

# Susan Alexandra Crate, Ph. D.

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Professor of Anthropology  
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## Research and Teaching Interests

- ◆ Environmental & Cognitive Anthropology, Human Ecology, Cultural & Political Ecology, Interdisciplinarity
- ◆ Climate Change, Indigenous Knowledge, Community Sustainability, Globalization
- ◆ Subsistence Economies, Indigenous Foodways, Sustainable Development, Environmental Justice
- ◆ Ethnography, Oral History, Community Participatory, Qualitative and Quantitative Research Methods
- ◆ Siberia, Russia, Circumpolar North, Mongolia, Wales, Peru, Kiribati, Chesapeake Bay

## Employment Chronology

- Aug 2016-  
to date      Professor of Anthropology  
**George Mason University, Department of Environmental Science and Policy**
- Aug 2010-  
July 2016    Associate Professor of Anthropology  
**George Mason University, Department of Environmental Science and Policy**
- Aug 2004-  
July 2010    Assistant Professor of Anthropology  
**George Mason University, Department of Environmental Science and Policy**
- Aug 2002-  
July 2004    Postdoctoral Fellow, Havighurst Center for Russian and Post-Soviet Studies  
**Miami University of Ohio, Geography and Environmental Science**

## Education

- 1997-2002    Ph.D. in Cultural Ecology, **The University of North Carolina at Chapel Hill, Curriculum in Ecology**  
Dissertation title: *Cows, Kin & Capitalism: The Cultural Ecology of Viliini Sakha in the Post-Socialist Era*
- 1989-1994    M. A. in Folklore, **The University of North Carolina at Chapel Hill, Curriculum in Folklore**  
Masters thesis title: *Dance of Life, Circle of Life: Ahyokhai as the Sakhas' Emergent Ethnic Voice*
- 1988-1991    **Intensive Russian Language & Culture Studies**  
Kharkov State University, Kharkov, Ukraine, Aug 1990-Feb 1991  
Moscow State University, Moscow, Russia, Summer, 1989  
Zaporozhye Institute, Zaporozhye, Ukraine, Summer, 1988
- 1979-1983    **Warren Wilson College, Swannanoa, North Carolina**  
B. A. in Environmental Studies, with a concentration in education

## Awards and Support

- 2020      **University of Melbourne**, MacGeorge Fellowship *Narratives of Climate Change: Empowering Communities to Act. \$10,000*  
for travel and living expenses for sabbatical project, Feb-Mar 2020.
- 2018-19    **British Museum**, Urgent Anthropology Fellowship *Engaging Longitudinal Ethnography in Anthropology and Climate Change Research. S Crate, PI \$65,000.*
- 2018-19    **Fulbright US Scholar Program**, *Developing an Interdisciplinary Research Approach Towards Rural Sustainability in Russia: The Case in Sakha* Awarded but declined due to conflict with activities.

- 2017-20 **National Science Foundation IRES**, *People, power, and rivers: social-ecological dynamics of hydroelectric development in northern Mongolia* S Crate, co-PI \$249,971.
- 2016-17 **GMU University Life Faculty Fellowship** *GMU Sustainable Foodways for Health Initiative*, S Crate, \$4000.
- 2016 **Title VIII Funding** for Summer Mongolian Language Intensive, Indiana University, Bloomington, Indiana. \$9892.
- 2015-16 **GMU University Life Faculty Fellowship** *GMU Sustainable Foodways for Health Initiative*, S Crate, \$4000.
- 2015-16 **National Science Foundation, Office of Polar Programs, Arctic Social Science Program**. Doctoral Dissertation: Climate Change in Oymyakon: Perceptions, Responses, How local Knowledge May Inform Policy, S. Crate, \$14,000.
- 2014 **Center for Global Studies Faculty Research Grant, GMU**. A Preliminary Survey of Socio-cultural Change Drivers Affecting Endangered Mongolian Fish Species: Climate, Herding and Tourism, S. Crate, \$2,500.
- 2010-13 **National Science Foundation, Division of Cultural Anthropology**. Cultural Models, Community Adaptation and Climate Change for the Chesapeake Bay, S. Crate, PI \$19,000.
- 2009-12 **National Science Foundation, Office of Polar Programs, Arctic Systems Science Program**. Understanding Climate-Driven Phenological Change - Observations, Adaptations and Cultural Implications in Northeastern Siberia and Labrador/Nunatsiavut (PHENARC) S. Crate, P.I. \$640,000.
- 2007- 10 **National Science Foundation, Office of Polar Programs, Arctic Social Science Program grant 0710935** Assessing Knowledge, Resilience & Adaptation and Policy Needs in Northern Russian Villages Experiencing Unprecedented Climate Change. S. Crate, P.I. \$342,000.
- 2003-06 **National Science Foundation, Arctic Social Science Program grant 0532993**: "Investigating the Economic and Environmental Resilience of Viliui Sakha Villages: Building Capacity, Assessing Sustainability, Gaining Knowledge." S. Crate, P.I. \$90,000.
- 2006-08 **Chesapeake Watershed Cooperative Ecosystem Studies Unit/National Park Service grant 105792** Development of a spatially explicit participatory model to explore anthropogenic on-site threats on rare aquatic resources of the Potomac Gorge" co-PI. \$130,000.
- 2007-08 **Sustainability Across the Curriculum 2-day GMU Faculty Workshop** Jan 16 & 17 2007/ Jan 14 & 15, 2008. Planned, Fund-raised, solicited participants, and facilitated 2-day workshop for GMU faculty from across departments to develop syllabi embracing the ethic of sustainability. \$20,000 (2007) \$12,000 (2008).
- 2005-06 **Chesapeake Watershed Cooperative Ecosystem Studies Unit/National Park Service** Managing the impacts of surrounding land uses on the rare biotic resources of the Potomac Gorge co-PI. \$11,000.
- 2006-08 **University Life Faculty Fellowship** awarded for the continued coordination of a university-wide Task Force to facilitate faculty, students and staff to address campus greening, \$4000.
- 2001-02 **Social Science Research Council Dissertation Write-Up Fellowship**: Funding to write dissertation, 2001-2002 academic year.
- 2001 **Latane Interdisciplinary Summer Research Grant**: Funding for 2-months of research in Alaska.
- 2000-01 **American Association of University Women (AAUW) Dissertation Write-up Award**: Funding to write dissertation, 2000-2001 academic year.
- 2000 **Smith Graduate Research Fund Grant**. Funding for the collection of data for dissertation.
- 1999-00 **National Science Foundation Dissertation Improvement Award**: Funding for dissertation research.
- 1999-00 **Fulbright-Hays Doctoral Research Abroad Award**: Funding for dissertation research.
- 1999-00 **Social Science Research Council International Dissertation Field Research Fellowship**: Funding for dissertation research.
- 1999-00 **International Research & Exchange Board (IREX) Individual Advanced Research Award**: Funding for dissertation research.
- 1999-00 **Foreign Language & Area Studies Slavic, Eurasian & East European Fellowship**: (declined).
- 1999-00 **United States Information Agency Regional Scholar Exchange Program Award**: (declined).
- 1996-97 **John D. & Catherine T. MacArthur Foundation**: Funding for the Indigenous Policy Research Project.
- 1994-95 **John D. & Catherine T. MacArthur Foundation**: Funding for the Viliui Environmental Education Project.
- 1993-94 **International Research and Exchange Board (IREX) On-Site Language Training Grant**: Funding to learn Sakha (Yakut) Language.

