

**CURRICULUM VITAE**  
**Karim-Aly S. Kassam, Ph.D.**

Professor

Department of Natural Resources and the Environment, and  
American Indian and Indigenous Studies Program

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**BIOGRAPHICAL SKETCH**

Karim-Aly S. Kassam is International Professor of Environmental and Indigenous Studies in the Department of Natural Resources and the Environment, and the American Indian and Indigenous Studies Program at Cornell University. Professor Kassam's aim is to seamlessly merge research and teaching in the service of communities by investigating the relationship between biological and cultural diversity. His research examines the cultural and ecological basis of pluralism. It focuses on the complex connectivity of human and environmental relations, addressing Indigenous ways of knowing, climate change, food systems, and sustainable livelihoods. This research is conducted in partnership with Indigenous communities in the Circumpolar Arctic, Boreal Forest, as well as the Pamir Mountains of Afghanistan, Kyrgyzstan, Tajikistan, and Xinjiang. Through applied research and teaching, he articulates a rigorous methodology and pedagogy of hope. Through research and teaching, Professor Kassam strives to speak truth to power.

In 2023, the Faculty Senate of the American University of Central Asia (AUCA) awarded him Professor *Honoris Causa* "in recognition of his contributions to the culturally grounded community-based research on climate change adaptation in Central Asia, and sponsoring and supporting AUCA Students". In 2023, Professor Kassam also received the Community-Engaged Practice and Innovation Award from the David M. Einhorn Center at Cornell University for commitment and ability to integrate community engagement with Indigenous peoples into courses, leadership and research programs. Separately, he was named the 2023-24 Faculty Fellow in engaged Learning. In 2022, he was awarded the Kendall S. Carpenter Memorial Advising Award for a deep commitment to the wellbeing as well as intellectual and personal growth of undergraduate students at Cornell. In 2021, during the pandemic, he successfully organized the international "in-person" conference entitled *Rhythms of the Land: Indigenous Knowledge, Science, and Thriving Together in a Changing Climate*, safely bringing together over 80 Indigenous and non-Indigenous students, community leaders, scientists, and policy makers from the Arctic to Alpine regions of Central Asia to present research findings from transdisciplinary community-based research to build anticipatory capacity for the climate crisis. This conference simultaneously featured exhibits by international artists entitled *Art and Environmental Struggle* at the Johnson Museum of Art and an exhibit interpreting his research findings entitled *Ecological Calendars: Finding Hope in the Face of Climate Change* at the Cornell Botanic Gardens. The conference was result of a \$1.35 Million Ecological Calendars for Climate Adaptation Project (ECCAP) funded in 2016 which he led. In 2020, Professor Kassam was awarded the Global Public Fellowship to engage with wider society through art, poetry, and essays on current issues of justice. In 2017, he was awarded the University of Bayreuth (Germany) International Senior Fellowship for his contributions to the Faculty of Biology, Chemistry and Earth Sciences. In 2013, he received the College of Agriculture and Life Sciences Diversity Award for creating and fostering diversity in research and teaching. From 2008 to 2011, he was Director of Graduate Studies of the American Indian and Indigenous Studies Program. Prior to joining Cornell, Dr. Kassam was Associate Professor with the Faculty of Communication and Culture at the University of Calgary, Canada. In 2006, he received the Teaching Excellence Award from the Students' Union at the University of Calgary. He also received Teaching Excellence Awards in 2002 and 1999. In 2003, he was the first Canadian to receive the Organization of American States-Fulbright Ecology Fellowship. He founded the Theme School in Northern Planning and Development Studies at the University of Calgary in 1995 and was its first Director until 2003. From 1998 to 2001 he was the first Murray Fraser Professor of Community Economic Development at the University of Calgary. In 2003, *Venture Magazine* named him one of Alberta's 50 most influential people along with business and political leaders. Professor Kassam is currently Faculty Fellow of the Cornell Botanic Gardens and the Cornell Atkinson Center for Sustainability.

Professor Kassam holds a PhD in Natural Resource Policy and Management from Cornell University, an MSc in Social Policy and Planning in Developing Countries from the London School of Economics, an MPhil in Islamic Studies from the University of Cambridge, and a BA in Economics from the University of Calgary.

## **EDUCATION**

### **Ph.D. (2005) Cornell University (USA)**

Major: Natural Resource Policy and Management

Minors: Socio-Cultural Anthropology and Community and Regional Sociology

Dissertation Title: Diversity, Ways of Knowing, and Validity – A Demonstration of Relations between the Biological and the Cultural among Indigenous Peoples of the Circumpolar North

### **M.Sc. (1993) London School of Economics (UK)**

Major: Social Policy & Planning in Developing Countries

Thesis Title: Social Implications of NGO Promotion of Small-scale Enterprises for Rural Development using Asian and African case studies

### **M.Phil. (1992) University of Cambridge (UK)**

Major: Islamic Studies

Thesis Title: The Idea of Progress in Modern Muslim Thought

### **B.A. (1987) University of Calgary (Canada)**

Major: Economics

## **PROFESSIONAL EXPERIENCE**

2023-Present	Director of Undergraduate Studies, American Indian and Indigenous Studies Program
2020-Present	Full Professor, Department of Natural Resources and the Environment & American Indian Program, Cornell University
2008-11	Director of Graduate Studies, American Indian and Indigenous Studies Program, Cornell University, Ithaca, NY
2007-19	Associate Professor, Department of Natural Resources and the Environment & and American Indian Program, Cornell University (tenured)
2007-14	Adjunct Professor, Faculty of Communication and Culture, University of Calgary, Calgary, Alberta, Canada
2006-07	Lead, Sociocultural Team, Alaska Canada Rail Link Strategic Environmental Assessment
1998-2007	Adjunct Professor, Faculty of Environmental Design, University of Calgary
2007	Associate Professor, Faculty of Communication and Culture, University of Calgary (tenured)
2000-07	Assistant Professor, Faculty of Communication and Culture, University of Calgary
1995-2003	Director, Theme School in Northern Planning and Development Studies, University of Calgary
1995-2000	Instructor II, Faculty of Communication and Culture, University of Calgary
1994-95	Manager of Professional Services, Arctic Institute of North America, University of Calgary
1987-89	Business Research Analyst, Ministry of Economic Development and Trade, Government of Alberta, Canada

## LANGUAGES

Knowledge of Arabic, English (fluent), French, Gujarati, Katchi, Kiswahili, and Persian.

## AREAS OF EXPERTISE

Adaptive Sociocultural and Ecological Systems, Arctic Studies, Biocultural Diversity, Central Asian Studies, Climate Change, Development Studies, Environmental Justice, Ethnobiology, Food Sovereignty, Gender Analysis, Health Sovereignty, Human Ecology, Indigenous Studies, Islamic Studies, Natural Resource Policy, Participatory Action Research, Pluralism, and Ways of Knowing.

## HONORS, AWARDS, AND FELLOWSHIPS

2023-24	Faculty Fellow in Engaged Learning, David M. Einhorn Center for Community Engagement, Cornell.
2023	Professor <i>Honoris Causa</i> of the American University of Central Asia
2023	Community-Engaged Practice and Innovation Award, David M. Einhorn Center, Cornell
2021-22	Kendall S. Carpenter Memorial Student Advising Award, Cornell
2020-21	Global Public Fellow, Einaudi Center for International Studies, Cornell
2019-Present	Faculty Fellow, Cornell Botanic Gardens
2017-22	International Senior Fellowship, University of Bayreuth (Germany)
2013	Diversity Award for Research and Teaching, CALS, Cornell
2012-Present	Academician (elected), Academy of Sciences Republic of Tajikistan
2010-Present	Senior Research Fellow, University of Central Asia
2009-Present	Faculty Fellow, Cornell Atkinson Center for Sustainability
2007-Present	International Professor, Cornell
2006	Teaching Excellence Award, Students' Union, University of Calgary
2004	Popular Professor, <i>Maclean's Guide to Universities</i>
2003-05	First Canadian to receive Organization of American States – Fulbright Ecology Fellowship
2003-05	Social Sciences and Humanities Research Council (SSHRC) Doctoral Fellowship
2003	Named one of Alberta's 50 Most Influential People, <i>Alberta Venture</i> magazine
2003	Recognized for contribution Indigenous Scholarship, Canadian Senate and Public Service Commission
2002	Teaching Excellence Award, Students' Union, University of Calgary
1999	Teaching Excellence Award, Students' Union, University of Calgary
1998-2001	Founding Murray Fraser Professor of Community Economic Development
1995-Present	Research Associate, Arctic Institute of North America
1991	Fellow of the Cambridge Commonwealth Society
1989	Aga Khan Foundation Scholarship

## FIELDS OF GRADUATE TEACHING

American Studies

American Indian and Indigenous Studies

Asian Studies

Global Development  
Natural Resources and the Environment  
Peace and Conflict Studies

## TEACHING RESPONSIBILITIES

### Cornell University

2008-Present	Ways of Knowing: Indigenous and Place-based Ecological Knowledge
2010-Present	American Indian Studies II: Indigenous Issues in Global Perspectives
2012-16	Global Seminar: Building Sustainable Environments and Secure Food Systems
2011, 2012	Socio-cultural and Ecological Roles of Diversity
2010-13	Food Systems and Poverty Reduction: Concepts and Themes – Module on Culture, Community and Indigenous knowledge (NSF-IGERT)
2011-13	Food Systems and Poverty Reduction: Integration – Module on Climate Change and its Impact on Food Systems (NSF-IGERT)

### University of Calgary

2005-07	Critical Perspectives on Development Practice and Resource Management
2005-07	Sustainability and Human Ecology in the Circumpolar Arctic
2002-07	Traditional Environmental Knowledge and Northern Development
1995-2003	Northern Development and Resource Management I
1996-2003	Northern Development and Resource Management II
1996-2003	Gender and Strategic Planning
1995-2003	Individual Internship Project – Service Learning
1995-2003	Group Internship Project – Service Learning
2003	Development of the Canadian North
2000	Women's Empowerment through Development

## STUDENT MENTORING AND ADVISING

### Post-Doctoral Associates/Fellows

2021-23	Cara Steger, PhD
2021-23	Mohamed Abdou, PhD
2015-18	Morgan Ruelle, PhD
2015-17	Zahra Golshani, PhD

### Graduate Students – PhD – Committee Chair

2023-present	Sierra Hicks – <i>The social and political power dynamics involved in achieving Indigenous Knowledge &amp; Data Sovereignty.</i>
2014-20	Michael Dunaway – <i>Factors for technological appropriateness of renewable energy options for Native American reservations.</i>
2012-16	Chuan Liao – <i>Complexity in the open grazing system: Rangeland ecology, pastoral mobility and ethnobotanical knowledge in Borona, Ethiopia.</i>
2011-17	Murodbek Laldjebaev – <i>Energy security, poverty and sovereignty in mountain communities of Tajikistan.</i>
2011-15	Morgan Ruelle – <i>Human-plant ecology of an Afromontane agricultural landscape: Diversity, knowledge and food sovereignty in Debark, Ethiopia.</i>

2009-15 Michelle Baumflek – *Stewardship, health sovereignty and biocultural diversity: Contemporary medicinal plant use in indigenous communities of Maine, USA, and New Brunswick, Canada.*

