural and Urban Interior Alaska. Presentation at the *American Association for the Advancement of Science, Arctic Division*, Fairbanks, AK, September, 17 2008.
- S.F. Trainor**, L. Kaplan. Siłam Irrusia: Interpreting Climate Change in Iñupiaq. Presentation at the *Climate Language and Indigenous Perspectives Conference*. Fairbanks, AK, August 13-15, 2008.
- S. F. Trainor**, F. S. Chapin, III. H. Huntington, D.C Natcher, G. Kofinas. Arctic Climate Impacts and Response: Environmental Injustice in Canada and the United States. Presentation at the *Association of American Geographers*, Boston, MA, April 15-19, 2008. Presentation.
- S. F. Trainor**. Climate Change and Indigenous Peoples II: Working with Animal Nations. *Association of American Geographers*, Boston, MA, April 15-19, 2008. Session Chair.
- S. F. Trainor**. Taking the "Voodoo" out of Science: Improving Stakeholder-Science Communications. *Association of American Geographers*, Boston, MA, April 15-19, 2008. Panelist.
- S.F. Trainor**, F. S. Chapin, III, A. D. McGuire, M. Calef, N. Fresco, M. Kwart, P. Duffy, A. L. Lovecraft, T. S. Rupp, L. DeWilde, O. Huntington, D. D. Natcher. Vulnerability and Adaptation to Climate-Related Fire Impacts in Rural and Urban Interior Alaska. *American Association for the Advancement of Science, Arctic Division*, Fairbanks, AK, September, 17 2008.
- S.F. Trainor**, F.S. Chapin III, H. Huntington, M. Calef.. Vulnerability and Adaptation to Climate Related Fire Impacts in Alaska. *American Association for the Advancement of Science, Arctic Division*, Anchorage, AK, September 25, 2007.

- S.F. Trainor.** Climate Decision Support Capabilities and Resources, The Alaska Center for Climate Assessment and Policy. *Workshop on Climate Science and Services: Coastal Applications for Decision Making through Sea Grant Extension and Outreach*. Charleston, SC, April 11, 2007.
- S.F. Trainor, D. White, J. Walsh, S.C. Gerlach, F. Ulmer, S. Moser.** The Alaska Center for Climate Assessment and Policy: Building Partnerships between Climate Scientists and Decision-Makers. Presentation at *Association of American Geographers*, San Francisco, CA, April 20, 2007.
- S.F. Trainor, D. White, J. Walsh, C. Gerlach.** Alaska Climate Information Products . Poster at *Climate Information, Responding to User Needs*, Oct. 22-23, 2007, College Park, MD.
- S.F. Trainor, F.S. Chapin, III, M. Bifelt, M. Calef, L. DeWilde, N. Fresco, A.D. McGuire, H. Huntington, O. Huntington, A. Lovecraft, D.C. Natcher, J. Nelson, T.S. Rupp, A. Starfield, J. Wisniewski, E. Zavaleta.** Human-Fire Interactions in the Boreal Forest of Interior Alaska. *International Fire Congress*, San Diego, CA, November 16, 2006.
- S. F. Trainor, M. Bifelt, F.S. Chapin, III, L. DeWilde, H. Huntington, O. Huntington, D. Natcher, J. Nelson.** Fire Effects on Ecosystem Services and Village Economy. *Society for Human Ecology*, Bar Harbor, ME, October 19, 2006.
- S.F. Trainor, F.S. Chapin, III, M. Bifelt, M. Calef, L. DeWilde, N. Fresco, A.D. McGuire, H. Huntington, O. Huntington, A. Lovecraft, D.C. Natcher, J. Nelson, T.S. Rupp, A. Starfield, J. Wisniewski, E. Zavaleta.** Human-Fire Interactions in the Boreal Forest of Interior Alaska. *American Association for the Advancement of Science, Arctic Division*, Fairbanks, AK, October 3, 2006.
- S.F. Trainor, F.S. Chapin III, H. Huntington, D.C. Natcher, L. DeWilde.** Resilience and the Role of Fire Fighting in the Multiple Economies of Rural Interior Alaska. *International Symposium on Society and Resource Management*, Vancouver, B.C., Canada, June 5, 2006.

OUTREACH AND ENGAGEMENT

- S.F. Trainor.** Climate Change and Alaska. Presentation to the Commonwealth Club Tour Group. Fairbanks, AK. July 7, 2016
- S.F. Trainor.** Climate Change and Alaska. Presentation for the *Interior Indigenous Women's Exchange on Climate Change*. Fairbanks, AK. Nov 17, 2015.
- S.F. Trainor.** Presentation for ACCAP Webinar – National Climate Assessment Engagement Session. Key Findings of the Alaska Chapter, National Climate Assessment. March 6, 2013. April 2013 presentation for NASA Educators, Oct. 2014 presentation for EPA Educators.
- T. Brinkman, P. Duffy, **S.F. Trainor**, T.S. Rupp. Facilitator for *Tongass Climate Change Vulnerability Assessment Workshop*. Juneau, AK. May 2-3, 2012.
- S.F. Trainor** , Markon, C.J., and F.S. Chapin III. The National Climate Assessment Alaska Regional Technical Report Public Engagement Sessions. *Webinar* presentations October 25, 2011 and February 13, 2012 (http://ine.uaf.edu/accap/telecon_archive.htm) and presentation at Special Session of *Alaska Forum on the Environment*, February 8, 2012.
- S.F. Trainor.** Changing Landscapes: Sea Ice, Snow and Permafrost in Alaska. Convener and Facilitator of Special Session at *Alaska Forum on the Environment*, February 7, 2012.
- S.F. Trainor.** Decision Support in Alaska, Lessons Learned. Presentation at *National Weather Service Alaska Region Decision Support Workshop*. Sept. 27, 2011.
- S.F. Trainor.** Documented and Anticipated Climate Impacts in Alaska. Presentation at *U.S. Fish and Wildlife Service Climate Friendly Refuge Workshop*. Kenai, AK. Sept. 14, 2011.

