

# **Mark Carey**

Professor of Environmental Studies and Geography  
Director, Environmental Studies Program  
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## **EDUCATION**

### **Ph.D., University of California, Davis, 2005**

Latin American and Environmental History  
Dissertation: "People and Glaciers in the Peruvian Andes: A History of Climate Change and Natural Disasters, 1941-1980"  
Dissertation Supervisor: Charles F. Walker

### **M.A., University of Montana, Missoula, 1998**

Latin American and Environmental History

### **B.A., State University of New York College at Potsdam, 1991, History**

## **PROFESSIONAL APPOINTMENTS**

Professor of Environmental Studies and Geography  
Joint appointment (60% Environmental Studies Program, 40% Geography Department), University of Oregon, 2021 – present

Director  
Environmental Studies Program, University of Oregon, 2018 – present

Professor of History and Environmental Studies  
Robert D. Clark Honors College, University of Oregon, 2017 – 2021

Associate Dean  
Robert D. Clark Honors College, University of Oregon, March 2014 – Sept. 2016

Associate Professor of History and Environmental Studies  
Robert D. Clark Honors College, University of Oregon, 2013 – 2017

Assistant Professor of History  
Robert D. Clark Honors College, University of Oregon, 2010 – 2013

Assistant Professor of History  
History Department, Washington and Lee University, Dec. 2006 – June 2010

S. V. Ciriacy-Wantrup Postdoctoral Fellow  
Geography Department, University of California, Berkeley, 2005 – 2006

## **PRIZES, AWARDS, AND DISTINGUISHED RECOGNITIONS**

Distinguished International Visiting Fellow, Department of Geography, University of Cambridge, UK, Spring 2022 [postponed from Spring 2020 due to Covid-19]  
Faculty Research Mentor Award, Center for Undergraduate Research and Engagement, University of Oregon, 2019  
King Albert Mountain Award, King Albert I Memorial Foundation, Switzerland, 2018 (gold medal awarded for "essential contributions to the mountain world")  
Fund for Faculty Excellence Award, University of Oregon, 2016

(for the UO's top "world-class tenured faculty" for their "scholarly influence within their respective fields, their contributions to program and institutional quality at the UO, and their academic leadership")

Outstanding Faculty Advisor Award, University of Oregon, 2015

(awarded to one faculty member across the entire UO each year)

Early Research Career Award/Research Excellence Award, University of Oregon, 2013

(awarded to top two UO assistant professors for "outstanding research activities")

Faculty Excellence Award from the Center for Multicultural Academic Excellence, University of Oregon, 2013 (awarded to two UO professors for extraordinary contributions to student diversity issues on campus)

Elinor Melville Prize for the Best Book in Latin American Environmental History, 2011, awarded by the American Historical Association's Conference on Latin American History

SONY Scholar Award, University of Oregon, 2011

(awarded to two UO assistant professors for "academic excellence and potential to contribute significantly to the body of scholarly work in their fields")

"Rising Star" Outstanding Faculty Award, Virginia State Council of Higher Education, 2009

(awarded to the top untenured faculty member in all disciplines and colleges/universities in Virginia for "superior accomplishments in teaching, research, and public service")

Leopold-Hidy Prize for best article in the journal *Environmental History*, 2007

Franklin Pease Award for best conference paper, International History Students Conference, Pontificia Universidad Católica del Perú, 2003

## EXTERNAL (NATIONAL/INTERNATIONAL) GRANTS AND FELLOWSHIPS

National Science Foundation, "Collaborative Research: NNA Research: Global Changes, Local Impacts: Study of Glacial Fjords, Ecosystems and Communities in Greenland," grant from the Navigating the New Arctic program (collaborators include: Fiammetta Straneo, Scripps Institution of Oceanography/UC San Diego; Christopher Little, Atmospheric and Environmental Research Inc; Lorenzo Ciannelli, Oregon State University; Patricia Matrai and Mattias Cape, Bigelow Laboratory for Ocean Sciences; Helene Seroussi, Dartmouth College), 2022-2026, **\$2,996,750**.

Andrew W. Mellon Foundation, "Pacific Northwest Just Futures Institute for Racial and Climate Justice," collaborative grant for several projects (with coordinating team of with John Arroyo, Stephanie LeMenager, Laura Pulido, Alai Reyes-Santos, and Marsha Weisiger), including 2 initiatives on "Ice, Society, and Climate Justice Initiative" and "Climate Change and Indigenous Peoples Initiative," 2021-2024. **\$4.52 million**.

National Science Foundation, "Dissertation Grant: The Seafloor and Society: How Technological Development on the Ocean Floor Transformed North America," Doctoral Dissertation Grant for co-PI Hayley Brazier in Science, Technology, and Society, 2020-2021, **\$12,990**.