**Graduate Students – Master’s – Committee Chair (at Cornell unless otherwise indicated)**

2020-Present	Ian Bellows (MA) – <i>Resilience and Anticipatory Capacity in Nepali Mountain Tourism</i>
2021-23	Omisha Manglani (MS) – <i>Cultivating Hope: Situating Place-Based Education, Health Sovereignty, and Climate Resiliency in Spiti Valley, India</i>
2018-21	Daler Kaziev (MS) – <i>Developing an ecological calendar in the agro-pastoral community of the Alia Mountains of Kyrgyzstan.</i>
2018-19	Laura Simmons-Stern (MPS) – <i>Project management trainings for climate change resilience within Lake Victoria Basin.</i>
2018-19	Yerlan Issimov (MPS) – <i>Developing policies and strategies for Kazakhstan in the framework of a trans-Eurasian trade network: The new role of the Silk Roads.</i>
2017-21	Leo Louis (MS) – <i>Another way to tell time: Ecological calendars in the Lake Oneida watershed.</i>
2017-18	Ellen Nevers (MPS) – <i>Waste not, want not: Conceptualizing waste as a resource at Cornell University.</i>
2016-19	Abraham Francis (MS) – <i>Haudenosaunee forest stewardship.</i> (co-Advisor Dr. Angela Fuller).
2016-18	Talia Chorover (MS) – <i>Ecological calendars for climate adaptation in Savnob and Roshorv, Bartang Valley, Tajikistan.</i>
2016-18	Kayla Scheimreif (MS) – <i>Ecological calendars for climate change adaptation in Sary Mogol, Kyrgyzstan.</i>
2014-16	Michelangelo Lieberman (MPS) – <i>Sunu tool (Our Garden) Identifying at-risk Quranic schools through participatory identification activities and interviews with religious leaders in Saint Louis, Senegal.</i>
2013-15	Rajeev Goyal (MPS) – <i>Government schools as a land trust mechanism to teach and conserve biodiversity in Nepal.</i>
2010-16	Chuan Liao (MS) – <i>Chasing water and grass to live: Livelihood strategies, migration patterns, and risk perceptions of pastoralists in Xinjiang, China.</i>
2012-14	Jeffrey Wall (MS) – <i>A preliminary social and biological impact assessment for the biological control of chestnut blight in Azerbaijan</i>
2009-12	Nicole Wilson (MS) – <i>Human ecological dimensions of change in the Yukon River Basin: A case study of the Koyukon Athabascan Village of Ruby, Alaska.</i>
2008-12	Jeffrey Wall (MPS) – <i>The important role of chestnut production in Northern Azerbaijan and strategies for conservation in the face of blight Cryphonectria parasitica.</i>
2008-11	Morgan Ruelle (MS) – <i>Plants and foodways of the Standing Rock Nation: Diversity, knowledge, and sovereignty.</i>
2000-03	Darwin Peter Bateyko (MDP) – <i>Evaluating co-management in the Sahtu: A framework for analysis.</i> (University of Calgary)

1998-2003 Robert A. Hawkesworth (MA) – *Examining collaborative relationships to alleviate homelessness.* (University of Calgary)

**Graduate Students—Committee Member (students at Cornell unless otherwise indicated)**

2022-Present Yousuf Mahid (PhD) – *How to Advance Nature-based Solutions in Ways that Support Climate Justice?*

2022-23 Aishwarya Shankar (MLA) – *From Wasteland to Bio-cultural Heritage: Landscape Ethnography of a Hidden Plateau in Konkan, India.*

2020-21 Rewa Phansalkar (MRP) – *Conceptualizing Coastal Climate Adaptation: Contrasting US State-led Coastal Adaptation Efforts with Indigenous Approaches*

2019-Present Sudan Kariuki (PhD) – *Understanding Ecological Processes in Restored Sacred Kaya Forests in Kenya.*

2018-Present Stephanie Enloe (PhD) – *Negotiated agricultural knowledge in northern Malawi.*

2015-17 Shoshana Perey (MS) – *Food sovereignty, gender and transitions in traditional culinary knowledge in the Chinantla, Oaxaca, Mexico.*

2010-13 Robert Hunter (PhD) – *Proterozoic Assembly of North America: Insight from the interactions of deformation, metamorphism and magmatism in the southwestern United States.*

2013-19 Robert Beazley (PhD) – *Mobility pathways: Mobile lives in trans-Himalayan Power Corridor.*

2012-13 Suhaily Mamadramov (MSW) – *Climate change: The impact on food security for mountain communities in Tajikistan.* (Washington University, St. Louis, MO)

2010-11 Danielle Pensley (MA) – *Existence, persistence, resistance: Preserving subsistence in the Copper River Delta of Southcentral Alaska*

2008-13 Robert Beazley (MS) – *Impacts of expanding rural road networks on communities in the Annapurna Conservation Area, Nepal.*

2008-10 Charles Burgess (MA) – *Mapping Muheakunnuk: GIS and the living landscapes of the Mohican Valley*

2008 Miftahul Hasnat Syed (MPS) – *Traditional water harvesting in arid areas of Asia: Potential approaches for mitigating drought effects in Afghanistan.*

2002 Jennifer McKillop (MDP) – *Toward culturally appropriate consultation: An Approach for Fort McKay First Nation* (University of Calgary)

2000-02 Frederick McDonald (MFA) – *Ancestral Portraits: The colour of my people.* (University of Calgary)

2000-04 Cynthia Burger (MDP) – *An exploration of community development: Theory and practice.* (University of Calgary)

**Visiting Fellows – Advisor and Mentor**

2023-Present Dr. Noor Ahmad Akundzadah, former Dean of the Faculty of Environment, Kabul University, Afghanistan

2018 Aziz Ali, University of Central Asia

2011 Umed Bulbulshoev, University of Central Asia

2010 Munira Karamkhudoeva, Pamir Biological Institute, Academy of Sciences of the Republic of Tajikistan.

**Undergraduate Honors Students – Advisor (students at Cornell unless otherwise indicated)**

2022-Present	Ashira Weinreich, College Scholar – <i>Parallels among varying Ethnic and Cultural groups’ healing practices and beliefs.</i>
2019-21	Omisha Manglani – <i>Nationalized Education in India: The Challenge for Indigenous Mountain Peoples of Spiti.</i>
2019-20	Anna Ullmann – <i>A Transdisciplinary Methodology of Hope: The Impact of Climate Change on Indicator Species of the Bartang Valley, Tajikistan.</i>
2019-20	Iriel Edwards – <i>Food Security in the Oneida Lake Watershed.</i>
2016-17	Tamar Law – <i>Hive Mind: The Biocultural Status of Beekeeping in Manakara, Madagascar.</i>
2015-16	Anna Brown – <i>Mato, Manche Ra Janawar (Soil, Man and Animal): How the relationships between humans, animals and land in Sikles, Nepal inform Stewardship.</i>
2015-16	Kelsey Poljacik – <i>An Assessment of Co-management in the Context of the Randilen Wildlife Management Area, Tanzania.</i>
2009-11	Sherry Martin – <i>Indigenous Knowledge for Conservation of Natural and Cultural Resources: A Case Study in the Wet Tropics World Heritage Area of Far North Queensland.</i>
2002-03	May Mah – <i>Dancing Mirrors: CIDA’s Human Rights Policy for China.</i> (University of Calgary)

**Research Assistants - Supervisor**

2022-Present	Billie Koffman
2021-Present	Aishwarya Shankar
2021	Kania Thea Pradipta
2020-22	Hayley Tessler
2021	Alexandra Mantilla
2020-21	Anna Ullmann
2017-20	Iriel Edwards
2017	Madeline Rich
2016	Nancy Cheng
2015-16	Jillian Solomon
2008-12	Phoenix Storm Paz
2007-08	Alia Jones
2006	Lesley Campbell
2006	Tara Collins
2006	Jeffery Halvorsen
2006	Heath McLeod

**SERVICE**

**Pro bono publico**

2021	Subject Matter Expert to the Director and Cast of <i>Timebomb</i> a climate change comedy by Carson Kretizer (playwright), Kitchen Theatre, Ithaca.
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2019-Present	Member, Editorial Board of the Journal <i>Human Ecology</i>
2019-Present	Associate Editor Emeritus, <i>Action Research Journal</i>
2017-Present	Associate Editor, <i>Journal of Ethnobiology and Ethnomedicine</i>
2014-Present	Member, Ecological Society of America U.S. Steering Committee for the Intergovernmental Science-Policy Platform for Biodiversity and Ecosystem Services (IPBES)
2014-19	Associate Editor, <i>Action Research Journal</i>
2014-16	Board Member (elected), International Society of Ethnobiology
2014	Independent Evaluator: Mountains Societies Research Institute, University of Central Asia
2013-18	Co-Chair, Youth Nature and Outdoor Education Program Work Team
2013	NSF Panel Reviewer, Experimental Program to Stimulate Competitive Research Reverse Site Visit for reviewing the progress of three NSF Research Infrastructure Improvement Track-1 awards (\$20 Million each)
2012-14	Leader, design and development of the “Earth and Environmental Science” Undergraduate Curriculum for the University of Central Asia
2002	Organizer of Symposium on Canada and September 11 <sup>th</sup> – Raised funding for, and coordinated participation of, nine speakers from NGOs, corporations, the Federal Cabinet, newspaper media, academia, and First Nations
2001-03	Advisor, Committee on the <i>Inuvut</i> Exhibit, Glenbow Museum, Calgary, AB. One of four members (and the only academic and non-Inuit member) of the advisory committee that guided the objectives and messages that this circumpolar exhibit would convey. Responsible for developing the exhibit and commenting on the substance of the ideas to be conveyed to ordinary citizens in order to raise awareness about the Canadian North
1998-99	Member of the Expressions of the Pamir task force that conceived, organized, and implemented performances across Canada of 22 performing Artists from the Pamir Mountains of Tajikistan and an 8000- square-foot exhibition of art and artifacts from Central Asia. Total cost of the project was approximately \$1 Million, which was raised from private donors, and 3000 volunteers across Canada contributed their time and energy
1999	Facilitator, Canadian Polar Commission – Developed the Three-Year Strategic Road Map for the Minister and Commissioners as a service to Canada
1996-2002	Board Member, Ismaili Tariqa and Religious Education Board for Canada – Participated in policy and program planning for 75,000 Ismaili Muslims across Canada. Led a team that (1) dealt with issues, concerns and program planning for 15,000 Ismaili youth and (2) planned policy and programs that would highlight the relationship between religious expression and cultural formation
1993	Member of Design Team, Third World Planning for Real, London School of Economics, UK – Developed a model for an inexpensive and effective means of community participation to identify needs and implement solutions



1991	Researcher, Ismaili Council of Syria, Examined the impact of a six-year drought on agricultural communities and made recommendations for responses
1985-87	President, World University Service of Canada – Established the first Refugee Sponsorship Program at an Alberta university by creating a student-funded endowment that enables students to sponsor a new refugee student annually for undergraduate study and permanent resident status
1985	Independent Evaluator, Aga Khan Rural Support Program (AKRSP), Pakistan

### **Cornell University**

2023-Present	Appointed by Faculty Senate as member of A.D. White Professor-at-Large Selection Committee
2023	Reviewer for Harrop and Ruth Freeman Prize and Fellowships in Peace Studies
2022-Present	Faculty Steering Committee of the Einaudi International Center on Inequalities, Identities, and Justice
2022-Present	Member of the College of Agriculture and Life Sciences Curriculum Committee.
2022-23	Faculty Fellow, Dickson House
2020-21	Working Group Member, Proposed Center for Antiracist, Just, and Equitable Futures, Reported to the Senate and Provost
2020-Present	Member (elected), College of Agriculture and Life Sciences Diversity and Inclusion Committee
2020-21	Anti-Racism Think Tank, Cornell University Library
2020-21	Member, English Language Support Office (ELSO) Advisory Board
2020	Reviewer, Graduate Student Travel Grants, Peace and Conflict Studies
2020	Reviewer, Udall Scholarships
2019	Reviewer, Academic Venture Fund Proposals, Atkinson Center for a Sustainable Future
2019	Reviewer, Graduate Fellowships, Judith Reppy Institute for Peace and Conflict Studies
2019	Reviewer, South Asian Studies Fellowship, South Asia Program
2019-2022	Faculty Fellow, Keeton House
2019-20	Member, Seminar Committee, Department of Natural Resources
2018-19	Faculty Fellow, American Indian & Indigenous Studies Program
2017-Present	Member of Nepal and Himalayan Studies Advisory Committee
2017-Present	Member of South Asia Program Advisory Committee
2017-18	Member of MPS Degree Programs Review Committee for the Global Development Graduate Field at Cornell University
2016-Present	Member of Cornell University Library Board – help formulate library policy for Cornell’s library system (\$65 Million) and serve as an advocate for the University Libraries.
2016-17	Member of Faculty Task Force on Curricular Practical Training (CPT) at Cornell University – made policy recommendations to the Vice Provost for International Affairs on Internships at Cornell University.