#### Research Experience

- 2010-13 **Cultural Models, Community Adaptation and Climate Change for the Chesapeake Bay**. Collaboration to develop cultural models in three Eastern Shore stakeholder groups.
- 2009-14 **Understanding Climate-Driven Phenological Change - Observations, Adaptations and Cultural Implications in Northeastern Siberia and Labrador/Nunatsiavut (PHENARC)**. Interdisciplinary project to gauge the

- anthropological and historical climatological ramification of phenological change in native settlements of NE Siberia, Russia and Labrador, Canada.
- 2007-14 **Assessing Knowledge, Resilience & Adaptation and Policy Needs in Northern Russian Villages Experiencing Unprecedented Climate Change.** Community-based research project focusing on understanding local perceptions and cultural implications of global climate change in native Arctic communities.
- 2003-06 **Investigating the Economic and Environmental Resilience of Viliui Sakha Villages: Building Capacity, Assessing Sustainability, Gaining Knowledge.** Four-village applied research project to develop, assess, and implement local indigenous models of sustainability.
- 2001 **A Preliminary Comparative Analysis of Alaskan and Sakha Villages.** Two month project working in Alaska with village members and tribal councils comparing contemporary issues.
- 1999-00 **The Cultural Ecology of a Post-Socialist Society: The Case of Viliui Sakha.** Dissertation research to investigate how Viliui Sakha agropastoralists are adapting in the post-Soviet context on a household food production level.
- 1996-97 **Diamonds for the Sakha: An Indigenous Policy Research Project.** Directed a two-year project with indigenous specialists investigating local response to diamond mining activity.
- 1994-95 **Viliui Environmental Education Project.** Directed a two-year project with indigenous specialists establishing an environmental education center and resource guide.
- 1993-94 **On-Site Language Training.** Participated in 9-month Sakha language immersion.
- 1990-92 **Ethnographic Field Research.** Participated in field research projects with local ethnographers documenting the songs, stories, dances, and material culture of the Buryat, Tuvan, Ukrainian, Evenk, and Sakha peoples.
- 1991 **Photographer.** Documented the cultural and natural heritage of Lake Baikal and participated as one of four contributing photographers to Sierra Club book *Baikal: The Sacred Sea of Siberia*.

#### Publications\*

##### Books:

- 2021 *Once Upon the Permafrost: Culture and Climate Change in the 21<sup>st</sup> Century*. Tucson: University of Arizona Press. *Forthcoming*.
- 2016 **Crate, S.** and Mark Nuttall, eds. *Anthropology and Climate Change: From Actions to Transformations*. New York: Routledge.
- 2013 **Crate, S.** and A. Fedorov. *Alamai Tiin: Buluu Ulustarigar Klimat Ularitigar uonna Atin Kihalghar* (Alamai Tiin: Climate Change and other Change in the Viliui Regons). Yakutsk: Bichik.
- 2009 **Crate, S.** and Mark Nuttall, eds. *Anthropology and Climate Change: From Encounters to Actions*. Walnut Creek: Left Coast Press.
- 2006 *Cows, Kin and Globalization: An Ethnography of Sustainability*. Walnut Creek: Alta Mira Press.