National Science Foundation, "Collaborative Research: The Impact of Oceanic Forcing on the Melting of West Antarctic Peninsula Glaciers," Grant in Polar Programs, Antarctic Ocean and Atmospheric Sciences, 2016-2019 (with David Sutherland, University of Oregon; Carlos Moffat, University of California, Santa Cruz; Eugene W. Domack, University of South Florida; John M. Klinck, Old Dominion University; Michael Dinniman, Old Dominion University). **\$706,203**

National Science Foundation, "CAREER: Glaciers and Glaciology: How Nature, Field Research, and Societal Forces Shape the Earth Sciences," Grant in Science, Technology, and Society, 2013-2018. **\$459,452**

National Science Foundation, "Collaborative Research: Hydrologic Transformation and Human Resilience to Climate Change in the Peruvian Andes," Grant in Coupled Natural and Human Systems, 2010-2013 (with Jeff Bury, University of California, Santa Cruz; Bryan Mark, Ohio State University; and Kenneth Young, University of Texas – Austin). **\$1,013,521**

National Science Foundation, "Glacier Science and Technology in the Central Andes," Grant in Science, Technology, and Society, 2008-2010. **\$175,341**

Social Science Research Council Book Fellowship, 2007-2008

Mabelle McLeod Lewis Memorial Fund Dissertation Grant, 2004-2005

Switzer Environmental Fellowship, 2004-2005 (declined)

Social Science Research Council International Dissertation Fellowship, 2003-2004

American Meteorological Society History of Science Fellowship, 2003-2004

Pacific Rim Research Program Fellowship, 2003-2004

Hewlett-Packard Center for Information Technology in the Interest of Society (CITRIS) Graduate Fellowship, 2003-2004 (declined)

Young Scientist Award, Global Change System for Analysis, Research and Training (START), 2003

Fulbright Scholar, Nicaragua, 1998-1999

Inter-American Foundation Fellowship, Nicaragua, 1997-1998

## PUBLICATIONS

### Books:

**Mark Carey**, *Glaciares, cambio climático y desastres naturales: Ciencia y sociedad en el Perú* [Glaciers, climate change and natural disasters: Science and society in Peru], translated by Jorge Bayona, Lima, Peru: Instituto Francés de Estudios Andinos/Instituto de Estudios Peruanos, 2014. (translation, with new "preface to the Spanish edition," of *In the Shadow of Melting Glaciers*—see below)

**Mark Carey**, *In the Shadow of Melting Glaciers: Climate Change and Andean Society*, Oxford University Press, 2010.

\* Received Elinor Melville Prize for the Best Book in Latin American Environmental History, 2011, awarded by the American Historical Association's Conference on Latin American History

\* Finalist for the Turku Book Prize, awarded by the European Society for Environmental History/Rachel Carson Center, Munich, Germany

\* Reviewed in: *A Contracorriente: A Journal on Social History and Literature in Latin America*, *Ab Imperio*, *American Historical Review*, *Bulletin of the Pacific Circle*, *Environmental History*, *Hispanic American Historical Review*, *H-Environment Roundtable Reviews*, *H-LatAm*, *Histórica* (Peru), *History of Geo- and Space Sciences*, *The Holocene*, *Journal of Latin American Geography*, *Journal of Historical Geography*, *Journal of Latin American Studies*, *Mountain Research and Development*, *Nuevo Mundo/Mundos Nuevos*, *Revista Historia Iberoamericana*, *Social and Cultural Geography*, *Social History*, *Technology and Culture*, and numerous online websites

### Edited Books:

Emily O’Gorman, **Mark Carey**, Sandra Swart, and William San Martín, *Routledge Handbook of Environmental History*, Routledge, under contract and in development.

Christian Huggel, **Mark Carey**, John J. Clague, and Andreas Käb, *The High-Mountain Cryosphere: Environmental Changes and Human Risks*, Cambridge: Cambridge University Press, 2015.

### Peer-Reviewed Journal Articles:

\* denotes graduate student authors

† denotes undergraduate student authors

#### 2021

Holly Moulton\*, **Mark Carey**, Christian Huggel, and Alina Motschmann\*, "Narratives of Ice Loss: New Approaches to Shrinking Glaciers and Climate Change Adaptation," *Geoforum* 125 (2021): 47-56.

Zachary Provant\*, Evan Elderbrock\*, Andrea Willingham\*, **Mark Carey**, Alessandro Antonello, Carlos Moffat, Dave Sutherland, and Sakina Shahid†, "Reframing Antarctica's Ice Loss: Impacts of Cryospheric Change on Local Human Activity," *The Polar Record*, 57, e13 (2021): 1-11.

#### 2020

**Mark Carey**, Kathy Lynn, Clarita Lefthand-Begay, and Haley Case-Scott, "The Climate Change and Indigenous Peoples Initiative—Community Lectures, Student Conferences, and Tribal Interactions for Academic and Tribal Partnerships," *Western Humanities Review* 74, no. 3 (2020): 111-139.

Christian Huggel, **Mark Carey**, Adam Emmer, Holger Frey\*, Noah Walker-Crawford\*, Ivo Wallimann-Helmer, "Anthropogenic climate change and glacier lake outburst flood risk: local and global drivers and responsibilities for the case of Lake Palcacocha, Peru," *Natural Hazards and Earth System Sciences* 20 (2020): 2175-2193.