2015-17	Co-Organizer of Department of Natural Resources Seminar Committee
2015-Present	Member of Advisory Committee, Peace and Conflict Studies, Cornell University
2015	Member of Department of Natural Resources Post-Doctoral Committee
2013-16	Member of Department of Natural Resources Graduate Admissions Committee
2013	Member, Language Task Force of the Provost, Cornell University – Developed policy for language instruction at Cornell University based on the significance of languages for cognitive diversity and the role of indigenous languages in applied biological and social science research as well as the humanities
2012-14	Member, Land Grant Reconsidered – Sesquicentennial Celebrations
2012-13	Faculty Fellow, American Indian & Indigenous Studies Program
2010, 2013	Reviewer, Foreign Language and Area Studies (FLAS) Fellowship Selection Committee, South Asia Program
2010	Grant Reviewer, Institute of Social Science
2008-13	Elected Member, Diversity Committee of the College of Agriculture and Life Sciences
2008	Member, Seminar Committee, Department of Natural Resources
2008-09	Faculty Fellow, American Indian program

### **University of Calgary**

2000-07	Member, Committee on Appeals, Faculty of Communication and Culture
2005-07	Elected Member, Curriculum Committee, Faculty of Communication and Culture
2005-07	Representative of the Faculty of Communication and Culture to the Faculty of Environmental Design
2001-03	Member, The Ernest C. Manning Endowment Campaign for The Program for Canadian Studies, Faculty of Communication and Culture
2002	Elected Member, Faculty Promotions Committee, Faculty of Communication and Culture
2000	Member, Selection Committee for Curator of Numismatics, Nickel Arts Museum
1995-2000	Member of Council, Division of International Development of the International Centre
1994-2001	Member, University of Calgary Grant Review Committee, Northern Scientific Training Program
1994-99	Acting Executive Director, The Arctic Institute of North America, in the absence of the Executive Director

### **PROFESSIONAL ORGANIZATION MEMBERSHIPS**

American Geophysical Union  
Arctic Institute of North America  
Association of American Geographers  
Ecological Society of America  
International Society of Ethnobiology

Society for Applied Anthropology

## **RESEARCH FUNDING**

Role: Kassam, K-A. (PI); Slayton, R. (Co-PI)

Project: Rhythms of the Land: Indigenous Knowledge, Science, and Thriving Together in a Changing Climate International Conference (2021)

Funding Agency: Cornell Center for Social Sciences. (\$5,000)

Role: Kassam, K-A. (Co-PI); Pandya, R. (Co-PI)

Project: Rhythms of the Land: Indigenous Knowledge, Science, and Thriving Together in a Changing Climate International Conference (2021)

Funding Agency: Rita Allen Foundation. (\$50,000)

Role: Kassam, K-A. (PI)

Project: Rhythms of the Land: Indigenous Knowledge, Science, and Thriving Together in a Changing Climate International Conference (2021)

Funding Agency: Seed Grant, Mario Einaudi Center for International Studies, Cornell (\$10,000)

Role: Kassam, K-A. (PI)

Project: Rhythms of the Land: Indigenous Knowledge, Science, and Thriving Together in a Changing Climate International Conference (2021)

Funding Agency: Dean, College of Agriculture and Life Sciences, Cornell (\$15,000)

Role: Kassam, K-A. (PI)

Project: Rhythms of the Land: Indigenous Knowledge, Science, and Thriving Together in a Changing Climate International Conference (2021)

Funding Agency: Department of Natural Resources and the Environment, Cornell (\$15,000)

Role: Kassam, K-A. (Fellow); MacDonald, F. (Fellow)

Project: Global Public Voices (GPV) Faculty Fellows (2020-21)

Funding Agency: Mario Einaudi Center for International Studies (\$1000)

Role: Slayton, R. (PI); Kassam, K-A. (Co-PI)

Project: Peacebuilding, Climate Change, and Migration Workshop (2021)

Funding Agency: Cornell Migrations Global Grand Challenge (\$15,000)

Role: Kassam, K-A. (PI); Babiracki, C. (Collaborator); Dadi, I. (Collaborator)

Project: Transdisciplinary Challenge: The Role of Indigenous Knowledge in Adapting to Climate Change (2021)

Funding Agency: Central New York Humanities Corridor - Humanities Corridor Conference Initiative (\$10,000)

Role: Kassam, K-A. (PI)

Project: Science Diplomacy – Achieving Effective Policy Change (2018)

Funding Agency: Atkinson Center for a Sustainable Future (ACSF): Rapid Response Fund (\$3252)

Role: Kassam, K-A (Lead PI); Samimi, C. (PI); Trabucco, A. (PI); Xu, J. (PI)  
Project: Ecological Calendars and Climate Adaptation in the Pamirs (2016-2022)  
Funding Agency: Belmont Forum, including National Science Foundation USA (\$1.35 million)

Role: Kassam, K-A. (PI)  
Project: Engaging Environmental Education through Teen Experiential Learning Programs (2016-2018)  
Funding Agency: U.S. Department of Agriculture (USDA), National Institute of Food & Agriculture (\$27,500).

Role: Kassam, K-A. (PI); Fuller, A. (Collaborator)  
Project: Sustainable Forest Communities: Integrated Land Stewardship Strategy for Native American Land Claims (2015-2019)  
Funding Agency: U.S. Department of Agriculture, National Institute of Food and Agriculture, McIntire Stennis Federal Capacity Funds (\$80,110)

Role: Kassam, K-A. (PI); Rodewald, A. (Co-PI); Dunn, C. (Co-PI); Wolf, D. (Co-PI).  
Project: Ecological Calendars to Anticipate Climate Change (2015-21)  
Funding Agency: Atkinson Center for a Sustainable Future (ACSF): Academic Venture Fund (\$98,956)  
Additional Award: \$1000 Poster Competition on Research Findings (2016)

Role: Kassam, K-A. (PI)  
Project: Igniting Innovation and Knowledge Exchange for Food and Health Sovereignty in Indigenous Mountain Communities (2014-15)  
Funding Agency: Atkinson Center for a Sustainable Future (ACSF): Rapid Response Fund (\$14,405)

Role: Kassam, K-A. (PI)  
Project: Earth and Environmental Science Curriculum Development for an International University in Mountain Societies (2014)  
Funding Agency: South Asia Program, Cornell: Internationalization Faculty Award (\$1500)

Role: Kassam, K-A. (PI)  
Project: Engaging Environmental Education through Teen Experiential Learning Programs (2013-2016)  
Funding Agency: U.S. Department of Agriculture (USDA), National Institute of Food and Agriculture, Federal Formula Funds (\$75,000).

Role: Schneider, R. (PI); Dong, S. (Co-PI); Li, C. (Co-PI); Kassam, K-A.; Lassoie, J.; Morreale (Collaborators)  
Project: Blueprint for Sustainable, Ecologically-based, Watershed Management in China: A Workshop on Lessons Learned Globally (2011).  
Funding Agency: Sean Jeffrey Lehman Fund for Scholarly Exchange with China, Cornell University (\$15,000).

Role: Wilkes, G. (PI); Kassam, K-A (Co-PI)  
Project: Pluralism in Crisis (2010-2011).  
Funding Agency: Scottish Institute for Advanced Studies (£25,000).

Role: Kassam, K-A. (PI)  
Project: Guidelines for Incorporating Biocultural Diversity into Northern Forest Resource Management (2009-2012).  
Funding Agency: Northeastern States Research Cooperative (\$100,214).

Role: Lassoie, J. (PI); Kassam, K-A. (Co-PI)  
Project: Bridging Learners with Practitioners: Interdisciplinary Experiential Learning in Conservation Science using Conservation Bridge (2009-2013).  
Funding Agency: National Science Foundation (\$149,698).

Role: Kassam, K-A. (PI)  
Project: Beyond Diversity: Re-Situating Pluralism (2008-2011).  
Funding Agency: Cornell Center for a Sustainable Future (\$12,000), Institute of Social Science (\$5000), American Indian Program (\$1500); and the Einaudi International Center (\$1000).

Role: Lassoie, J. (PI); Dong, S. (Co-PI); Kassam, K-A. (Co-PI)  
Project: Response of Coupled Socio-Cultural and Natural Systems to Development Projects in Complex Landscapes of Northwestern Yunnan, China: A Study of Conservation and Sustainable Development (2008-2009).  
Funding Agency: Sean Jeffrey Lehman Fund for Scholarly Exchange with China (\$15,000).

Role: Kassam, K-A. (PI)  
Project: Indigenous People, Alpine Human Ecology, and Change in the Pamir Mountains of Afghanistan and Tajikistan (2007-2012).  
Funding Agency: Christensen Fund (\$158,300).

Role: Kassam, K-A. (PI)  
Project: Indigenous Knowledge, Food Security, and Bio-Cultural Diversity in Badakhshan Afghanistan and Tajikistan (2006-2007).  
Funding Agency: Christensen Fund (\$30,000).

Role: Ramarao, I. (PI); Kassam, K-A. (Co-PI)  
Project: Shastri Applied Research Project (SHARP): Building Capacities of Rural Communities through People's Institutions: Self-Help Groups (SHGs) as Channels for Infrastructure Development and Economic Empowerment (2003-6).  
Funding Agency: Canadian International Development Agency and the Shastri-Indo-Canadian Institute (\$96,664).

Role: Norton, D. W. (PI); Kassam, K-A. (Co-PI)  
Project: Linking Remote-sensing Information with Natural History and Traditional Knowledge through Case Studies of Unusual Sea Ice Conditions Project (1999-2001).

Funding Agency: National Science Foundation (\$24,000).

Role: Ramarao, I. (PI); Kassam, K-A. (Co-PI)

Project: The Empowerment of Women: The Role of Indigenous Women in Forestry Development (1998-2001).

Funding Agency: Canadian International Development Agency and the Shastri-Indo-Canadian Institute (\$100,000).

Role: Norton, D. W. (PI); Kassam, K-A. (Co-PI); O'Hara, T. (Co-PI); Muir, D. (Co-PI)

Project: The Human Ecology and the Impact of Chemical Pollutants on Arctic Marine Communities Project (1998-2001).

Funding Agency: National Oceanic and Atmospheric Association (\$200,000).

Role: Robinson, M. (PI); Binder, L. (Co-PI); Kassam K-A. (Co-PI)

Project: The Russian Sami Co-Management Project (1995-1998).

Funding Agency: Gorbachev Foundation (\$95,000).

## **PUBLICATIONS**

### **Peer-Reviewed Journal Articles**

Kassam, K. A. S., Charles, M. T., & Johnson, S. M. (2023). Significance of Different Ways of Knowing in Responding to the Climate Crisis: The Necessity for Indigenous Knowledge. *PLOS Climate*, 2(7): e000023. <https://doi.org/10.1371/journal.pclm.0000237>.

Kassam, K. A. S., Ruelle, M., Dunn, C. P., Pandya, R., & Wyndham, F. (2023). Rhythms of the Earth—Editorial introduction. *GeoHealth*, 7(4). <https://doi.org/10.1029/2023GH000815>.

Kassam, K. A. S., & Bernardo, J. (2022). Role of biodiversity in ecological calendars and its implications for food sovereignty: Empirical assessment of the resilience of indicator species to anthropogenic climate change. *GeoHealth*, 6(10). <https://doi.org/10.1029/2022GH000614>.

Ruelle, M. L., Skye, A. J., Collins, E., & Kassam, K. A. S. (2022). Ecological calendars, food sovereignty, and climate adaptation in Standing Rock. *GeoHealth*, 6(12). <https://doi.org/10.1029/2022GH000621>.

Ullmann, A. L., & Kassam, K.-A. S. (2022). Has the adaptation-mitigation binary outlived its value? Indigenous ways of knowing present an alternative. *Community Science*, 1, e2022CSJ000008. <https://doi.org/10.1029/2022CSJ000008>

Karamkhudoeva, M., Laldjebaev, M., Ruelle, M. & Kassam, K.-A. (2021). Medicinal Plants and Health Sovereignty in Badakhshan, Afghanistan: Diversity, Stewardship, and Gendered Knowledge. *Human Ecology*, 49(6), 809–829. <https://doi.org/10.1007/s10745-021-00270-9>.

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Kassam, K.-A. (2021). Transdisciplinary Research, Indigenous Knowledge, and wicked problems. *Rangelands*, 43(4), 133–141. <https://doi.org/10.1016/j.rala.2021.04.002>.