##### Articles:

- 2019 Ohuokhai: Transmitter of Biocultural Heritage for Sakha of Northeastern Siberia. *Journal of Ethnobiology*, 39(3): 409-424.
- 2019 Introduction to Special Issue: Storying Climate Change. *Practicing Anthropology* 41(3):2-10.
- 2019 Indigenous Knowledge and Local Knowledge. IPCC report 'Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC)': 1-35-1-40. [https://report.ipcc.ch/srocc/pdf/SROCC\\_FinalDraft\\_FullReport.pdf](https://report.ipcc.ch/srocc/pdf/SROCC_FinalDraft_FullReport.pdf)
- 2019 Yegorov-Crate, Kathryn T. and **Susan A. Crate**. 14.3: *Growing up with the AnthropoGENE in the Anthropocene*. In Brondo, Keri, ed. *Cultural Anthropology: Contemporary, Public and Critical Readings*, 2<sup>nd</sup> ed. Oxford: Oxford University Press: 511-516.
- 2017 Climate Change Adaptation and Traditional Cultures in Northern Russia. *Current History*, 116 (792): 277-281.
- 2017 **Crate, S.**, Ulrich, M., Habeck, O., Desyatkin, A., Desyatkin, R., Fedorov, A., Hiyama, T., Iijima, Y., Ksentofontov, S., Meszaros, C., Takakura, H. Permafrost livelihoods: A transdisciplinary review and analysis of thermokarst-based systems of indigenous land use. *Anthropocene*, 18: 89-104.
- 2017 Storying Climate Change: Local testimonies build understandings of global climate change and galvanize meaningful action. *Anthropology News*, 56 (7-8): 9.
- 2015 Anthropologists on the Hill: 2015 Climate Science Day, Lobbying for Science. *Anthropology News*, 56 (7-8): 9.
- 2014 An Ethnography of Change in Northeastern Siberia: Whither an Interdisciplinary Role? *Sibirica*, 13(1): 40-74.
- 2013 From Living Water to the "Water of Death": Implicating Social Resilience in Northeastern Siberia. *Worldviews*, 17(2): 115-124.
- 2013 **Crate, S.** and A. Fedorov. A Methodological Model for Exchanging Local and Scientific Climate Change Knowledge in Northeastern Siberia. *Arctic*, 66(3): 338-350.
- 2013 Leduc, T. and **S. Crate**. Reflexive Shifts in Climate Research and Education: Toward Relocalizing Our Lives. *Nature & Culture*, 8(2): 134-161.
- 2013 Climate Change and Human Mobility in Indigenous Communities of the Russian North. Brookings Institute. <http://www.brookings.edu/research/papers/2013/01/30-arctic-russia-crate>

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\* single author unless marked otherwise