Alina Motschmann\*, Christian Huggel, **Mark Carey**, Holly Moulton\*, Noah Walker-Crawford\*, Randy Muñoz, "Losses and Damages Connected to Glacier Retreat in the Cordillera Blanca, Peru," *Climatic Change* 162 (2020): 837-858.

Alexandre Guittard, Michel Baraer, Jeffrey M. McKenzie, Bryan G. Mark, Alejo C. Rapre, Jeffrey Bury, **Mark Carey**, Kenneth R. Young, "Trace Metal Stream Contamination in a Post Peak Water Context: Lessons from the Cordillera Blanca, Peru," *ACS Earth and Space Chemistry* 4, no. 4 (2020): 506-514.

#### 2019

Henry P. Huntington, **Mark Carey**, Charlene Apok, Bruce C. Forbes, Shari Fox, Lene K. Holm, Aitalina Ivanova, Jacob Jaypoody, George Noongwook, Florian Stammer, "Climate change in context: putting people first in the Arctic," *Regional Environmental Change* 19, no. 4 (2019): 1217-1223.

Christian Huggel, Veruska Muccione, **Mark Carey**, Rachel James, Christine Jurt, and Reinhard Mechler, "Loss and Damage in the Mountain Cryosphere," *Regional Environmental Change* 19, no. 5 (2019): 1387–1399.

#### 2018

Mathias Vuille, **Mark Carey**, Christian Huggel, Wouter Buytaert, Antoine Rabatel, Dean Jacobsen, Alvaro Soruco, Marcos Villacis, Christian Yarleque, Oliver Elison Timm, Thomas Condom, Nadine Salzmänn, Jean-Emanuel Sicart, "Rapid Decline of

Snow and Ice in the Tropical Andes – Impacts, Uncertainties and Challenges Ahead," *Earth-Science Reviews* 176 (2018): 195-213.

## 2017

Alessandro Antonello and **Mark Carey**, "Ice Cores and the Temporalities of the Global Environment," *Environmental Humanities* 9, no. 2 (2017): 181-203.

Alexandre Guittard\*, Michel Baraer, Jeffrey M. McKenzie, Bryan G. Mark, Oliver Wigmore\*, Alfonso Fernandez\*, Alejo C. Rapre, Elizabeth Walsh, Jeffrey Bury, **Mark Carey**, Adam French, Kenneth R. Young, "Trace-Metal Contamination in the Glacierized Rio Santa Watershed, Peru," *Environmental Monitoring and Assessment* (2017): 189: 649 (pp. 1-16).

Bryan G. Mark, Adam French, Michel Baraer, **Mark Carey**, Jeffrey Bury, Kenneth R. Young, Molly H. Polk, Oliver Wigmore, Pablo Lagos, Ryan Crumley, Jeffrey M. McKenzie, and Laura Lautz, "Glacier Loss and Hydro-Social Risks in the Peruvian Andes," *Global and Planetary Change* 159 (2017): 61-76.

**Mark Carey**, Olivia C. Molden\*, Mattias Borg Rasmussen, M Jackson\*, Anne Nolin, and Bryan Mark, "Impacts of Glacier Recession and Declining Meltwater on Mountain Societies," *Annals of the American Association of Geographers* 107, no. 2 (2017): 350-359.

Molly Polk\*, Kenneth R. Young, Michel Baraer, Bryan G. Mark, Jeffrey McKenzie, Jeffrey Bury, and **Mark Carey**, "Exploring Hydrologic Connections between Tropical Mountain Wetlands and Glacier Recession in Peru's Cordillera Blanca," *Applied Geography* 78 (2017): 94-103.

## 2016

**Mark Carey**, Rodney Garrard\*, Courtney Cecale\*, Wouter Buytaert, Christian Huggel, and Mathias Vuille, "Climbing for Science and Ice: From Hans Kinzl and Mountaineering-Glaciology to Citizen Science in the Cordillera Blanca," *Revista de Glaciares y Ecosistemas de Montaña*, 1, no. 1 (Dec. 2016): 59-72.

**Mark Carey**, M Jackson\*, Alessandro Antonello, and Jaclyn Rushing†, "Glaciers, Gender, and Science: A Feminist Glaciology Framework for Global Environmental Change Research," *Progress in Human Geography* 40, no. 6 (2016): 770-793.

## 2015

Fabian Drenkhan\*, **Mark Carey**, Christian Huggel, Jochen Seidel, and María Teresa Oré, "The Changing Water Cycle: Climatic and Socioeconomic Drivers of Water-related Changes in the Andes of Peru," *WIREs Water* 2, no. 6 (2015): 715-733.

## 2014

**Mark Carey**, "Climate, Medicine, and Peruvian Health Resorts for Tuberculosis Treatment, 1850-1950," *Science, Technology, and Human Values* 39, no. 6 (2014): 795-818.

**Mark Carey**, Michel Baraer, Bryan G. Mark, Adam French\*, Jeffrey Bury, Kenneth R. Young, and Jeffrey M. McKenzie, "Toward Hydro-Social Modeling: Merging Human Variables and the Social Sciences with Climate-Glacier Runoff Models (Santa River, Peru)," *Journal of Hydrology* 518, Part A (2014): 60-70.