Baumflek, M., Kassam, K-A., Ginger, C., Emery, M. R. (2021) Incorporating Biocultural Approaches in Forest Management: Insights from a Case Study of Indigenous Plant

- Stewardship in Maine, USA and New Brunswick, Canada, *Society & Natural Resources*, 34(9), 1155-1173, DOI: [10.1080/08941920.2021.1944411](https://doi.org/10.1080/08941920.2021.1944411).
- Steger, C., Klein, J. A., Reid, R. S., Lavorel, S., Tucker, C., Hopping, K. A., Marchant, R., Teel, T., Cuni-Sanchez, A., Dorji, T., Greenwood, G., Huber, R., Kassam, K-A., Kreuer, D., Nolin, A., Russell, A., Sharp, J., Hribar, M. Š., Thorn, J. P. R., Grant, G., Mahdi, M., Moreno, M., Waiswa, D. (2021). Science with Society: Evidence-based Guidance for Best Practices in Environmental Transdisciplinary Work. *Global Environmental Change*, 68, 1-15. <https://doi.org/10.1016/j.gloenvcha.2021.102240>.
- Haag, I., Kassam, K-A., Senftl, T., Zandler, H., Samimi, C. (2021). Measurements meet human observations: integrating distinctive ways of knowing in the Pamir Mountains of Tajikistan to assess local climate change. *Climatic Change*, 165(5), 1-22. <https://doi.org/10.1007/s10584-021-02988-3>.
- Ruckelshaus, M. H., Jackson, S. T., Mooney, H. A., Jacobs, K. L., Kassam, K. A. S., Arroyo, M. T., ... & Ouyang, Z. (2020). The IPBES Global Assessment: Pathways to Action. *Trends in Ecology & Evolution*, 35(5), 407-414. <https://doi.org/10.1016/j.tree.2020.01.009>
- Haag, I., Kassam, K-A., Samimi, C. (2019). Ökologische Kalender im Pamir: Anpassung an den Klimawandel auf dem Dach der Welt. *Geographische Rundschau*, 12, 26-31.
- Ruelle, M.L., Kassam, K-A., Morreale, S.J., Asfaw, Z., Power, A.G., & Fahey, T.J. (2019). Biocultural diversity and food sovereignty: A case study of human-plant relations in northwestern Ethiopia. *Food Security*, 11(1), 183-199. <https://doi.org/10.1007/s12571-019-00888-0>
- Kassam, K-A.S., Ruelle, M.L., Samimi, C. Trabucco, A., & Xu, J. (2018). Anticipating climatic variability: The potential of ecological calendars. *Human Ecology*, 46(2), 249-257. <https://doi.org/10.1007/s10745-018-9970-5>
- Laldjebaev, M., Morreale, S.J., Sovacool, B.K., & Kassam, K-A.S. (2018). Rethinking energy security and services in practice: National vulnerability and three energy pathways in Tajikistan. *Energy Policy*, 114, 39-50. <https://doi.org/10.1016/j.enpol.2017.11.058>
- Ruelle, M.L., Kassam, K-A., & Asfaw, Z. (2017). Human ecology of sacred space: Church forests in the highlands of northwestern Ethiopia. *Environmental Conservation*, 45(3), 291-300. <https://doi.org/10.1017/S0376892917000534>
- Kassam, K-A.S., Avery, L.M., & Ruelle, M.L. (2017). The cognitive relevance of Indigenous and rural: Why is it critical to survival? *Cultural Studies in Science Education (CSSE)*, Special Issue on Rural Science Education, 12, 97-118. <https://doi.org/10.1007/s11422-016-9745-5>.
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- Liao, C., Ruelle, M., & Kassam, K-A. (2016). Indigenous ecological knowledge as the basis for adaptive environmental management: Evidence from pastoralist communities in the Horn of Africa. *Journal of Environmental Management*, 182, 70-79. <https://doi.org/10.1016/j.jenvman.2016.07.032>
- Liao, C., Barrett, C., & Kassam, K-A. (2015). Does diversification improve livelihoods? Pastoral households in Xinjiang, China. *Development and Change* 46(6), 1302–1330.
- Fahey, T.J., Templer, P.H., Anderson, B.T., Battles, J.J., Campbell J.L., Driscoll, C.T., ... Vadeboncoeur, M.A. (2015). The promise and peril of intensive-site-based ecological

- research: Insights from the Hubbard Brook ecosystem study (ESA Centennial Paper). *Ecology*, 96(4), 885–901. <https://www.jstor.org/stable/43494748>
- Baumflek, M., DeGloria, S., & Kassam, K. A. (2015). Habitat modeling for health sovereignty: Increasing indigenous access to medicinal plants in northern Maine, USA. *Applied Geography*, 56, 83-94. <https://doi.org/10.1016/j.apgeog.2014.10.012>
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- Liao, C., Sullivan, P.J., Barrett, C.B., & Kassam, K-A. (2014). Socioenvironmental threats to pastoral livelihoods: Risk perceptions in the Altay and Tianshan Mountains of Xinjiang, China. *Risk Analysis*, 34(4), 640-655. <https://doi.org/10.1111/risa.12146>
- Ruelle, M., & Kassam, K-A. (2013). Foodways transmission in the Standing Rock Nation. *Food and Foodways* 21(4), 315-339. <https://doi.org/10.1080/07409710.2013.850007>
- Ogden, L., Heynen, N., Oslender, U., West, P. Kassam K-A., & Robbins, P. (2013). Global assemblages, resilience, and earth stewardship in the Anthropocene. *Frontiers in Ecology and Environment*, 11(7), 341-347. <https://doi.org/10.1890/120327>
- Kassam, K-A., & Avery, L. (2013). The *oikos* of rural children: A lesson for the adults in experiential education. *Journal of Sustainability Education*, 5, 1-17. [http://www.jsedimensions.org/wordpress/content/the-oikos-of-rural-children-a-lesson-for-the-adults-in-experiential-education\\_2013\\_05/](http://www.jsedimensions.org/wordpress/content/the-oikos-of-rural-children-a-lesson-for-the-adults-in-experiential-education_2013_05/)
- Kassam, K-A., Bulbulshoev, U., & Ruelle, M. (2011). Ecology of time: Calendar of the human body in the Pamir Mountains. *Journal of Persianate Studies*, 4(2), 146-170. <https://doi.org/10.1163/187471611X600369>
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- Ruelle, M., & Kassam, K-A. (2011). Diversity of plant knowledge as an adaptive asset: A case study with Standing Rock elders. *Economic Botany*, 65(3), 295-307. <http://www.jstor.org/stable/41408239>
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- Kassam, K-A., Karamkhudoeva, M., Ruelle, M., & Baumflek, M. (2010). Medicinal plant use and health sovereignty: Findings from the Tajik and Afghan Pamirs, *Human Ecology*, 38(6), 817-829. <https://doi.org/10.1007/s10745-010-9356-9>
- Kassam, K-A. (2010). Pluralism, resilience, and the ecology of survival: Case studies from the Pamir Mountains of Afghanistan. *Ecology & Society*, 15(2), 8. [online] URL: <http://www.ecologyandsociety.org/vol15/iss2/art8/>.
- Kassam, K-A. (2010). Practical wisdom and ethical awareness through student experiences of development. *Development in Practice*, 20(2), 205-218. Retrieved from <http://www.jstor.org/stable/27806687>



- Kassam, K-A. (2010). Coupled socio-cultural and ecological systems at the margins: Arctic and Alpine cases, *Frontiers of Earth Science in China*, 4(1), 89-98. <https://doi.org/10.1007/s11707-010-0008-6>
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- Kassam, K-A. (2007). Fièrè: Effective practices in self-help institutions. *My Society*, 1(1), 17-38.
- Kassam, K-A., & Tettey, W. (2003). Academics as citizens: Collaborative interdisciplinary research in the service of communities. *Canadian Journal of Development Studies*, 24(1), 155-174. <https://doi.org/10.1080/02255189.2003.9668902>
- Kassam, K-A. (1998). The idea of progress in modern Muslim thought: The views of 'Abduh and Iqbal on reason and tradition. *Islamica*, 2(4), 45-49.
- Kassam, K-A. (1997). Gender analysis: Its strengths and weaknesses, and requisite skills for effective gender planning. *Social Development Issues*, 19(2/3), 189-202.
- Kassam, K-A. (1993-94). Integration of Islam in Young Ottoman thought. Part I in *Islamica* 1(3), 10-14. Part II in *Islamica*, 1(4), 15-21.

#### **Books (\* indicates Peer-Reviewed)**

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- Dong, S., Kassam, K-A.S., Tourrand, J., & Boone, R. (Eds.). (2016). *Building resilience of human-natural systems of pastoralism in the developing world: Interdisciplinary perspectives*. New York, NY: Springer. <https://doi.org/10.1007/978-3-319-30732-9> \*
- Kassam, K-A. (Ed.). (2010). *Understanding terror: Perspectives for Canadians*. Calgary, AB: University of Calgary Press. <https://doi.org/10.2307/j.ctv6gqvkk> \*
- Kassam, K-A. (2009). *Biocultural diversity and indigenous ways of knowing: Human ecology in the Arctic*. Calgary, AB: University of Calgary Press. <https://dx.doi.org/10.2307/j.ctv6gqsbf> \*
- Kassam, K-A., Melnyk, G., & Perras, L. (Eds.). (2002). *Canada and September 11<sup>th</sup>: Impact and responses*. Calgary, AB: Detselig.
- Kassam, K-A., & the Soaring Eagle Friendship Centre. (2001). *So that our voices are heard: Forest use and changing gender roles of Dene women in Hay River, Northwest Territories*. Calgary, AB: CIDA-Shastri Partnership Programme. \*
- Kassam, K-A., & the Wainwright Traditional Council. (2001). *Passing on the knowledge: Mapping human ecology in Wainwright, Alaska*. Calgary, AB: Arctic Institute of North America. \*
- Robinson, M., & Kassam, K-A. 1998. *Sami potatoes: Living with reindeer and perestroika*. Calgary: Bayeux Arts. (Translated and published in Russian, 2000). \*

#### **Book Chapters (\* indicates Peer-Reviewed)**

- Kassam, K-A. 2021. Anthropogenic Climate Change, Anxiety, and the Sacred: The Role of ecological calendars in the Pamir Mountains of Central Asia (Chapter 6). In D. Haberman (Ed.), *Understanding climate change through religious lifeworlds*, 153-179. Bloomington,

- IN: Indiana University Press. <https://publish.iupress.indiana.edu/read/understanding-climate-change-through-religious-lifeworlds/section/ac473773-20c1-4ce3-9c87-bf8c396414a8#sec10> \*
- Reid, R. S., Fernández-Giménez, M. E., Wilmer, H., Pickering, T., Kassam, K.-A. S., Yasin, A., Porensky, L. M., Derner, J. D., Nkedianye, D., Jamsranjav, C., Jamiyansharav, K., Ulambayar, T., Oteros-Rozas, E., Ravera, F., Bulbulshoev, U., Kaziev, D. S., & Knapp, C. N. (2021). Using Research to Support Transformative Impacts on Complex, “Wicked Problems” With Pastoral Peoples in Rangelands. *Frontiers in Sustainable Food Systems*, 4, 273. <https://www.frontiersin.org/article/10.3389/fsufs.2020.600689> \*
- Kassam, K-A., Golshani, Z., & Krasny, M.E. (2018). Grassroots stewardship in Iran: The rise and significance of nature cleaners. In M.E. Krasny (Ed.), *Grassroots to global: Broader impacts of civic ecology* (pp. 65-84). Ithaca, NY: Cornell University Press. \*
- Kassam, K-A., Liao, C., & Dong, S. (2016). Sociocultural and ecological systems of pastoralism in Inner Asia: Cases from Xinjiang and Inner Mongolia in China and the Pamirs of Badakhshan, Afghanistan. In S. Dong, K-A. Kassam, J. Tourrand, & R. Boone (Eds.), *Building resilience of human-natural systems of pastoralism in the developing world: Interdisciplinary perspectives* (pp. 137-175). New York, NY: Springer. \*
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### **Films & Web-Based Case Studies**

- Baumflek, M., Kassam, K-A., & Bear, R. (2015). *Maliseet stewardship of plants* [film]. <http://www2.dnr.cornell.edu/kassam/filmsmedia.html>
- Kassam, K-A., & Herring, R. (2012). *Protecting the sacred: The conservation of three sacred sites in the Pamir Mountains* [film]. <http://www2.dnr.cornell.edu/kassam/filmsmedia.html>
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### **Curriculum Materials**