- 2013 Глобальное изменение климата и меняющаяся сезонность: др Сьюзан Крейт в сотрудничестве с ИГИИПМНС СО РАН (Global Climate Change and seasonal changing: Dr Susan Crate's Collaboration with the Institute of Humanitarian Research, Russian Academy of Sciences). *Northeastern Humanitarian News* 2(7):80-90.
- 2012 Climate Change and Ice Dependent Communities: Perspectives from Siberia and Labrador. *Polar Journal*, 2(1): 61-75.
- 2011 Climate and Culture: Anthropology in the Era of Contemporary Climate Change. *Annual Review of Anthropology* 40(1): 175-194.
- 2011 A Political Ecology of *Water in Mind*: Attributing Perceptions in the Era of Global Climate Change. *Weather, Climate and Society*. 3(3):148-164.
- 2009 Prasad, V., M. Helfrich and **S. Crate**. Social Capital as a Source of Adaptive Capacity to Climate Change in Developing Countries, *The International Journal of Climate Change: Impacts and Responses* 1(3): 149-161.
- 2009 Prasad, V., M. Helfrich and **S. Crate**. What principles and priorities of climate change adaptation need to be integrated into development protocols to make it successful and why? *International Journal of Climate and Development*.
- 2008 Gone the Bull of Winter: Grappling with the Cultural Implications of and Anthropology's Role(s) in Global Climate Change. *Current Anthropology*, 49(4).
- 2008 Climate Change and Human Rights. *Anthropology News* 49(5): 34-45.
- 2008 Eating Hay: The Ecology, Economy & Culture of Viliui Sakha Smallholders of Northeastern Siberia. *Human Ecology*.36:161-174.
- 2008 Walking Behind the Old Women: Sacred Cow Knowledge in the 21<sup>st</sup> Century. *Human Ecology Review* 15(2):115-129
- 2007 Cows and Kin: Innovations and Issues in Post-Soviet Indigenous Communities. *IJARGE*. 6 (6): 679-692.
- 2006 Investigating Local Definitions of Sustainability in the Arctic: Insights from Post-Soviet Villages, *Arctic*. 115-131.
- 2006 Elder Knowledge and Sustainable Livelihoods in Post-Soviet Russia: Finding Dialogue Across the Generations. *Arctic Anthropology*. 43(1):40-51.
- 2006 *Obuokai*: A Unique Integration of Social Meaning and Sound, *Journal of American Folklore*.119(472): 161-183.
- 2003 Viliui Sakha Adaptation: A Subarctic Test of Netting's Smallholder Theory. *Human Ecology*,31(4): 499-528.
- 2003 The Great Divide: Contested Issues of Post-Soviet Viliui Sakha Land Use. *Europe-Asia Studies*, 55(6):869-888.
- 2002 Co-option in Siberia: The Case of Diamonds & the Vilyuy Sakha. *Polar Geography*, 26(4): 289-307.
- 2002 Viliui Sakha Oral History: The Key to Contemporary Household Survival. *Arctic Anthropology* 39(1): 134-154.
- Book Chapters and Other Publications**
- 2019 Yegorov-Crate, K. and **S. Crate**. Growing up with the AnthroGENE in the Anthropocene, in Brondo, K. V., ed. *Cultural Anthropology*, Oxford, 511-516.
- 2018 Ch 13: Atlases of Community Change, in Klepp, S. and Chavez-Rodriguez, L. eds., 2018. *A Critical Approach to Climate Change Adaptation: Discourses, Policies and Practices*. Routledge.
- 2018 Water, Water Everywhere: Perceptions of Chaotic Water Regimes in Northeastern Siberia, Susan Crate, in Hiyama, Tetsuya and Hiroki Takakura, Global Warming and the Human-Nature Dimension in Siberia: Social Adaptation to the Changes of the Terrestrial Ecosystem, with an Emphasis on Water Environments, Springer: 1-10.
- 2016 Beginnings of a Rural Sustainability Paradigm: The Arctic as Case in Point. In Fondahl, G. and G. N. Wilson, *Northern Sustainabilities: Vulnerability, Resilience and Prosperity in the Circumpolar World*. New York: Springer Press: 253-267.
- 2016 Gone with Cows and Kin? Climate, Globalization, and Youth Alienation in Siberia. In Crate, S., and M. Nuttall, eds. *Anthropology and Climate Change: From Actions to Transformations*. New York: Routledge: 139-161.
- 2015 Chapter 11: Towards Imagining the Big Picture and the Finer Details: Exploring Global Applications of a Local and Scientific Knowledge Exchange Methodology. In Tischler, J. and H. Greschke, eds., *The Challenges of Global Climate Change: Contributions from the Social and Cultural Sciences*. Netherlands: Spring-Verlag: 155-171.
- 2015 G. Fondahl, **S. Crate**, and V. Filippova, Chapter 5: Sakha Republic (Yakutia), Russian Federation. In Larsen, J., P. Schweitzer and A. Pertov, eds. *Arctic Social Indicators II (ASI-II)*. TemaNord, Nordic Council of Ministers: 55-91.
- 2014 Fiske, S.J., **Crate, S.A.**, Crumley, C.L., Galvin, K., Lazrus, H., Lucero, L. Oliver-Smith, A., Orlove, B., Strauss, S., Wilk, R. Changing the Atmosphere. Anthropology and Climate Change. Final report of the AAA Global Climate Change Task Force. Arlington, VA: American Anthropological Association.
- 2014 Carina, E., H. Keskitalo, C. Southcutt, **S. Crate**, R. O. Rasmussen, and A. Tollefsen, Chapter 10: Globalization, in Larsen, J. N., Fondahl, G., & Nordic Council of Ministers. (2014). *Arctic human development report: regional processes and global linkages*. Copenhagen: Nordic Council of Ministers: 397-421.
- 2012 Climate and Cosmology: Exploring Sakha Belief and the Local Effects of Unprecedented Change in North-Eastern Siberia, Russia in Gerten, D., ed. Religion in Environmental and Climate Change: Suffering, Values, Lifestyles. Continuum: 175-199.
- 2012 Perceptions of Chaotic Water Regimes in NE Siberia in B. R. Johnston, et al. (eds.) Water, Cultural Diversity & Global Environmental Change: Challenges for a Sustainable Future. UNESCO International Hydrological Programme and Springer Publishing (Paris and Amsterdam): 214-217.
- 2011 Integrating Local and Scientific Knowledge about the Regional Effects of Global Climate Change. Course Reader eBooks.