**Mark Carey** and Philip Garone, "Forum Introduction: Climate Change and Environmental History," *Environmental History* 19, no. 2 (April 2014): 282-293 (co-editor of Special Issue and co-author of the introductory article).

**Mark Carey**, "Science, Models, and Historians: Toward a Critical Climate History," *Environmental History* 19, no. 2 (April 2014): 354-364.

David J. Wrathall, Jeffrey Bury, **Mark Carey**, Bryan Mark, Jeff McKenzie, Kenneth Young, Michel Baraer, Adam French\*, and Costanza Rampini\*, "Migration Amidst Climate Rigidity Traps: Resource Politics and Social–Ecological Possibilism in Honduras and Peru," *Annals of the American Association of Geographers* 104, no. 2 (2014): 292-304.

Rebecca Lave, Matthew Wilson, Elizabeth Barron, Christine Biermann, **Mark Carey**, Martin Doyle, Chris Duvall, Leigh Johnson, Maria Lane, Jamie Lorimer, Nathan McClintock, Rachel Pain, Jim Proctor, Bruce Rhoads, Morgan Robertson, Jairus Rossi, Nathan Sayre, Gregory Simon, Marc Tadaki, and Chris Van Dyke, "Intervention: Critical Physical Geography," *Canadian Geographer/Le Géographe canadien* 58, no. 1 (2014): 1-10.

## 2013

Dáithí Stone, Maximilian Auffhammer, **Mark Carey**, Gerrit Hansen, Christian Huggel, Wolfgang Cramer, David Lobell, Ulf Molau, Andrew Solow, Lourdes Tibig, and Gary Yohe, "The Challenge to Detect and Attribute Effects of Climate Change on Human and Natural Systems," *Climatic Change* 121, no. 2 (Nov. 2013): 381-395.

Jeffrey Bury, Bryan G. Mark, **Mark Carey**, Kenneth R. Young, Jeffrey M. McKenzie, Michel Baraer, Adam French\*, and Molly H. Polk\*, "New Geographies of Water and Climate Change in Peru: Coupled Natural and Social Transformations in the Santa River Watershed," *Annals of the American Association of Geographers* 103, no. 2 (2013): 363-374.

## 2012

**Mark Carey**, "Climate and History: A Critical Review of Historical Climatology and Climate Change Historiography," *Wiley Interdisciplinary Reviews – Climate Change* 3, no. 3 (2012): 233-249.

**Mark Carey**, Adam French\*, and Elliott O'Brien†, "Unintended Effects of Technology on Climate Change Adaptation: An Historical Analysis of Water Conflicts below Andean Glaciers," *Journal of Historical Geography* 38, no. 2 (2012): 181-191.

**Mark Carey**, "Mountaineers and Engineers: The Politics of International Science, Recreation, and Environmental Change in Twentieth-Century Peru," *Hispanic American Historical Review* 92, no. 1 (2012): 107-141.

**Mark Carey**, Christian Huggel, Jeffrey Bury, César Portocarrero, and Wilfried Haeberli, "An Integrated Socio-Environmental Framework for Glacier Hazard Management and Climate Change Adaptation: Lessons from Lake 513, Cordillera Blanca, Peru," *Climatic Change* 112, no. 3-4 (2012): 733-767.

## 2011

**Mark Carey**, "Inventing Caribbean Climates: How Science, Medicine, and Tourism Changed Tropical Weather from Deadly to Healthy," *Osiris* 26, no. 1 (2011): 129-141.

-- Article reprinted in Mike Hulme, ed., *Climates and Cultures. Volume Two: Historical Readings of Climate* (London: Sage, 2015), chap. 20.

## 2009

**Mark Carey**, "Latin American Environmental History: Current Trends, Interdisciplinary Insights, and Future Directions," *Environmental History* 14, no. 2 (April 2009): 221-252.

## 2007

**Mark Carey**, "The History of Ice: How Glaciers Became an Endangered Species," *Environmental History* 12, no. 3 (July 2007): 497-527. Winner of Leopold-Hidy Prize for best article published in the journal in 2007.

## 2005

**Mark Carey**, "Living and Dying with Glaciers: People's Historical Vulnerability to Avalanches and Outburst Floods in Peru," *Global and Planetary Change*, vol. 47, no. 2-4 (July 2005): 122-134.

## 2002

**Mark Carey**, "La influencia Mayangna en la historia de la Costa Atlántica nicaragüense," *Revista de Historia*, guest eds., Robert Carmack and Mario Rizo, vol. 14 (2002): 73-88.

## **Peer-Reviewed Book Chapters:**

### In Press

Hayley Brazier\* and **Mark Carey**, "Where the Ice Ends: Boundaries of Place and Time at the Edge of the Polar Oceans," in *Cambridge History of the Polar Regions*, eds., Adrian Howkins and Peder Roberts (New York: Cambridge University Press), in press, Chapter 30.