- S.F. Trainor.** Introduction to Fire Effects. Human Interface and Socio-Political Factors. Presentation for *Alaska Fire Service, RX- 301 Training Course*. Fairbanks, AK. March 10, 2011.
- S.F. Trainor,** *Classrooms for Climate*. The Alaska Center for Climate Assessment and Policy: Assisting Alaskans' in Responding to a Changing Climate. Anchorage, AK. April 5, 2011.
- S.F. Trainor,** The Alaska Center for Climate Assessment and Policy and the Scenarios Network for Alaska and Arctic Planning: Assisting Stakeholders in Meeting Climate Information Needs. Poster Presentation. *Environmental Protection Agency: Integrated Modeling Workshop*. Atlanta, GA. February 1-3, 2011.
- S. F. Trainor.** Climate Change Vulnerability Assessment. Presentation for Tribal Perspectives on Planning For Climate Change Session, *Alaska Forum on the Environment*. Anchorage, AK. February 7, 2011.
- S. F. Trainor.** Climate Change in Alaska, Adaptation and Planning Resources. Presentation at *Bureau of Indian Affairs Annual Providers Conference*. Anchorage, AK. December 30, 2010.
- S. F. Trainor,** Climate Change Vulnerability Assessment and Adaptation Resources. Presentation at *Alaska Coastal Management Program, Coastal District Managers Conference*. Anchorage, AK. November 19, 2010.
- S. F. Trainor,** Community Climate Change, Past and Future. Presentation for *Northwest Arctic Climate and Health Summit, Understanding Impacts, Planning for the Future*. Kotzebue, Alaska. September 16-17, 2010.
- S. F. Trainor.** Adapting to Climate Change in Alaskan Communities. Community forum host and presentation at *Climate Change Adaptation Workshop*. Organized and hosted by Coastal Training Program Kachemak Bay Research Reserve and the Alaska Marine Conservation Council. Homer, Alaska. Feb 17 & 18, 2010.
- S. F. Trainor.** Climate Change and Fire in Alaska. Presentation for *Stakeholder Workshop, Climate Change Observations in Rural Interior Villages*. International Arctic Research Center. February 6, 2010.
- S. F. Trainor.** Climate Impacts in Alaska. Presentation at the *Native People's Native Homelands Workshop*, Lake Prior, MN. November 19, 2009.
- S. F. Trainor.** Tools for Community Scenario Planning. Presentation for the *Alaska Community-Based Climate Change Adaptation Outreach Program Development Workshop*. Organized by Alaska Sea Grant and Alaska Center for Climate Assessment and Policy. November 17, 2009.
- D. White and **S.F. Trainor.** Climate Change, What's the Big Deal?. Presentation for the *Ocean Science Lecture Series at the Alaska Sea Life Center*. Sponsored by the Alaska Sea Life Center and the National Park Service Ocean Alaska Science Learning Center. November 9, 2009.
- S. F. Trainor.** Communicating Fire Science Information. Presentation for and facilitation of *Alaska Fire Science Consortium Workshop Inaugural Meeting*. October 16, 2009.
- S. F. Trainor.** Alaska Fire Science Consortium. Presentation at the 2009 *Annual Fall Fire Review*, Fairbanks, AK. October 15, 2009.
- S. F. Trainor.** Climate Change 101 presented to *Cooperative Extension Service State Advisory Council*. Fairbanks, AK. Oct. 2, 2009.
- D. White, T.S. Rupp, **S.F. Trainor.** Climate Change 101 Workshop presented to the US Environmental Protection Agency Alaska Office, Anchorage Alaska. April 1, 2009.
- S.F. Trainor.** Workshop leader, organizer and convener. *Planning and Preparing for Climate Change in Northwest Alaska*. Kotzebue, AK, November 19-20, 2007.

- S.F. Trainor.** Climate Change and Adaptation, Meeting the Challenge. *Alaska Municipal League Annual Meeting*. Fairbanks, AK. November 9, 2007.
- L. Duffy, A. Godduhn, **S. Trainor**, C. Gerlach, M. Murray. UAF Researchers Seek to Understand Effects of Climate Change and Pollutants on the North and its Peoples. *UArctic Shared Voices Newsletter*, p. 21. 2007.
- S.F. Trainor.** The Human Interface and Socio-Political Factors. Unit lecture presented for RX 310 Introduction to Fire Effects. Alaska Fire Service. September 14, 2006.
- S.F. Trainor**, F.S. Chapin III, L. DeWilde, H. Huntington, O. Huntington, D. C. Natcher. Wildfire, Emergency Fire Fighting and Rural Communities. Human-Fire Interactions in the Boreal Forest of Interior Alaska, A Public Symposium of Research Results for Policy-Makers, Researchers, and Everyone Interested in Forest Fire. Fairbanks, Alaska, August, 15, 2006. Presenter and Organizer.