- Belmont: Wadsworth Cengage Learning.
- 2010 Climate Change, Culture Change and Human Rights in Northeastern Siberia, *In* Johnston, B. R., ed. *Life and Death Matters*, 2<sup>nd</sup> Edition. Walnut Creek: Left Coast Press.
- 2010 Chapter 6: Contact with Nature, **S. Crate**, B. Forbes, L. King and J. Kruse. *In* Larsen, J. and P. Schweitzer, eds. *Arctic Social Indicators I (ASI-I)*. Copenhagen: Nordic Council of Ministers.
- 2009 Following Netting: The Cultural Ecology of Viliui Sakha Households in Post-Soviet Siberia *in* Bates, D. and J. Tucker, eds. *Human Ecology: Contemporary Research and Practice*, Berlin: Springer Academic.
- 2009 Climate Change and Culture, *In* Lopes, Priscila and Alpina Begossi, eds. *Current Trends in Human Ecology*, Newcastle upon Tyne: Cambridge Scholars Publishing: 35-57.
- 2009 Climate Change and Viliui Sakha: Encountering Culture. *In* Crate, S., and M. Nuttall, eds. *Anthropology and Climate Change: From Encounters to Actions*. Walnut Creek, Ca: Left Coast Press: 139-152.
- 2009 Viliui Sakha of Sub-arctic Russia and their Struggle for Environmental Justice *In* Agyeman, J. and Y. Ogueva-Himmelberger, eds. *Environmental Justice and Sustainability in the Former Soviet Union*, Cambridge: MIT: 189-213.
- 2008 Indigenous people, mining and the environment in Russia. *In* O’Faircheallaigh, C., and S. Ali, eds. *Earth Matters: Indigenous Peoples, the Extractive Industries and Corporate Social Responsibility*. Sheffield, UK: Greenleaf: 222-244.
- 2006 Huntington, Henry (lead), **S. Crate**, et al. ICARP II Working Group I: Arctic Economies and Sustainable Devel: [http://aosb.arcticportal.org/icarp\\_ii/science\\_plans/Science%20Plan%2001%20\\_%20%20ICARP%20II.pdf](http://aosb.arcticportal.org/icarp_ii/science_plans/Science%20Plan%2001%20_%20%20ICARP%20II.pdf)
- 2004 The Gendered Nature of Viliui Sakha Post-Soviet Adaptation, *in Post-Soviet Women Encountering Transition*. Baltimore: John Hopkins University Press, pp. 127-145.
- 2003 Russia in the Circumpolar North, *with* Mark Nuttall, *Polar Geography*, 27(2) (April-June 2003): 85-96.

**Popular Journals:**

- 2011 We are going Underwater: Siberian Villagers Show the World What Global Climate Change Means. *Natural History*, May 2011.

**NGO journals:**

- 2003 The Legacy of the Viliui Reindeer Herding Complex. *Cultural Survival Quarterly*, 27(1): 25-27.
- 1997 Silent Spring in Siberia: The Plight of the Sakha. *Cultural Survival Quarterly*, 20 (4):14-16.
- 1995 Environmental Problems in Sakha, Siberia. *Surviving Together*, 13 (4): 17-19.
- 1992 At Home in Siberia. *Cultural Survival Quarterly*, 16 (1):61- 64.

**Conference Proceedings:**

- 2007 Climate Change and Human Rights: Making the Case for Viliui Sakha of Northeastern Siberia. *In Proceedings of Calotte Academy 2007: New Northern Dimension*. Ed. Lassi Heininen Rovaniemi: University of Lapland: 81-92.

**Encyclopedia Entries:**

- 2017 Climate Change, International Encyclopedia of Anthropology, Oxford: Wiley and Blackwell, *forthcoming*
- 2007 “Taiga”; “Clean Development Mechanism”; “Genetic Diversity”; “Native Species”, *in* Paul Robbins, ed., *Encyclopedia of Environment and Society*, Sage Publications.
- 2005 The Sakha, *in* Carl Skutsch, ed., *Encyclopedia of World’s Minorities*, New York: Routledge, 1052-1053.
- 2004 Sakha, *in* Carol and Melvin Ember, eds. *Encyclopedia of Sex and Gender*. New York: Kluwer, pp. 768-778.

**Other:**

- 1995 *Kvek Teen* (Green Spirit). Bichik Press: Yakutsk.
- 1992 *Baikal: The Sacred Sea of Siberia*. Sierra Club Books, 1992. Contributing Photographer.

**Select Media Exposure:**

Film/Television

2015. My work on anthropology and climate change is featured in **The Anthropologist** from Ironbound films which premiered November 2015 and will be aired in late 2016.

**Select Invited Presentations**

- March 2018, The Local Effects and Responses to Climate Change: The Anthropological Take, Loyola University Chicago’s 5th annual Climate Change Conference.
- October 2017, Grappling with Climate at Home and Afar. Marshall University, Huntington, West Virginia.
- September 2017, Investigating the ‘Bottom-Up Complexity’ and ‘Adaptive Challenges’ of the Anthropocene: Anthropology, Interdisciplinarity, Methodology, XI Conference of Environmental Sociologists Chieti, Italy.
- March 2016, Tracking the Complexity of Change in Mongolia, Overheating Conference, University of Oslo.
- October 2015, Changing Climate & Dynamic Cultures: Survival in the Arctic, Peary-MacMillan Arctic Museum, Bowdoin College.
- April 2015, Towards Systematic Approaches for Interdisciplinary Global Change Research: The Alaas Permafrost Socio-ecological System as Case in Point, Arctic Science Summit Week, Toyama, Japan.