**Mark Carey**, Jordan Barton<sup>†</sup>, and Sam Flanzer<sup>†</sup>, "Glacier Protection Campaigns – What Do They Really Save?" in *Ice Humanities: Materiality, Ontology and Representation*, eds., Klaus Dodds and Sverker Sörlin (Manchester: Manchester University Press), in press.

## 2021

**Mark Carey**, Graham McDowell, Christian Huggel, Becca Marshall<sup>†</sup>, Holly Moulton\*, César Portocarrero, Zachary Provant\*, John M. Reynolds, Luis Vicuña, "A Socio-Cryospheric Systems Approach to Glacier Hazards, Glacier Runoff Variability, and Climate Change," *Snow and Ice-Related Hazards, Risks, and Disasters*, 2<sup>nd</sup> edition, edited by Wilfried Haeberli and Colin Whiteman (Amsterdam: Elsevier, 2021), 215-257.

## 2020

Eden Medina and **Mark Carey**, "New Narratives of Technology, Expertise, and Environment in Latin America: The Cold War and Beyond," in *Itineraries of Expertise: Science, Technology, and the Environment in Latin America's Long Cold War*, eds., Andra B. Chastain and Timothy W. Lorek (Pittsburgh: University of Pittsburgh Press, 2020), 303-330.

## 2019

Regine Hock, Golam Rasul, Carolina Adler, Bolívar Cáceres, Stephan Gruber, Yukiko Hirabayashi, Miriam Jackson, Andreas Käab, Shichang Kang, Stanislav Kutuzoy,

Alexander Milner, Ulf Molau, Samuel Morin, Ben Orlove, Heidi Steltzer, Simon Allen, Lukas Arenson, Soumyadeep Baneerjee, Iestyn Barr, Roxana Bórquez, Lee Brown, Bin Cao, **Mark Carey**, Graham Cogley, Andreas Fischlin, Alex de Sherbinin, Nicolas Eckert, Marten Geertsema, Marca Hagenstad, Martin Honsberg, Eran Hood, Matthias Huss, Elizabeth Jimenez Zamora, Sven Kotlarski, Pierre-Marie Lefeuvre, Juan Ignacio López Moreno, Jessica Lundquist, Graham McDowell, Scott Mills, Cuicui Mou, Santosh Nepal, Jeannette Noetzli, Elisa Palazzi, Nick Pepin, Christian Rixen, Maria Shahgedanova, S. McKenzie Skiles, Christian Vincent, Daniel Viviroli, Gesa Weyhenmeyer, Pasang Yangjee Sherpa, Nora Weyer, Bert Wouters, Teppei J. Yasunari, Qinglong You, Yangjiang Zhang, "High Mountain Areas," in *IPCC Special Report on the Ocean and Cryosphere in a Changing Climate*, Intergovernmental Panel on Climate Change (IPCC), 2019, Chapter 2.

## 2018

**Mark Carey**, "Regando el desierto, alimentando la revolución: La influencia de Velasco en las leyes del agua y la agricultura en la costa norte del Perú (Chavimochic)," trans., Fernando Purcell, in *La revolución peculiar: Repensando el gobierno militar de Velasco*, eds., Carlos Aguirre and Paulo Drinot (Lima: Instituto de Estudios Peruanos, 2018), 319-352.

## 2017

Kenneth R. Young, Jeffrey Bury, **Mark Carey**, Bryan G. Mark, Jeffrey M. McKenzie, Michel Baraer, Adam French, and Molly H. Polk, "A Socio-Ecological Perspective on Change Driven by both Social and Climatic Factors: The Santa River in Peru," in *The Lima Declaration on Biodiversity and Climate Change: Contributions from Science to Policy for Sustainable Development*. Technical Series No. 89, eds., L. Rodríguez and I. Anderson (Montreal: Secretariat of the Convention on Biological Diversity), 116-121.

Rodney Garrard\* and **Mark Carey**, "Beyond Images of Melting Ice: Hidden Stories of People, Place, and Time in Repeat Photography of Glaciers," in *Before-and-After Photography: Histories and Contexts*, eds., Jordan Bear and Kate Palmer Albers (New York: Bloomsbury Press, 2017), 101-122.

**Mark Carey**, "Watering the Desert, Feeding the Revolution: Velasco's Influence on Water Law and Agriculture on Peru's North-Central Coast," in *The Peculiar Revolution: Rethinking the Peruvian Experiment under Military Rule, 1968-1975*, edited by Carlos Aguirre and Paulo Drinot (Austin: University of Texas Press, 2017), 241-265.

**Mark Carey**, Kathy Lynn, Kevin Hatfield, and Jennifer O'Neal, "Teaching about Climate Change and Indigenous Peoples: Decolonizing Research and Broadening Knowledge," in *Teaching Climate Change in the Humanities*, edited by Stephen Siperstein, Shane Hall, and Stephanie LeMenager (New York: Routledge, 2017), 86-93.

## 2016

Adam French, Michel Baraer, Jeffrey T. Bury, **Mark Carey**, Bryan G. Mark, Jeffrey M. McKenzie, Kenneth R. Young, and Molly H. Polk\*, "Coyuntura crítica: Cambio climático, globalización y la doble exposición en el sistema socio-hidrológico de la cuenca del Río Santa, Perú," in *Naturaleza y sociedad: Perspectivas socio-*



*ecológicas sobre cambios globales en América Latina*, edited by Julio C. Postigo and Kenneth R. Young (Lima: desco, IEP and INTE-PUCP, 2016), 303-340.