- Leemans, A., Bowe, J., Decker, D. J., & Kassam, K-A. (2018). *Wildlife Notebook*. Ithaca: Cornell Cooperative Extension and New York State 4-H (32 pages). <https://nys4-h.org/curriculum>
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- Henderson, A., Bowe, J., Krasny, M., & Kassam, K-A. (2018). *Trees: Dead or Alive*. Ithaca: Cornell Cooperative Extension and New York State 4-H (52 pages). <https://nys4-h.org/curriculum>
- Broch, L. C., Culver, T.E., Krasny, M., & Kassam, K-A. (2018). *Fishing FUNdamentals*, Books 1-8 & Youth Journal. Ithaca: Cornell Cooperative Extension and New York State 4-H (224 pages). <https://nys4-h.org/curriculum>
- Baumflek, M., & Kassam, K-A. (2015). *Sharing what we Gather: Sharing, Medicinal Plants and Health Sovereignty in Wabanaki Communities*. [Lesson Plan, Grades 9-12]. <http://www2.dnr.cornell.edu/kassam/outreach.html>
- Baumflek, M., & Kassam, K-A. (2015). *Rethinking Wild: Native American Plant Management Strategies*. [Lesson Plan Grades 9-12]. <http://www2.dnr.cornell.edu/kassam/outreach.html>
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### **Invited Essays**

- Kassam, K-A. (2000). Why do we need artists? A meditation on the relationship between religious experience and cultural expression. *Ismaili USA*, July 2000.
- Kassam, K-A. (2000). Civilizational thinking: An invitation to participate. *Ismaili Canada*, July 2000.
- Kassam, K-A & Avdeeva, L. (1997). The life of a Sami *Dom Cultura* (Cultural Centre) in the Russian Arctic. *Museums Review*, 23(4), 29-31.
- Norton, D., & Kassam, K-A. (1997). Theme schools: From manifesto to paradigm for undergraduate students. *Arctic*, 50(1), 87-94.
- Kassam, K-A. (1997). Clash of civilizations: The selling of fear. *Islam in America*, 3(4), 8-15.

### **Editorial, Letters, Foreword, Preface, and Afterword (\* indicates Peer-Reviewed)**

- Joppa, L.N., Boyd, J.W., Duke, C.S., Hampton, S., Jackson, S.T., Jacobs, K.L., .... & Shogren, J.F. (2016). Government: Plan for ecosystem services. *Science* 351(6277), 1037. \*
- Sayre, N.F., Kelty, R., Simmons, M., Clayton, S., Kassam, K-A., Pickett, S.T.A., & Chapin, F.S. (2013). Invitation to Earth stewardship [Guest editorial]. *Frontiers in Ecology and Environment*, 11(7), 339. <https://doi.org/10.1890/1540-9295-11.7.339>\*



- Kassam, K-A. (2011). Much is expected from those to whom much is given [Preface]. In G. Melnyk & C.M. Sutherland, *The art of university teaching* (pp. 7-10). Calgary, AB: Detselig.
- Kassam, K-A. (2002). Preface. In F.R. McDonald, *Ancestral portraits: The colour of my people* (pp. viii-ix). Calgary, AB: University of Calgary Press.
- Kassam, K-A. (2002). Afterword. In G. Melnyk, K-A. Kassam, & L. Perras (Eds.), *Canada and September 11: Impact and Response* (p. 229). Calgary, AB: Detselig.

### **Book Reviews**

- Kassam, K-A. (2014). [Review of the book *Aleut Identities*, by K. L. Reedy-Maschner]. *Sibirica*, 13(3), 93–108.
- Kassam, K-A. (2011). [Review of the book *Power struggles: Hydro development and First Nations in Manitoba and Quebec*, by T. Martin and S.M. Hoffman (Eds)]. *American Indian Culture and Research Journal*, 35(2), 232-235.
- Kassam, K-A. (2007). [Review of the book *The Dynamics of “Real Federalism” Law, Economic Development, and Indigenous Communities in Russia and Canada*, by P.H. Solomon, Jr. (Ed)]. *Canadian Slavonic Papers*, 49(3-4), 391-392.
- Kassam, K-A. (2004). [Review of the book *Knowledge and Gender: Local Development in India’s Jharkhand*, by S. Jewitt]. *Gender and Society*, 18(2), 259-260.
- Kassam, K-A. (2002) [Review of the book *Thunder on the tundra: Inuit Qaujimajatuqangit of the Bathurst Caribou*, by N. Thorpe, N. Hakongak, S. Eyegetok & the Kitikmeot Elders]. *Arctic*, 55(4), 395-396. <https://doi.org/10.14430/arctic739>
- Kassam, K-A. (2001). [Review of the book *Inuit Whaling and Sustainability*, by M. Freeman, I. Egede, L. Bogoslovskayas, I. Krupnik, R. Caulfield, & M. Stevenson]. *Arctic*, 54(3), 345-346. <https://doi.org/10.14430/arctic818>
- Kassam, K-A. (1998) [Review of the book *Northern people, southern states: Maintaining ethnicities in the circumpolar world*, by Robert Wheelersburg (Ed.)]. *Arctic*, 51(1), 66-67. <https://doi.org/10.14430/arctic1126>
- Kassam, K-A. (1997) [Review of the book *Freeze Frame: Alaska Eskimos in the Movies*, by Ann Fienup-Riordan]. *Arctic* 50(1), 77-78. <https://doi.org/10.14430/arctic1130>
- Kassam, K-A. (1996). [Review of the book *Shadows of the Pomegranate Tree*, by Tariq Ali]. *Islamica*, 2(3).

### **Posters**

- Kassam, K-A., Ruelle, M.L., & Haag, I. (2018, December). Engaging change: Using seasonal calendars to anticipate climate change in the Pamir Mountains. Poster session presented at the Fall Meeting of the American Geophysical Union, Washington, D.C.
- Haag, I., Kassam, K-A., & Ruelle, M.L. (2018, December). Large-scale climate data meets local reality: Investigating climate change in the Pamir Mountains through diverse spatial and methodological lenses. Poster session presented at the Fall Meeting of the American Geophysical Union, Washington, DC.
- Kassam, K-A. (2016, December). Using traditional calendars to adapt to climate change. Poster presented to the Thriving Earth Exchange Workshop at the Fall Meeting of the American Geophysical Union, San Francisco, CA.
- Kassam, K-A., Chorover, T., Francis, A., Law, T., Ruelle, M., & Scheimreif, K. (2016, October). Ecological calendars to anticipate climate change. Poster presented at the Atkinson Center

for a Sustainable Future Poster/Pitch Competition, Ithaca, New York. Received \$1000 Award.

Lassoie, J.P., Herring, R.J., & Kassam, K-A. (2013, January). Bridging learners with practitioners: Interdisciplinary experiential learning in conservation science using Conservation Bridge. [Poster]. In *Proceedings for the 2013 NSF/AAAS TUES Principal Investigators Conference: Transforming Undergraduate Education in STEM (TUES): Building a Community to Transform Undergraduate STEM Education*, Washington, DC. (pp.32-33).

### **Policy Documents**

Kassam, K-A. (2014). *Independent assessment: Mountains Societies Research Institute*. Bishkek, Kyrgyz Republic: University of Central Asia. (42 pp.).

Kassam, K-A. (2014). *Earth and Environmental Sciences undergraduate integrative major: Concept paper*. Bishkek, Kyrgyz Republic: University of Central Asia. (143 pp.).

Kassam, K-A. (2006). *Strategic level social impact assessment of Alaska-Canada Rail Link (ACRL)*. Calgary, AB: Macleod Institute for Environmental Analysis, University of Calgary.

Kassam, K-A. (1995). *A strategic planning guide for cancer control programmes of the World Health Organization*. Calgary, AB: Arctic Institute of North America.

Kassam, K-A., and Robinson, M.P. (1994). *The Blood Tribe economic development strategic plan and road map*. Calgary, AB: Arctic Institute of North America.

Kassam, K-A. (1994). *Breaking the barriers: A background paper for the Sahtu Education Symposium, Norman Wells, NWT, March 1-3, 1994*. Calgary, AB: Arctic Institute of North America.

Robinson, M. & Kassam, K-A. (1994). *Gwich'in financial road map developed by the delegates at the Gwich'in Financial Roundtable*. Calgary, AB: Arctic Institute of North America.

Kassam, K-A. 1991. *Economic conditions of the Syrian Jamat*. The Ismaili Council of Syria.

Kassam, K-A. 1989. *Statistical/economic profile of Stettler, Alberta*. Alberta Ministry of Economic Development and Trade.

Kassam, K-A. 1989. *Preliminary impact analysis of OSLO oil sands development*. Alberta Ministry of Economic Development and Trade.

Kassam, K-A. 1988. *The manufacturing sector in Alberta: A statistical analysis*. Alberta Ministry of Economic Development and Trade.

Kassam, K-A. 1988. *Statistical/economic profile of Medicine Hat, Alberta*. Alberta Ministry of Economic Development and Trade.

Kassam, K-A. 1986. *A pilot study on the possibility of private interest in the marketing of apricots in the northern areas of Pakistan*. The Aga Khan Rural Support Programme, Pakistan.

Kassam, K-A. 1985. *In the shadow of the Karakoram: A case study of five villages in Hunza and Gilgit*. The Aga Khan Rural Support Programme, Pakistan.

### **Reviewer for Journals and Presses**

*Action Research Journal; Agriculture and Human Values; Arctic; Canadian Journal of Communication; Canadian Journal of Education; Canadian Slavonic Papers; Current Anthropology; Ecology and Society; Douglas & McIntyre (Harbour Publishing); Gender and Society; Human Ecology; International Journal of Diversity in Organizations, Communities and Nations; Journal of Natural Resources Policy Research; Polar Record; University of Calgary Press; University of Arizona Press.*

## Academic Conference, Seminar, and Workshop Presentations

Once You Know, You Become Responsible, Commencement Address to 2023 Graduates of the American University of Central Asia on June 3, 2023, Bishkek, Kyrgyzstan.

<https://www.youtube.com/watch?v=tB-JI9NhF88&t=5361s>

Struggle, Sorrow and Hope, Speaker at the Soup and Hope Lecture Series held at Sage Chapel Bishkek, Kyrgyzstan, Cornell University, on March 23, 2023.

[https://vod.video.cornell.edu/media/Soup+&+Hope+-+Karim-Aly+S.+Kassam/1\\_qxzdpfq](https://vod.video.cornell.edu/media/Soup+&+Hope+-+Karim-Aly+S.+Kassam/1_qxzdpfq).

A Methodology of Hope for the Climate Crises: The Role of Ecological Calendars, Seminar at the American University of Central Asia, December 16, 2022, Bishkek, Kyrgyzstan.

[https://www.auca.kg/en/auca\\_news/5410/](https://www.auca.kg/en/auca_news/5410/).

A Methodology of Hope for the Climate Crises: The Role of Ecological Calendars, New York Society for Ethical Culture, October 9, 2022, New York City.

[https://www.youtube.com/watch?v=VrCh\\_iwR2Wo&t=2s](https://www.youtube.com/watch?v=VrCh_iwR2Wo&t=2s)

Peacebuilding, Climate Change, and Migration Workshop, co-organized with Dr. Rebecca Slayton an international virtual workshop across 13 time zones, with 6 prominent scholars presenting papers and 7 discussants to conceptualize and chart future research on socio-environmental conception of positive peace in poorly understood regions of the world with significant migration flows and vulnerability to climate change, March 22 and 24, 2022, Cornell University.

Rhythms of the Land: Indigenous Knowledge, Science, and Thriving Together in a Changing Climate, organized an inclusive and innovative international Conference bringing together communities, scholars, and policymakers during the pandemic, securing their US visas and vaccines, and returned them home safely. Presented our research findings on the ECCAP Project from Indigenous and rural communities in the Pamir Mountains of Afghanistan, Kyrgyzstan, Tajikistan, as well as the Standing Rock Sioux Nation and Oneida Lake Watershed in the United States of America. Worked for 24 months with a team of curators to produce two exhibitions and a dance performance: (1) *Art and Environmental Struggle* at the Herbert F. Johnson Museum of Art featuring 20 prominent indigenous artists; (2) *Ecological Calendars: Finding Hope in the Face of Climate Change* at the Botanic Gardens inspired by our research; and (3) *Blood, Water, Earth*, performance by Santee Smith at the Schwartz Center for the Performing Arts, October 11-13, 2021, Cornell University (<https://blogs.cornell.edu/karim-aly--kassam/rhythms-of-the-land/>).