- October 2014, Anthropological Investigations into the Bottom-Up Complexity and Adaptive Challenges of Change in Contemporary Rural Contexts. Climate Histories Series, Cambridge University, UK.
- October 2014, Anthropological Investigations into the Bottom-Up Complexity and Adaptive Challenges of Change in Contemporary Rural Contexts. Dialogues in Human Geography, Aberystwyth University, Wales.
- September 2014, Anthropological Insights into the 'Bottom-Up Complexity' of 21<sup>st</sup> Century Global Change. Aarhus Moesgaard Autumn Lecture, Aarhus, Denmark.
- April 2014, Addressing Adaptive Challenges: Viliui Sakha Perceptions, Understandings and Responses to Permafrost Change, Arctic Science Summit Week, Helsinki, Finland.
- March 2013, A Situating of Knowledge and Change in 21<sup>st</sup> Century Rural Contexts. Anthropology Seminar Series, University of Aberdeen, Aberdeen, Scotland.
- January 2013, Change and Human Mobility in Indigenous Communities of the Russian North. *In Arctic Indigenous Peoples, Displacement, and Climate Change: Tracing the Connections*. Brookings Institution, Washington, DC.  
<http://www.brookings.edu/research/papers/2013/01/30-arctic-russia-crate>
- October 2012. Perspectives on and Adaptations to Changing Seasonality in Labrador, Canada and Northeast Siberia, Russia. 18<sup>th</sup> Inuit Studies Conference. Oct 22-28, Smithsonian, Washington, DC.
- October 2012, Grappling with 'Bottom-Up Complexity' in the 21<sup>st</sup> Century Entanglement of Changes. Invited Visiting Professor Series, University of Wales, St Davids, Lampeter, Wales.
- May 2011 Cows, Kin, and Climate Change: Bolstering Resilience Through Local and Scientific Knowledge Exchanges in Northeast Siberia. *Third Annual ACMS Research Conference, Ulan Bator, Mongolia*.
- May 2011 Understanding Risk Management and Sustainable Development in Sakha: Local Investigations using 'Climate Ethnography.' *2nd HK International Conference: Reflections on Russian "Center-Periphery" Relationships: For Sustainable Resource Development in East Siberia and the Russian Far East. Institute of Russia-CIS Studies, Korea University, Seoul, Korea*.
- March 2011 What "Lost" Cultures can Contribute to the Management of Our Planet. Woodrow Wilson International Center for Scholars, Washington, DC.
- January 2011 *WATER IN MIND: Exploring Narratives, Perceptions and Responses to Unprecedented Climate Change for Sakha of northeastern Siberia, Russia. Polarworlds International Conference, Paris, France*.
- October 2010 Investigating Cultural Implications and Local Knowledge of Global Climate Change in Northeast Siberia, Russia, *STLA and the Center for Eurasian, Russian and East European Studies, Georgetown University, Washington DC*
- April 2010 Water in Mind: Investigating the Cultural Implications of Climate Change in Siberia, *Bowdoin College, Maine; University of New England, Maine*
- January 2010 Religion and Climate Change, Potsdam, Germany
- January 2010 Water in Mind: Exploring Narratives, Perceptions and Responses to Unprecedented Climate change in NE Siberia, *Sustainability Studies, Dalhousie University, Halifax, Newfoundland, CA*
- December 2009 COP-15, Two presentations at side venues, Copenhagen, Denmark
- November 2009 Exploring Narratives, Perceptions and Responses to Unprecedented Climate change in NE Siberia, *Klimaforum, Hotel Bristol, Oslo, Norway*
- October 2009 Water in Mind: Investigating the Cultural Implications of Climate Change in Siberia, *2009 AU Public Anthropology Conference, Washington, DC*
- October 2009 Global Human Long Term Ecodynamics Conference at *Eagle Hill Maine*
- March 2009 Gone the Bull of Winter: Grappling with the Cultural Implications of and Anthropology's Role(s) in Global Climate Change, *LARU Scientific Congress, Copenhagen, Denmark*.
- March 2009 Contemplating the Human Dimensions of Encountering Global Climate Change. Beyond Kyoto, *Aarhus, Denmark*.
- February 2009 Facing Unprecedented Climate Change. National Science Foundation, *Arlington, Virginia*.
- October 2008 Hot Topics: Protecting High-Risk Communities in the Face of Global Climate Change, Shaking the Foundations, *Stanford Law School, Stanford, CA*
- August 2008. Assessing Knowledge, Resilience & Adaptation and Policy Needs in Sakha Villages of Northeastern Siberia Facing Climate Change. 6<sup>th</sup> International Congress of Arctic Social Sciences (ICASS VI), *Nuuk, Greenland*.
- November 2007. Resilience and Adaptation in Siberia: From Colonization to Diamonds to Climate Change AND Climate Change and Human Rights: Making the Case for Viliui Sakha of Northeastern Siberia. Anthropology of Global Change: Challenges for the Discipline in the 21st Century, *Invited Speaker series, Anthropology, University of Tennessee, Knoxville, TN*.
- October 2007. Climate Change and Culture Change in NE Siberia. *The XV<sup>th</sup> International Conference of the Society for Human Ecology (SHE XV), Rio de Janeiro, Brazil*.
- June 2007. Climate Change and Human Rights: Making the Case for Viliui Sakha of Northeastern Siberia. *Calotte Academy, Inari, Finland*.
- May 2007. Gone the Bull of Winter: Climate Change and Culture Change in Northeast Siberia. *National Association of Clean Air Agencies*

*Spring Membership Meeting, Louisville, Kentucky.*

### Symposiums and Workshops

- Jan 2008 Organizer, Sustainability Across the Curriculum: 2-day curriculum development training for faculty. GMU.  
Jan 2007 Organizer, Sustainability Across the Curriculum: 2-day curriculum development training for faculty. GMU.  
Nov 2003 Organizer, 2003 Havighurst Annual International Young Researchers Conference, Russia in Global Context: Peoples, Environments, Policies, MU.  
Nov 2003 Co-organizer, Window to the North: Peoples and Environments of the Arctic, MU.  
Oct 2002 Co-organizer, discussant, and session chair, Russia's Environment: Prospects and Possibilities, MU.  
Oct 2002 Discussant, Placing Gender in Postcommunism, MU.  
2001-02 Gender Role Reversals and Sakha, Role of Women in Post-Communist Transition Workshop, Kennan Institute, Washington, DC.  
Dec 2000 The Case of Elgeei, Still Red: Socialism in Practice Workshop, UNC-Chapel Hill, NC.  
Apr 1998 Discussant, Environmental Justice, Women, Environment and Empowerment, Racine, WI.