**Mark Carey**, "The Trouble with Climate Change and National Parks," in *National Parks Beyond the Nation: Global Perspectives on "America's Best Idea,"* edited by Adrian Howkins, Jared Orsi, and Mark Fiege (Norman: University of Oklahoma Press, 2016), 258-277.

-- Chapter reprinted in *Forest History Today* 23, no. 1 (Spring 2017): 57-67.

## 2015

Christian Huggel, **Mark Carey**, John J. Clague, and Andreas Kääb, "Introduction: The complexity of high mountain human cryosphere environments unfolded," in *The High-Mountain Cryosphere: Environmental Changes and Human Risks*, edited by Christian Huggel, Mark Carey, John J. Clague, and Andreas Kääb (New York: Cambridge University Press, 2015), 1-6.

**Mark Carey**, Christian Huggel, John J. Clague, and Andreas Kääb, "Synthesis and Conclusions: The Future of High-Mountain Cryospheric Research," in *The High-Mountain Cryosphere: Environmental Changes and Human Risks*, edited by Christian Huggel, Mark Carey, John J. Clague, and Andreas Kääb (New York: Cambridge University Press, 2015), 339-353.

**Mark Carey**, Graham McDowell\*, Christian Huggel, M Jackson\*, César Portocarrero, John Reynolds, and Luis Vicuña, "Integrated Approaches to Adaptation and Disaster Risk Reduction in Dynamic Socio-cryospheric Systems," in *Snow and Ice-Related Hazards, Risks, and Disasters*, edited by Wilfried Haeberli and Colin Whiteman (Amsterdam: Elsevier, 2015), 219-261.

## 2014

**Mark Carey**, "Beyond Weather: The Culture and Politics of Climate History," in *Oxford Handbook of Environmental History*, edited by Andrew Isenberg (New York: Oxford University Press, 2014), 23-51.

Wolfgang Cramer, Gary Yohe, Maximilian Auffhammer, Christian Huggel, Ulf Molau, Maria Assuncao Silva Dias, Andrew Solow, Dáithí Stone, Lourdes Tibig, Laurens Bouwer, **Mark Carey**, Graham Cogley, Dim Coumou, Yuka Otsuki Estrada, Eberhard Faust, Gerrit Hansen, Ove Hoegh-Guldberg, Joanna I. House, Solomon Hsiang, Lesley Hughes, Sari Kovats, Paul Leadley, David Lobell, Camille Parmesan, Elvira Poloczanska, Hans Otto Pörtner, Andy Reisinger, "Detection and Attribution of Observed Impacts," in *Climate Change 2014: Impacts, Adaptation, and Vulnerability, Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* (IPCC) (New York: Cambridge University Press, 2014), 979-1038.

Joan Nymand Larsen, Oleg A. Anisimov, Andrew Constable, Anne Hollowed, Nancy Maynard, Pål Prestrud, Terry Prowse, John Stone, Terry Callaghan, **Mark Carey**, Peter Convey, Andrew Derocher, Peter T. Fretwell, Bruce C. Forbes, Solveig Glomsrød, Dominic Hodgson, Eileen Hofmann, Grete K. Hovelsrud, Gita L. Ljubicic, Harald Loeng, Eugene Murphy, Steve Nicol, Anders Oskal, James D. Reist, Phil Trathan, Barbara Weinecke, Fred Wrona, "Polar Regions," in *Climate Change 2014: Impacts, Adaptation, and Vulnerability, Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* (IPCC) (New York: Cambridge University Press, 2014), 1567-1612.

2012

**Mark Carey**, "From National Parks to National Archives: The Diplomacy of Research in Latin America," in *Research Beyond Borders: Multidisciplinary Reflections*, eds. Lise-Hélène Smith and Anjana Narayan (Lanham, MD: Lexington Books of Rowman and Littlefield, 2012), 23-35.

2008

**Mark Carey**, "Disasters, Development, and Glacial Lake Control in Twentieth-Century Peru," in *Mountains: Sources of Water, Sources of Knowledge*, ed. Ellen Wiegandt (The Netherlands: Springer, 2008), 181-196.

**Mark Carey**, "The Politics of Place: Inhabiting and Defending Glacier Hazard Zones in Peru's Cordillera Blanca," in *Darkening Peaks: Glacial Retreat in Scientific and Social Context*, eds. Ben Orlove, Ellen Wiegandt, and Brian Luckman (Berkeley: University of California Press, 2008), 229-240.

-- Chapter reprinted in Michael R. Dove, ed., *The Anthropology of Climate Change: An Historical Reader* (Malden, MA: Wiley-Blackwell, 2014), 247-260.