The Ecology of Time: Anthropogenic Climate Change and the Role of Ecological Calendars, Keynote, The Material Life of Time, second international conference of the Temporal Belongings Network, March 16, 2021, on Zoom.

Why Difference Matters: A Methodology of Hope for Climate Change Impacts, CivicSpark Seminar for Climate Action Fellows, February 22, 2021, on Zoom.

A Methodology of Hope to the Challenge of Climate Change: Role of Ecological Calendars, Interdisciplinary Conservation Seminar, Human Environment Systems, December 2, 2020, Boise State University, on Zoom.

Indigenous Ways of Knowing and Transdisciplinary Research: Why Difference Matters, QuIRI Seminar, October 23, 2020, Ithaca, New York, on Zoom.

A Methodology of Hope for Anthropogenic Climate Change: Role of Ecological Calendars, Alternative Talks Series, Epsilon Eta, October 20, 2020, Ithaca, New York on Zoom.

Speaking Truth to Power – Wicked Problems, Indigenous Knowledge, and Transdisciplinary Research, Plenary Keynote, Annual Meeting of the Society for Range Management, February 19, 2020, Denver, Colorado.

A Methodology of Hope to the Challenge of Climate Change: Role of Ecological Calendars, Department of Natural Resources Seminar Series, January 21, 2020, Ithaca, New York.

Why should we be concerned about climate change in the Pamir Mountains? Keynote at Mountains of Tajikistan – Nature and People at the Forefront of Climate Change Symposium, Iwalewahaus, January 10, 2020, Bayreuth (Germany).

Speaking Truth to Power: The Role of the Public Intellectual. Presentation to the Africana Cluster Faculty at Bayreuth University (Germany), January 9, 2020.

Just Action by Scientists and the Impact of Climate Change on Indigenous Communities. Invited Panelist, People Impacted by Climate Change, Centenary Meeting of the American Geophysical Union, December 10, 2019, San Francisco.

Biocultural diversity in the third millennium: Why does it matter for teachers? (Keynote address) Cultural Sustainability Conference, International Studies Summer Institute, Syracuse University, July 1, 2019.

Climate change and the imperative to build anticipatory capacity at the local level: The role of ecological calendars. Seminar to Global Affairs Canada, Headquarters, Government of Canada, April 5, 2019, Ottawa (Canada).

Evidence of pluralism in achieving food security: Why difference matters? Seminar to Afghanistan Program, Global Affairs Canada, Head Quarters, Government of Canada, April 5, 2019, Ottawa (Canada).

Science diplomacy: Transcending academic and national boundaries and advancing scientific discovery. Co-organized and helped conduct a four-hour workshop at the Annual Meeting of the America Geophysical Union, December 11, 2018, Washington DC.

Significant best practices and lessons learned in transdisciplinary research. Organized and presented at Town Hall on International Transdisciplinary Research Approaches for Sustainable Development, Annual Meeting of the America Geophysical Union, December 10, 2018, Washington, DC.

Why does biocultural diversity matter? Biocultural Conversations, Cornell Botanical Gardens, November 29, 2018, Ithaca, New York.

Why the 4H curriculum? Ethic of stewardship and youth, Keynote address to the New York State Association of Cornell Cooperative Extension 4H Educator's Conference, October 23, 2018, Hamilton, New York.

Speaking truth to power with grace and humility: Scholarly diplomacy in the twenty-first century, Institute of Diplomacy, Ministry of Foreign Affairs of the Republic of Afghanistan, June 26, 2018, Kabul, Afghanistan.

The role of Afghan youth in stewarding the planet. Live presentation that was televised in “real time” to the universities of Bamyan, Faizabad, and Herat from the US Embassy in Kabul, Lincoln Learning Centre Broadcast, Embassy of the United States of America in Afghanistan, June 26th, 2018, Kabul, Afghanistan.

Climate change impacts at the local level: Need for anticipatory capacity, American University of Afghanistan, June 26, 2018, Kabul, Afghanistan.

The role of diversity and pluralism in achieving food security: The untold story of Afghanistan – Presidential Palace of the Republic of Afghanistan, Symposium on Climate Change and Food Security, June 25, 2018, Kabul, Afghanistan.



Building adaptive capacity for climate change: The potential of ecological calendars in Afghanistan – Presidential Palace of the Republic of Afghanistan, Symposium on Climate Change and Food Security, June 25, 2018, Kabul, Afghanistan.

Addressing climate change through ecological calendars and peaceful pluralism: Lessons from Afghanistan and Central Asia – Embassy of Canada in Afghanistan, June 24, 2018, Kabul, Afghanistan.

Anticipatory capacity for climate change: Ecological calendars, Geographisches Kolloquium [University wide Colloquium in Geography], Part of Activities of Senior Research Fellowship at University of Bayreuth, June 6, 2018, Bayreuth, Germany.

Biocultural diversity and its significance for food security: Ecology of pluralism, Graduate Seminar: Geographies of Environment & Development, Part of Activities of Senior Research Fellowship at University of Bayreuth, May 30, 2018, Bayreuth, Germany.

Anticipation and response to climatic and environmental change by local communities, co-organized three 90-minute panels at the Annual Meeting of American Association of Geographers (AAG) with 15 speakers, April 10, 2018, New Orleans, Louisiana (USA).

Anthropogenic climate change, anxiety, and the sacred: The role of ecological calendars, GSA Symposium – Department of Natural Resources, January 19, 2018, Cornell University, Ithaca, New York.

Transdisciplinary processes and community partnerships to anticipate climate change, Science to action: Communities solve problems with science and scientists, American Geophysical Union – Fall Meeting, December 14, 2017, New Orleans, Louisiana.

Imperative for international research: To whom much is given much is expected, Scientific Freedom & International Movement Policy Forum, American Geophysical Union – Fall Meeting, December 13, 2017, New Orleans, Louisiana.

Co-generating knowledge to build anticipatory capacity for climatic change at the local level: The role of ecological calendars, GIZ Country Headquarters, June 14, 2017, Bishkek, Kyrgyzstan.

Speaking truth to power with humility and grace, Vanguard of the Knowledge Society ISTAR 2017 National Conference, May 20, 2017, Vancouver, British Columbia.

Exploring the dynamic cultural, ecological, and indigenous knowledge dimensions of food sovereignty, Agroecology, Food, Justice & Wellbeing Conference, May 13th, 2017, Ithaca, New York.

Co-generating knowledge to build anticipatory capacity for climatic change at the local level: The role of ecological calendars, Forest & Rangeland Stewardship Seminar, May 4th, 2017, Colorado State University, Fort Collins, Colorado

Ecological time, climate change, and the sacred, Mountains as Sacred Landscapes Conference, Society for Religion, Nature and Culture, April 30th, 2017, New School, New York, New York.

Engaging environmental education through teen experiential learning, County Campus Collaboration on Ecology and Education, STEM Retreat Cornell Cooperative Extension, April 10, 2017, Cornell University, Ithaca, New York.

Developing a pedagogy of hope: Speaking truth to power with grace and humility, March 31, 2017, Chalmers University, Goteborg, Sweden.

A narrative for medical professionals: Action research, ecological calendars, and climate change, March 30, 2017, Chalmers University, Goteborg, Sweden.

Building anticipatory capacity for climate change: Ecological calendars, Press Panel, American Geophysical Union – Fall Meeting, December 14, 2016, San Francisco, California.

Why difference matters. Opening remarks, Planning study abroad programs to maximize learning and inclusion, Center for Teaching Excellence, September 30, 2016, Ithaca, New York.

Chaired Panel on Indigenous Movements, An International and Interdisciplinary Conference on *Development in Question*, The 5th annual conference of the Development Sociology Section of the ASA Organized by an International Steering Committee and hosted by the Department of Development Sociology at Cornell University, October 7, 2016, Ithaca, New York.

Chaired Special Session: Next steps for achieving food, health, and energy sovereignty: A collaborative effort (The Kassam Research Group at Cornell was the session organizer and presenters), 15th Congress of the International Society of Ethnobiology, Makerere University, August 2, 2016, Kampala, Uganda.

Co-Chaired Session on Future of Agrobiodiversity in Ethiopia, 15th Congress of the International Society of Ethnobiology, Makerere University, August 2, 2016, Kampala Uganda.

The scholar in the Anthropocene, Research Seminar at Department of Environmental Science, Kabale University, July 27, 2016, Kabale, Uganda.

Mentor at International Society of Ethnobiology's 4<sup>th</sup> Pre-congress student workshop for emerging ethnobiologists, July 26-29, 2016, Entusi, Lake Bunyonyi, Uganda.

Building anticipatory capacity for climate change: Ecological calendars, Research Seminar at Xinjiang Institute of Ecology & Geography, Chinese Academy of Sciences, July 1, 2016, Urumqi, China.

Ecological calendars, rhythms of the land, and anticipating climate change, Research Seminar at Center for Mountain Ecosystem Studies, June 29, 2016, Kunming, China.

Advancing theory and practice in action research: Ways of knowing, Research Seminar at Chalmers University of Technology, Department of Technology Management and Economics, May 11, 2016, Gothenburg, Sweden.

Groundings in Action Research: The role of *phronesis* and diversity, Research Seminar at Chalmers University of Technology, Department of Technology Management and Economics, May 10, 2016, Gothenburg, Sweden.

Building anticipatory capacity for climate change and indigenous ecological calendars: A methodology of hope? Advancing Dialogue and Practice in Indigenous Research Methods Conference, April 30, 2016, Ithaca, New York.

Public intellectuals: Speaking truth to power with humility and grace, Atkinson Center for a Sustainable Future Research Fellow Lunch Talk, February 5, 2016, Ithaca, New York.

Evidence of pluralism and mutual support in the mountains of Afghanistan: Why difference matters, Embassy of Canada, January 6, 2016, Kabul, Afghanistan.

Building anticipatory capacity for climate change, Embassy of Canada, January 5, 2016, Kabul, Afghanistan.

Speaking truth to power: The challenge for young development professionals, South Asia Development Forum, September 9, 2015, Ithaca, New York.

Panel Key note: Role of indigenous knowledge systems in anticipating change: The ecology of time Conference on Our Common Future under Climate Change, Session: Building resilience to climate and weather extremes, UNESCO, July 8, 2015, Paris, France.

Anticipating climate change: A transdisciplinary challenge, Mountains as Sentinels Network Workshop on Transdisciplinary Approaches to Mountain Sustainability, June 30, 2015, Serre Chevalier, France.

Building anticipatory capacity for climate change and indigenous ecological calendars: A methodology of hope? Indigenous Methodologies and the History of Art Conference, April 30, 2015, Africana Studies and Research Center, Cornell University, Ithaca, NY.

Rhythms of land and the ecology of time: Anticipating change, Institute for the Social Sciences Contested Global Landscapes Theme Project Affiliates Conference and Capstone Lecture, April 9, 2015, Ithaca, New York.

Seeking empirical evidence of food sovereignty, Presentation for collaborative transdisciplinary research Topical Lunch of the Atkinson Center for a Sustainable Future, Cornell University, February 17, 2015, Ithaca, New York.

How do we teach students to speak truth to power thoughtfully and with humility and grace? Engendering a New Generation of Public Intellectuals, Engaged Cornell Speakers Series, Cornell Public Service Center, February 6, 2015, Ithaca, New York.

Contribution of science to indigenous ecological knowledge for climate change adaptation at the village level, Presentation for collaborative transdisciplinary research Topical Lunch of the Atkinson Center for a Sustainable Future, Cornell University, January 20, 2015, Ithaca, New York.

Building Anticipatory Capacity for Climate Change at the Village, Thriving Earth Exchange, American Geophysical Union, December 18, 2014, San Francisco, USA.

Why build? The role of the Earth and Environmental Science major, Keynote Address at the CFD Workshop, University of Central Asia, July 31, 2014, Naryn, Kyrgyz Republic.

How can we anticipate climate change in mountain communities? UCA Public Lecture, University of Central Asia, June 26, 2014, Bishkek, Kyrgyz Republic.