### Working Groups and Steering Committees

- 2017-date Lead author for IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC)  
2012-date Interagency Arctic research Policy Committee (IARPC)'s Arctic Communities collaboration team  
2009-15 SEARCH-Understanding Arctic Change Taskforce, Arctic Research of the United States, Fairbanks, AK  
2011-14 American Anthropological Association (AAA) Climate Change Task Force, Steering Committee.  
2006-14 Arctic Social Indicators Working Group, Team Leader, Stefansson Arctic Institute Akureyri, Iceland  
2009-13 Committee on Environmental Security, American Meteorological Society  
2010-11 Managing the Planet, Steering Committee, George Mason University, Virginia  
2004-11 Northern Research Forum, Steering Committee.  
2004-05 International Conference on Arctic Research Planning II (ICARP II), Member, Working Group 1.

### Professional Memberships

- ◆ International Arctic Social Science Association (IASSA)
- ◆ American Anthropological Association (AAA)
- ◆ Society for Applied Anthropology (SfAA)

### Teaching Experience†

- 2016-date **Professor, George Mason University:**  
*Grad-level:* Spring 2017: EVPP 637: The Human Dimensions of Climate Change  
2010-2016 **Associate Professor, George Mason University:**  
*Grad-level:* Spring '15: EVPP 692/991: Interdisciplinarity and Change  
*Grad-level:* Fall '11: EVPP 436/505: The Human Dimensions of Global Climate Change (offered same course UG/G)  
2004-2010 **Assistant Professor, George Mason University:**  
*Grad-level:* Fall '08/'09: EVPP 741: The Human Dimensions of Global Climate Change  
Spring '07/'08: EVPP 632: Qualitative Research Methods for Social Scientists  
Spring '05-'08: EVPP 741/ ANTH 580: Culture & Environment in Local to Global Perspectives  
Fall '04-'09: EVPP 635/ ANTH 580: Advanced Seminar in Human Ecology  
*UG-level:* Spring '06/'07: EVPP 336: Environment and Society  
Spring 2008: EVPP 353: People, Plants and Culture  
Fall 2007: EVPP 490: Fostering Sustainability in the 21<sup>st</sup> Century  
2002-2004 **Postdoctoral Fellow, Miami University:** Instructor for:  
Spring 2004: GEO 307: Geography of Russia and Eurasia  
ANTH 306: Peoples and Cultures of Russia and Eurasia  
Fall 2003: RUS/POL/GEO/HST/ANTH/FST 133: Imagining Russia: Film as a Window to Cultures  
GEO/IES/ITS/ATH 410: Russia in Global Context: Peoples, Environments, Policies  
Spring 2003: GEO/ ANTH /ITS /IES 410/ 510: Cultures and Environments of Russia

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† Course listed by date of first teaching

- Fall 2002: GEO/ IES / ITS 410/ 510: International Environmental Affairs: Russia  
1997-01 **Teaching Assistantship, UNC CH:** Led recitation sections, assisted students, wrote/graded exams, lectured  
Fall 2001: EST 35: Environment and Society, with Dr. Greg Gangi  
Spring 1999: BIO 11: Human Anatomy  
Spr, Fall 1998: EST 35: Environment and Society, with Dr. Greg Gangi  
Fall 1997: BIO 45: Ecology and Population Biology

### Advising Experience

#### Doctoral Main Advisor:

##### *Graduated/ Dissertation Topic:*

- Robin Brake, Understanding the Human Dimension of Sonar and Cetaceans.
- Vivek Prasad, Exploring Adaptation to Climate Change: A Bottom Up Approach in Jharkhand, India.
- Kwame Boakye-Agyei, Fostering Civic Engagement: Stakeholder Participation in Rural Projects in Ghana.
- Caroline Boules, Climate Change Adaptation and Crop Export Policies in the Tunisian Cap Bon Peninsula.
- Neil Ransom, Assessing Jua Kali Role(s) in Kenya's Climate Change Action Plan.

##### *In Progress:*

- Vera Soloveyeva, Climate Change in Oymyakon, Siberia: Perceptions, Responses and Local Knowledge.
- Ushakiran Madari, Interdisciplinary Climate Change Adaptation for the Coastal region of Andhra Pradesh, India.
- Meg Gisonda, Folktales, Bat Tales and the Human Ecology Interface.
- Taryn Bromser-Kloeden, Chesapeake Bay Climate Change Adaptation.