**Invited and Editor-Reviewed Articles in Journals**

**Mark Carey**, Holly Moulton\*, Jordan Barton†, Dara Craig\*, Zachary Provant\*, Casey Shoop, Jenna Travers†, Jeremy Trombley, and Adriana Uscanga\*, "Justicia glaciar en los Andes y más allá," *Revista Ambiente, Comportamiento y Sociedad* 3, no. 2 (2020): 28-38.

**Mark Carey**, "Necesitamos sociólogos, antropólogos, psicólogos e historiadores que investiguen el cambio climático," *Revista Libros y Ciencias*, 1 (Diciembre 2020): 12-14.

**Mark Carey** and Rodney Garrard, "Lessons from the Andes: A Call to Reconnect Mountaineers and Science," *The Alpine Journal* 122, no. 366 (2018): 154-164.

**Mark Carey**, "Desglaciación, avalanchas y deslizamiento de tierras – dimensiones sociales," in *Ciencia y Sociedad: 'Desastres naturales'; Investigación Científica y Marco Institucional de Acción* (Lima: CONCYTEC, 2018): 1-8.

**Mark Carey** and Holly Moulton, "Adapting to Climate Hazards in the Peruvian Andes," *Current History* 117, no. 796 (Feb. 2018): 62-68.

**Mark Carey**, Lincoln C. James†, and Hannah A. Fuller†, "A New Social Contract for the IPCC," *Nature Climate Change* 4 (Dec. 2014): 1038-1039.

**Mark Carey**, "Commodities, Colonial Science, and Environmental Change in Latin American History," *Radical History Review* 107 (Spring 2010): 185-194.

**Mark Carey**, "The Nature of Place: Recent Research on Environment and Society in Latin America," *Latin American Research Review* 42, no. 3 (2007): 251-264.

**Mark Carey**, "Beyond the Archive: A Practical Guide for Research in Latin America," *Brújula* 5, no. 1 (Dec. 2006): 173-176.

**Published Book Reviews:**

- The Technocratic Antarctic: An Ethnography of Scientific Expertise and Environmental Governance*, by Jessica O'Reilly, reviewed for *Progress in Human Geography* (2017): DOI: 10.1177/0309132517744705.
- La Frontera: Forests and Ecological Conflict in Chile's Frontier Territory*, by Thomas Klubock, reviewed for *Environmental History* 21, no. 1 (2016): 140-142.
- The Summits of Modern Man: Mountaineering after the Enlightenment*, by Peter H. Hansen, reviewed for *Journal of Modern History* 87, no. 3 (2015): 710-711.
- Glaciers: The Politics of Ice*, by Daniel Taillant, reviewed for *Nature* 522 (25 June 2015): 416-417.
- A Land between Waters: Environmental Histories of Modern Mexico*, edited by Christopher R. Boyer, reviewed for *Journal of Latin American Studies* 46, no. 1 (2014): 207-208.
- Locales of Happiness: Colonial Irrigation in the Netherlands East Indies and its Remains, 1830-1980*, by Maurits Ertsen, reviewed for *History of Geo- and Space Sciences* 5 (2014): 73-74.
- Enemy in the Blood: Malaria, Environment, and Development in Argentina*, by Eric D. Carter, reviewed for *Environmental History* 19, no. 1 (2014): 146-148.
- Hawai'i's Mauna Loa Observatory: Fifty Years of Monitoring the Atmosphere*, by Forrest Mims III, reviewed for *Bulletin of the Pacific Circle* No. 31 (Oct. 2013): 15-19.
- Mercury, Mining, and Empire: The Human and Ecological Cost of Colonial Silver Mining in the Andes*, by Nicholas A. Robins, reviewed for *Environmental History* 17, no. 4 (2012): 860-862.
- Merchants of Doubt: How a Handful of Scientists Obscured the Truth on Issues from Tobacco Smoke to Global Warming*, by Naomi Oreskes and Erik M. Conway, reviewed for H-Environment Roundtable Reviews vol. 1, no. 2 (2011): [www.h-net.org/~environ/roundtables](http://www.h-net.org/~environ/roundtables).
- Aftershocks: Earthquakes and Popular Politics in Latin America* (2009), edited by Jurgen Buchenau and Lyman L. Johnson, *Journal of Interdisciplinary History*, 41, no. 2 (2010): 328-330.
- Weathering Risk in Rural Mexico: Climatic, Institutional, and Economic Change* (2006), by Hallie Eakin, *Bulletin of Latin American Research* 28, no. 2 (2009): 298-300.
- The Callendar Effect: The Life and Work of Guy Stewart Callendar (1898-1964), the Scientist Who Established the Carbon Dioxide Theory of Climate Change* (2007), by James Rodger Fleming, *Environmental History* 13, no. 1 (Jan. 2008): 158-160.
- Intimate Universality: Local and Global Themes in the History of Weather and Climate* (2006), ed. by James Rodger Fleming, Vladimir Jankovic, and Deborah R. Coen, *Environmental History* 13, no. 1 (Jan. 2008): 158-160.
- "Science and Scientists in Latin America: An Historical Overview," *A Contracorriente* 5, no. 1 (Fall 2007): 430-442. (Review essay of *Science in Latin America: A History*, edited by Juan José Saldaña and Bernabé Madrigal, 2006.)
- Estudios de historia medioambiental, Perú, siglos XVI-XX* [Studies in Environmental History, Peru, 16th-20th Centuries] (2002), by Lizardo Seiner, *Histórica* 27, num. 2 (Diciembre 2004): 515-519.
- Las Cordilleras del Perú* [The Mountain Ranges of Peru] (2001), by César Morales Arnao, *Revista de Indias* 63, num. 228 (Mayo-Agosto 2003): 597-599.
- Fritz Müller: A Naturalist in Brazil* (2003), by David A. West, H-Net Review, H-Environment (Nov. 2003).