Visioning food, health and energy sovereignty: Ways forward for research and practice, Workshop of the 14<sup>th</sup> Congress of the International Society of Ethnobiology, June 4, 2014, Bumthang, Bhutan (Kassam Research Group at Cornell was the Workshop organizer and presenters)

Wicked problems, diversity, and interdisciplinarity: The case of building anticipatory capacity for climate change, Triple C Seminar, University of Calgary, March 13, 2014, Calgary, Alberta, Canada.

Process and method of learning how: A case study of climate change in the Arctic, University of Calgary, March 11, 2014, Calgary, Alberta, Canada.

Socio-cultural and environmental change in the Pamir Mountains and the role of indigenous knowledge, University of Calgary, March 6, 2014, Calgary, Alberta, Canada.

Does Cain have to kill Abel? Challenging the metanarratives of conflict among indigenous peoples in Afghanistan, University of Calgary, February 12, 2014, Calgary, Alberta, Canada.

Oil sands stewardship, Presentation at the Environmental Panel of the Energy and the Oil Sands: Aboriginal Perspective Conference sponsored by the Fort McKay First Nations, January 24, 2014, Fort McMurray, Alberta, Canada (presenter and panel moderator).

An opportunity to contribute: Earth and Environmental Science major, University of Alberta, January 17, 2014, Edmonton, Alberta, Canada.

Pluralistic indigenous knowledge systems in sustaining food sovereignty, American Anthropological Association, November 23, 2013, Chicago, Illinois.

Building anticipatory capacity for climate change: An interdisciplinary challenge, South Asia Program Seminar Series, Cornell University, September 30, 2013, Ithaca, New York.

The challenge of climate change and the role of local knowledge in adaptation and food sovereignty, Cornell Biological Field Station, June 26, 2013 Shackelton Research Station, Oneida Lake, New York.

The rules of hospitality, Akwe:kon students, Cornell University, March 28, 2013, Ithaca, New York.

The human ecology of climate change: An interdisciplinary challenge of indigenous knowledge and science, College of Natural Sciences, University of Addis Ababa, March 22, 2013, Addis Ababa, Ethiopia.

Socio-cultural and environmental change in the Pamir Mountains, Agriculture & Climate Change in Debarq: Knowledge Exchange between Farmers, Scientists, and Local Government, March 20, 2013, Debarq Ethiopia.

Indigenous knowledge, climate change and anticipatory capacity: An interdisciplinary challenge, The Applied Biodiversity National Science Foundation – Integrative Graduate Education and Research Traineeship, Texas A&M University, February 12, 2013, College Station, Texas.

Knowledge as hope for the challenges of the 21<sup>st</sup> century, The Academy of Sciences of the Republic of Tajikistan, December 12, 2012. Dushanbe, Tajikistan.

Nurturing knowledge: Role of medicinal plants, Faculty Fellow Presentation, Akwe:kon, Cornell University, November 2, 2012. Ithaca, New York

What is the relevance of mazars (sacred sites) in the twenty-first century? University of Central Asia, Ismaili Center, July 29, 2012. Dushanbe, Tajikistan.

Living knowledge: Medicinal plants in the Pamir Mountains, National Library of Tajikistan, Organized by the Embassy of the United States of America, July 19, 2012. Dushanbe, Tajikistan.

Critical gender role of women under conditions of chronic sociocultural and ecological stress: Women, sustainable development and food sovereignty in a changing world, Cornell University Law School, March 30, 2012. Ithaca, New York.

To whom much is given, much is expected. Presentation to undergraduate students in the Office of Academic Diversity Initiatives, Cornell University, March 27, 2012. Ithaca, New York.

The spirit of conservation and the idolatry of management: Developing ecologically based conservation targets under global change, The Second Emerging Issues Conference of the Ecological Society of America, February 28, 2012. National Conservation Training Center Shepherdstown, West Virginia.

Challenging metanarratives of conflict: Pluralism and the ecology of survival in the Pamir Mountains of Afghanistan – South Asia Center Seminar, Syracuse University, February 15, 2012. Syracuse, New York.

Engendering a new generation of public intellectuals: Speaking truth to power. Department of Natural Resources Graduate Student Symposium: Does Interdisciplinarity Matter? Cornell University, January 19, 2012. Ithaca, New York.

Does Cain have to kill Abel? Metanarratives of conflict and pluralism among indigenous peoples. Proseminar in American Indian Studies, Cornell University, November 30, 2011. Ithaca, New York.

Engendering public intellectuals through applied research and teaching pedagogy. The Transformation of Public Intellectuals and Canadian Democracy Workshop sponsored by the Social Sciences and Humanities Research Council (SSHRC) of Canada, University of Calgary, October 5, 2011. Calgary, Alberta.

Knowledge as sovereignty. Seminar to the Aga Khan Humanities Project, University of Central Asia, September 28, 2011. Dushanbe, Tajikistan.

Socio-cultural and ecological impacts of climate change in mountain societies. Public Seminar to the Organization for Security and Cooperation in Europe, September 27, 2011. Dushanbe, Tajikistan.

The role of medicinal plants in food and health sovereignty: Findings from the Tajik and Afghan Pamirs. Seminar Presentation to the Academy of Sciences of the Republic of Tajikistan, September 26, 2011. Dushanbe, Tajikistan.

Food sovereignty: Potential for Gorno-Badakhshan Autonomous Oblast (GBAO). Policy input presentation and meeting organized by the Governor of GBAO to develop a five-year research plan for the Kassam research group at Cornell University with participation from civil society, conservation, and academic institutions in the Pamir Mountains, September 19, 2011. Khorog, Tajikistan.

The human ecology of watersheds: People's knowledge and participation in management. Moderator and seminar presenter, International Sustainable Watersheds Workshop (Beijing Normal University), August 3, 2011. Beijing, China.

Water in South Asia: Challenges in a changing environment symposium. South Asia Program (Cornell University), April 8, 2011. Moderator and Discussant – Climate Change and Water. Ithaca, New York.

Why intellectual pluralism? The case of the ecology of time. Seminar Presentation, Department of Natural Resources (Cornell University), March 1, 2011. Ithaca, New York.

Ecology of time: The calendar of the human body in the Pamir Mountains. Panel Presentation, Middle East Studies Association, November 20, 2010. San Diego, California.

Pluralism and the ecology of survival: Cases from the Pamir Mountains of Afghanistan. Seminar Presentation, Reppy Institute for Peace Studies (Cornell University), November 18, 2010. Ithaca, New York.

Indigenous knowledge of medicinal plant use and health sovereignty: Findings from the Tajik and Afghan Pamirs. Seminar Presentation, International Agriculture and Rural Development (Cornell University), October 13, 2010. Ithaca, New York.

How can a dynamic concept of pluralism inform adaptation and survival under conditions of dramatic socio-cultural and environmental change? Seminar Presentation, University of Central Asia, Learning Event, July 20, 2010. Khorog, Tajikistan.

Pluralism in Crisis Workshop (Cornell University, Cambridge University, and University of Glasgow), Co-chair and Presenter, 24-25 May, 23-24 June, and 27-29 July, 2010. Institute of Advanced Studies, Glasgow, Scotland.

Indigenous knowledge of medicinal plant use - indicator of health and food security: Preliminary findings from the Tajik and Afghan Pamirs. Panel Presentation, International Congress of Ethnobiology, May 14, 2010. Tofino, British Columbia.

Being relevant: Role of young scholars in the former Soviet Republics. Panel presentation, Open Society Institute, Spring Conference, March 8, 2010. New York, New York.

What are the applied research issues in the Pamir Mountains of Central Asia? (Keynote address) Open Society Institute, Spring Conference, March 8, 2010. New York, New York.

Socio-cultural and ecological change in the Pamir Mountains of Afghanistan and Tajikistan. Seminar Presentation, South Asia Program (Cornell University), February 15, 2010. Ithaca, New York.

Human ecology of vulnerability and adaptation: Case studies of climate change from high latitudes and altitudes. Panel Presentation, Initiative for Climate Adaptation Research and Understanding through the Social Sciences (ICARUS) Workshop on Climate Vulnerability

and Adaptation: Theory and Cases Workshop (The Beckman Institute, University of Illinois), February 11, 2010. Urbana, Illinois.

Poverty traps and biocultural diversity in Central Asia: Cases from the roof of the world. Panel Presentation, Biodiversity Conservation and Poverty Traps Workshop (Cornell University), February 4, 2010. Ithaca, New York.

Viewing socio-cultural and environmental change through the prism of indigenous human ecology. Keynote Address, Climate-Glaciers-Society Conference, Lamont-Doherty Earth Observatory, Columbia University, November 12, 2009. New York, New York.

Resilience and adaptation of human ecological systems in times of dramatic change. Panel Presentation, International Workshop in Conservation and Sustainable Development (Beijing Normal University), May 27, 2009. Beijing, China.

What can we learn from the biological, physical, and social sciences as well as humanities in reframing and understanding pluralism in the context of dramatic socio-cultural and environmental change? (Chair), Beyond Diversity: Re-situating Pluralism Workshop (Cornell University), May 19-21, 2009. Shackleton Point Research Station, New York.

Resilience, pluralism, and practical wisdom in the Pamir: Interplay of the ecological and cultural. Panel Presentation, Association of American Geographers, March 24, 2009. Las Vegas, Nevada.

21<sup>st</sup> century changes and challenges: Opportunities for native students to contribute. Keynote address. All-Ivy Native Council Summit, Cornell University, November 15, 2008. Ithaca, New York.

Pluralism in ways of knowing: A strategy for survival. Keynote address, Conversations on the land: Indigenous and scientific principles for sustainable communities, College of Environmental Science and Forestry, State University of New York, November 7, 2008. Syracuse, New York.

Conservation as if nature and culture matter. Presentation at Symposium on Wildlife Conservation at Cornell: From A to Z (the Arctic to Zambia), October 17, 2008. Ithaca, New York.

Resilience and food Security: Research findings. Seminar Presentation, University of Central Asia, Learning Event, July 21, 2008. Khorog, Tajikistan.

Diversity - Where nature and culture matter: Indigenous knowledge and bio-cultural diversity. Seminar Presentation, University of Central Asia, Learning Event, July 18, 2008. Khorog, Tajikistan.

Community service learning: The link between freedom and responsibility. Seminar Presentation, University of Central Asia, Learning Event, July 10, 2008. Khorog, Tajikistan.

Biophilia and spring (Keynote address) Akwe:kon: Spring Planting Festival, Cornell University, May 4, 2008, Ithaca, New York.

Understanding change through indigenous knowledge: Findings from the Afghan and Tajik Pamir. Panel Presentation, Association of American Geographers, April 16, 2008. Tucson, Arizona.

Biocultural diversity, natural resources, and indigenous peoples. Seminar Presentation, College of Environmental Science and Forestry, State University of New York, March 3, 2008. Syracuse, New York.

How do we know what we know? A collaborative response from a biological and social scientist (with Patrick Sullivan). Seminar Presentation, Department of Natural Resources, February 26, 2008. Ithaca, New York.

The role of the student as a scholar citizen. Ithaca, New York. Keynote speaker, Akwe:kon: Visiting Scholar Seminar of the Native American Students Association, Cornell University, November 20, 2007.

Knowledge and change: Biocultural diversity in the Pamir. Seminar Presentation, Cornell Institute for Food Agriculture and Development Seminar: Agroecological Perspectives for Sustainable Development, November 14, 2007. Ithaca, New York.

Conservation as if nature and culture matter: Indigenous knowledge and bio-cultural diversity. Seminar Presentation, American Indian Program (AIP) Colloquium, Cornell University, October 31, 2007. Ithaca, New York.

Three trends affecting applied scholarship in natural resources. Panel Presentation, Department of Natural Resources Strategic Planning Seminar Panel, Cornell University, October 2, 2007. Ithaca, New York.

Being relevant: Possibilities for a university in the Pamir. Seminar Presentation, University of Central Asia, Learning Event, September 11, 2007. Khorog, Tajikistan.

Change and human ecology in the Pamir. Plenary Presentation, German Agency for Technical Cooperation (GTZ) Workshop on Best Practices and Sustainable Land and Resource Management, August 29, 2007. Khorog, Tajikistan.

Interdisciplinarity, indigenous knowledge, and biocultural diversity. Seminar Presentation, Special Seminar, International Management of Resources and Environment Program, Freiberg University, December 7, 2006. Freiberg, Germany.