#### Doctoral Committee Member:

##### *Graduated/ Dissertation Topic:*

- Doug Warnock, Army Sustainability: A Study of Sustainability Efforts at U.S. Army Installations.
- Megan Draheim, Coyote-Human Conflict: The Case of Centennial and Greenwood Village, Colorado.
- Seema Shappelle, Evaluating Web Sites used to Convey Environmental Risk Information Through Fish Advisories.
- Maction Komwa, The Impact of HIV/AIDS on Rural Agricultural Households in Mayuge District, SE Uganda.
- Darrell Smith, Unearthing Cognitive Frames and Sowing Interactional Framing within Indigenous-Mining Conflict.
- Irina Stoyanova, Theorizing the Origins and Advancement of Indigenous Activism: The Case of the Russian North.
- Joanna Cornell, Creating Environmental Stewardship: Evidence from a Community-based Adult Education Program.
- Hari Bansha Dulal, Role of microcredit in rural poverty alleviation: A case study of Grameen Bikas Bank, E Nepal.

##### *In Progress:*

- Marco Pelli, The Effects of Deforestation in Brazilian Amazon Rainforest.
- Kate Gentry, Towards Effective Soundscape Conservation in National Parks.

#### Master's Main Advisor:

##### *Graduated/ Thesis Topic:*

- Charles Milling, Sense of Place: Its History, Evolution and Present Application.
- Jeremy Alcorn, U.S. Environmental Security: Understanding And Enabling it To Matter.
- Patricia Greenburg, Creating an Adaptable Urban Tree Canopy Goal Management Plan.

#### Master's Committee Member

##### *Graduated/ Thesis Topic:*

- Chelia Char, How Does an Environmental Educator Understand and Address Student Engagement in a Meaningful Watershed Educational Experience (MWEE)?
- Dana Griffith, Waste Reduction as a Model to Conservation.
- Irina Stoyanova, Safeguarding Linguistic Diversity: How Ethics Entered International Public Policy Discourse.
- Jenny Cordrey, A Stressor Identification in Total Maximum Daily Load, Smith Creek, Virginia.
- Megan Draheim, Who's Afraid of the Big, Bad Coyote? A Survey of Attitudes in the National Capital Region.
- Dorothy (Li) Wong, Public Perception of Mammals and Mammal Conservation in Ffx Cty.
- Carla Mere, Comparing Maijuna Ecological Knowledge and Scientific Census Data on Primate Populations and Habitat Preferences in the Sucusari Community, Peruvian Amazon.

#### Undergraduates

- Laura Poisson, An Analysis of the Effect of Climate Change on Respiratory Ailments:

#### Graduate Research Assistants Supervised

- Vera Soloveyeva, NSF project GRA, 2010-2013
- Neil Ransom, NSF project GRA, 2010-2013



- Caroline Boules, Presidential Scholar Award GRA, 2010-2014
- Vivek Prasad, NSF project GRA, 2008-2010
- Jenny Cordrey, ESP PhD, GRA spring 2006

#### **Foreign Student Advising**

- Lotta Numminen, PhD candidate, Finnish Institute of International Affairs, Helsinki, Finland. Dissertation: Adaptation and development of settlement patterns in the North: Case studies from the Faroe Islands and Greenland

### **Service**

#### ***University Service:***

- 2016-on **Promotion & Tenure Committee, College of Science**, George Mason University
- 2014-16 **Library Liaison and Committee on Committees**, Department of Environmental Science & Policy, GMU
- 2012-on **Academic Mentor**, BA Climate Change and Society; BS Human and Ecosystem Response to Climate Change
- 2007/08 **Sustainability Across the Curriculum co-coordinator**- facilitated 2-day faculty development workshop with 20 (2007) and 12 (2008) faculty from 10 disciplines to instill sustainability in GMU course curriculum.
- 2005-07 **Environmental Task Force co-coordinator**- holds monthly meetings of students, faculty, and administrators to facilitate campus-wide greening projects.
- 2005-08 **Undergraduate Degree Committee**- Environmental Science & Policy, George Mason University
- 2005-08 **Executive Committee**- Environmental Science & Policy, George Mason University
- 2004-07 **Earth Week '05, '06, '07 co-coordinator**- holds bimonthly meetings beginning in December through May to organize two weeks of activities celebrating Earth Day at GMU, focusing on climate change and hosting keynote speaker: '05 David Orr/'06 Bill McKibben/'07 Janisse Ray.
- 2004-07 **Chair's Advisory Committee**, Environmental Science & Policy, George Mason University
- 2004 **Policy Search Committee**, Environmental Science & Policy, George Mason University
- 2002 **Search Committee**, Ecology Curriculum, UNC-Chapel Hill.
- 2001-02 **Graduate Teaching Assistant Liaison**, Ecology Curriculum, UNC-Chapel Hill.

#### ***Community Service:***

- 2009-date **City of Fairfax's Environmental Sustainability Committee**, monthly 2-hour meetings to guide the City of Fairfax to become an environmentally sustainable "green city." This process involves resource conservation, preventing ecological harm, developing and using renewable resources and encouraging self-sufficient practices. The ESC will recommend programs and policies and undertake actions that will engage residents and businesses in the creation of a sustainable city.
- 2007/08 **The Climate Project presenter**- offers community presentations on global climate change based on training by Al Gore. Gave 35 presentations to date.

### **Language Skills**

**Sakha (Yakut):** fluent spoken, reading & writing      **Russian:** fluent spoken, reading & writing      **Mongolian:** beginning

### **References**

Dr Bruce Winterhalder (Ph.D. advisor)  
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