Biocultural diversity in the Pamir. Seminar Presentation, Special Seminar, International Management of Resources and Environment Program, Freiberg University, December 8, 2006. Freiberg, Germany.

Conservation as if nature and culture matter. Keynote address, The Nature Conservancy Science in Practice Conference, November 30, 2006. Tucson, Arizona.

Indigenous knowledge and climate change: Opportunities for scientists to contribute. Keynote address, Special Seminar sponsored by the Academy of Sciences of the Republic of Tajikistan, Physics Institute, September 4, 2006. Dushanbe, Tajikistan.

Preliminary research findings: Bio-cultural diversity in Badakhshan Afghanistan and Tajikistan. Seminar sponsored by the University of Central Asia. University of Central Asia, Learning Event, September 1, 2006. Khorog, Tajikistan.

A human ecology approach to alpine lands of Northwest Yunnan. Keynote address. The Centre for Biodiversity and Indigenous Knowledge (CBIK) and The Nature Conservancy, June 14, 2004. Kunming, China.

The weather is going under. Seminar Presentation, Department of Natural Resources Seminar, October 29, 2003. Ithaca, New York.

Mapping indigenous human ecology: Experiences and outcomes in the Arctic and Sub-Arctic. Seminar Presentation, Department of Natural Resources, February 20, 2003. Ithaca, New York.

Canada and September 11<sup>th</sup>. Seminar Presentation, Department of Natural Resources, Cornell University, February 19, 2003. Ithaca, New York.

Globalization, natural resources and the North: Community based research. Seminar Presentation, Faculté Saint-Jean, University of Alberta, August 28, 2002. Edmonton, Alberta.

Indigenous communities: Opportunities for youth to contribute. Keynote Presentation. World University Services Canada Symposium on Indigenous Perspectives for a Sustainable Future, February 9, 2002. Calgary, Alberta.

Aftermath and consequences of September 11<sup>th</sup>. Panel Presentation, International Week, University of Calgary, February 7, 2002. Calgary, Alberta

Natural and cultural heritage. Plenary Presenter, Conference of the Chinese Academy of Social Sciences and the United Nations, December 4 - 6, 2001. (500 Chinese participants from government, cultural, and academic institutions). Beijing, China.

Canada in a circumpolar context. Seminar Presentation, Workshop of American Professors of Canadian Studies, University of Calgary, July 12, 2001. Calgary, Alberta.

Human ecology research and art in the circumpolar Arctic. Keynote address. Keynote Speaker, Inuit Artists Symposium - Indigenous artists from Cape Dorset. University of Calgary, July 11, 2001. Calgary, Alberta.

The empowerment of women: The role of indigenous women in forestry development. Keynote Presentations. India's development challenges: Recent research findings and their implications. New Delhi, India, April 23 - 26, 2001, and Ottawa, Canada, May 29 - 31, 2001. More than 500 scholars, NGO representatives and government policy makers in Canada and India attended the conference.

Opportunities to make a meaningful contribution in circumpolar communities: The case of the Sami in Russia. Keynote Presentation, Ties that Bind, International Week, University of Calgary, February 9, 2001. Calgary, Alberta.

The universal and the particular: A case for pluralism. Seminar Presentation, Religious Studies Group at Saint Mary's College, November 10, 1999. Calgary, Alberta.

Sami reindeer herders and *perestroika* in Russia's Far North. Seminar Presentation, Barrow Arctic Science Consortium, March 18, 1999. Barrow, Alaska.

A case study in participatory research: The Sami of Russia. Seminar Presentation, Anthropology Colloquium, University of Alaska, March 12, 1999. Fairbanks, Alaska.

Community participation, traditional knowledge and co-management: The Russian Sami experience. Panel Presentation, Conference on Community Development from the Inside Out, August 21, 1998. Calgary, Alberta.

### **Public Scholarship and Op-Ed Essays**

How Indigenous knowledge could factor into federal policy - especially on climate change. Interview Wisconsin Public Radio, December 12, 2022: <https://www.wpr.org/listen/2042201>.

White House elevates indigenous expertise to inform policy. Interview with *Politico's E&E News*, December 1, 2022 : <https://www.eenews.net/articles/white-house-elevates-indigenous-expertise-to-inform-policy/>.

Those we lost in Afghanistan did not die in vain. *The Hill*, September 5, 2021: <https://thehill.com/opinion/international/570728-those-we-lost-in-afghanistan-did-not-die-in-vain/>.

Anxiety, Climate Change, and the Sacred — Lessons from COVID-19. *Medium*, May 4, 2021: <https://medium.com/cornell-university/anxiety-climate-change-and-the-sacred-lessons-from-covid-19-c325143d03e0>.

Personhood: Rejecting the Notion of Race. *Medium*, April 15, 2021: <https://medium.com/cornell-university/personhood-rejecting-the-notion-of-race-f54e36a71b36>.

The greater *jihad* is climate change. *Khurshid Television Network* (Afghanistan's most popular TV network), June 24, 2018.



Impact of climate change on women and livelihoods. *ZAN TV (Women's television network)*, June 24, 2018.

Climate change and peaceful resolution of conflict. *Salam Watander (Afghanistan's most popular radio station)* June 24, 2018.

Seminars at the Canadian Embassy in Kabul, Afghanistan. *Khurshid Television Network*, January 6, 2016.

Radio interview on The Made of Clay Report with Eric Clay, WRFI, Watkins Glen, Ithaca, March 8, 2015 (60 minutes; <http://madeofclay.org/2015-2/>).

The role of pluralism in addressing climate change. Interview with Faizmir Hassan. *Badakhshan Television*, July 21, 2010. (36 Minutes).

Experiences of research in Badakhshan. Newspaper Interview with Alisher Junaidi. *POMIR Newspaper*, July 21, 2010.

Impacts of climate change in the Pamirs. Interview with Tohir Safarov *Radio Free Europe-OZODI (Tajikistan)*, July 14, 2010. (<http://www.ozodi.org/articleprintview/2099254.html>).

Applied research in the Pamirs of Tajikistan and Afghanistan, Seminar Presentation, American Corner (of the Embassy of USA), July 13, 2010. Khorog, Tajikistan.

Understanding terror and Canada's commitment in Afghanistan. Interview with Lisha Hassanali. *OMNI Television News*, May 21, 2010. Calgary, Alberta.

Understanding terror: Perspective for Canadians. Public book reading hosted by the Institute for Peace Studies and the University of Calgary Press, May 19, 2010. Escalus Room, MacEwan Hall, University of Calgary Campus. Calgary, Alberta.

Understanding terror and Canada's commitment in Afghanistan. Interview with Reg Hampton in Calgary, Alberta. *CTV News at Noon*, May 19, 2010.

What is Canada's role in Afghanistan? The Perspective from Applied Research. Keynote Presentation, Canadian Senate's Security Committee, May 9, 2007, and the Conference of Defence Associations Institute (CDAI), May 10, 2007. Ottawa, Canada.

Dinner and a movie: Three climate-change experts digest Al Gore's *An Inconvenient Truth*. Feature interview in *Alberta Oil Magazine* 2(3), September 2006, pp. 58-63.

Climate change adds to hardship in Bartang valley. Essay in the *Calgary Herald*, August 15, 2006 page A13 (1600 words).

A 'Stan whose people, culture remarkably similar to ours. Sunday Feature Essay in the *Calgary Herald*, August 6, 2006, page A10 (850 words).

Understanding bio-cultural diversity in Fort Saskatchewan, Alberta. Keynote Address to Shell Canada engineers and other employees at the Shell Oil refinery and Upgrader, February 26, 2006.

Press freedom can also be freedom to abuse. Essay in the *Calgary Herald*, February 17, 2006, page A29 (850 words).

Tolerance: Towards a pluralistic society, Building a pluralistic society, and Where do we go from here? Three keynote presentations, Spring Workshop of the Freemasons of Alberta, April 30 - May 1, 2004. Delta Lodge, Kananaskis, Alberta.

In search of the light. Sermon on the Theme of Spiritual Journeys. Wild Rose United Church, January 12, 2003. Calgary, Alberta.

To whom much is given much is expected: Pluralism from the perspective of a Canadian Muslim. Keynote address. Parliament and Senate, Room 200 West Block, June 9, 2002. Ottawa, Ontario.

The Abrahamic Tradition. Sermon, Pleasant Heights United Church, February 10, 2002. Calgary, Alberta.

On forgiveness. Interview by Leslie Gavel in *Canadian Living Magazine*, December 2002. Calgary, Alberta.

Radio, television and newspaper interviews on the book *Canada and September 11<sup>th</sup>: Impact and response*.

- “A” Channel Big Breakfast Show interview by Jeb Fink, September 11, 2002
- CFCN Television, Lunch Show interview by Sarika Segal (with George Melnyk), September 11, 2002
- Shaw Cable Television interview by David Will, Community News, September 13, 2002
- “A” Channel Television 6 O’clock News interview by Krista Platzer, August 30, 2002
- CBC Regional News interview by Allison Mayers, September 9, 2002
- CHQR Radio interview by David Rutherford, September 9, 2002
- Radio Canada TV (French Television CBC) interview by François Tremblay, September 5, 2002
- CBC Calgary Eyeopener interview by Jeff Collins (with Lynne Perras), August 29, 2002
- CBC National Radio One and Radio Two (with Lynne Perras), August 27, 2002
- *Edmonton Journal*, August 27, 2002 page B3
- *Calgary Herald*, August 28, 2002, page B6
- *Calgary Sun*, August 28, 2002, page 18
- *The Gazette*, University of Calgary, September 3, 2002, page 7

Understanding Islam: A consequence of September 11, 2001 (Each presentation was made at the invitation of the organization and geared to the specific audience while covering certain common themes)

- September 22, 2001, Explaining to grade 9 and 10 multi-ethnic Muslim students about the events of September 11 and responding to questions (200 students)
- September 22, 2001, Explaining to grade 11 and 12 multi-ethnic Muslim students about the events of September 11 and responding to questions (168 students)
- October 5, 2001, Ismaili Muslim Jamat Khana and Centre, Calgary (285 individuals)
- October 11, 2001, Elbow Drive Lutheran Church (16 individuals)
- October 13, 2001, South Jamat Khana (150 individuals)
- October 24, 2001, Society for Alternative Dispute Resolution (15 individuals)
- October 29, 2001, Deer Park United Church (40 individuals)
- November 5, 2001, United Church in the Town of Red Deer (119 individuals)
- November 9, 2001, Keeler Elementary School – Teachers’ Professional Development Day (30 individuals)
- November 17, 2001, Fort Edmonton, Freemasons Hall, Edmonton (69 individuals)
- November 21, 2001, Christ Church (Anglican), Calgary (78 individuals)
- November 23, 2001, Pleasant Heights United Church, Calgary (14 individuals)
- November 25, 2001, Ascension Lutheran Church, Calgary (9 individuals)
- November 25, 2001, Dialogue session Ismaili Muslim Jamat Khana and Centre, Calgary (500 individuals)
- December 17, 2001, Shell Canada Head Office, Calgary, Alberta – Employees (110 individuals)

An invitation to build a civilization: The metaphor of the Fatimid civilization. Keynote address, Ismaili Jamat, November 21, 1999. Toronto, Canada.

An ethical framework for building communities. Keynote address, Inter-Faith Calgary, October 20, 1999. Calgary, Alberta.

On giving advice on development?! Keynote address, O'Byrne Institute, April 16, 1998. Calgary, Alberta.

Globalization and education: A university model in the developing world. Keynote address, The Canadian Club of Calgary, March 19th, 1998. Calgary, Alberta.

Radio interview on the Women's Empowerment Project with Judy Aldous, CBC North, Yellowknife, June 17, 1999 (15 minutes).

Radio interview on Why is the Arctic important to the overall health of the earth? with Ken Vanlith, CFOS, Ontario, April 15, 1999 (15 minutes).

Radio interview on the Human Ecology Project and the role of indigenous communities with Earl Finkler, KBRW, Barrow, Alaska, March 24, 1999 (20 minutes).

Radio interview on the Russian Sami with Earl Finkler, KBRW, Barrow, Alaska, March 16, 1999 (10 minutes).

Radio interview on current conditions in the Russian Arctic for indigenous communities with John McWhorter (News Director), KUAC, Fairbanks, Alaska, March 11, 1999 (20 minutes).