- Disparate Diasporas: Identity and Politics in an African-Nicaraguan Community* (1998), by Edmund T. Gordon, *Mesoamérica* (Guatemala) vol. 43 (Junio 2002): 183-186.
- West Indian Workers and the United Fruit Company in Costa Rica, 1870-1940* (1996), by Aviva Chomsky, in *Mesoamérica* (Guatemala) vol. 41 (Junio 2001): 255-258.
- The Blood of Guatemala: A History of Race and Nation* (2000), by Greg Grandin, H-Net Review, H-LatAm (Sept. 2000).
- A Place in the Rain Forest: Settling the Costa Rican Frontier* (1997), by Darryl Cole-Christensen, H-Net Review, H-LatAm (April 1999).

**Other Publications (Articles, Conference Proceedings, Encyclopedia Articles, Editorials, Interviews):**

- "Fixing How We Talk about Glaciers and Climate Change," extended interview for Fix-It! Podcast, October 2020.
- "Three Qs [interview]," *Science* 351, no. 6279 (18 March 2016): 1245-1246.
- "Q&A: Author of 'feminist glaciology' study reflects on sudden appearance in culture wars," interview by Carolyn Gramling, *Science* (11 March 2016): <http://www.sciencemag.org/news/2016/03/qa-author-feminist-geology-study-reflects-sudden-place>.
- "Glaciares, cambio climático y desastres naturales," interview with *El Comercio* (Peru), 26 Nov. 2014: <https://elcomercio.pe/blog/librosami/2014/11/glaciares-cambio-climatico-y-desastres-naturales>.
- "Los riesgos glaciares y sus lecciones para el futuro," in *Los impactos del cambio global en las áreas naturales protegidas y sus zonas de influencia: El caso del Parque Nacional Huascarán y la cuenca del río Santa, Las Áreas Naturales Protegidas Informan* No. 1 (2013): 29-34.
- "Glaciers," in *The Encyclopedia of Sustainability: Vol. 4. Natural Resources and Sustainability*, eds. Sarah Fredericks, Lei Shen, Shirley Thompson, & Daniel Vasey (Great Barrington, MA: Berkshire Publishing, 2012), 181-183.
- "Author's Response" to four book reviews of Mark Carey, *In the Shadow of Melting Glaciers: Climate Change and Andean Society* (Oxford, 2010), *H-Environment Roundtable Reviews*, vol. 1, no. 4 (2011): 18-25.
- "Historian Gauges Social Side of Glacial-Melt Equation," *EcoAméricas* 13, no. 10 (Aug 2011): p. 12 (Q&A with correspondent Barbara Fraser).
- "Icy Disaster in the Andes, Climate Lesson for the World," Oxford University Press Blog, <http://blog.oup.com/2010/05/climate-lesson/>, April 2010.
- "Mark Carey Responds," Social Science Research Council (SSRC) Book Exchange (2010), <http://www.ssrc.org/features/view/in-the-shadow-of-melting-glaciers-idrf-book-exchange/>
- "Local Communities and Glacial Lake Outburst Flood Mitigation: Lessons from Peru," *Geophysical Research Abstracts* 12 (2010): EGU2010-14981.
- "Avalanches," in *Encyclopedia of World Environmental History*, eds. Shepard Krech III, John R. McNeill, and Carolyn Merchant (Mass.: Berkshire Publishing Group/Routledge, 2004), 106-109.
- "Glaciers," in *Encyclopedia of World Environmental History*, *Ibid.*, 587-589.

"Mountaineering," in *Encyclopedia of World Environmental History*, Ibid., 859-861.

"Natural Resources, Markets, and Land Use Change Among Nicaragua's Mayangna Indians, 1800 to the Present," *Proceedings of the Rocky Mountain Council on Latin American Studies*, 1998, ed., John F. Schwaller, Las Cruces, NM: RMCLAS, 1999.

## OUTREACH, ORGANIZING, AND RESEARCH ACTIVITIES

Founder and director of the Glacier Lab for the Study of Ice and Society, University of Oregon, 2013 – present

Co-founder and co-director of the Transdisciplinary Andean Research Network (TARN), a collaborative, international, and interdisciplinary research group involving faculty and students working on climate change issues in the Andes, 2013-present

\* Co-founders are: Michel Baraer (Université du Québec), Jeff Bury (UC Santa Cruz), Adam French (UC Berkeley), Bryan Mark (Ohio State), Jeff McKenzie (McGill University), and Kenneth Young (University of Texas, Austin)

Co-founder and co-director with Kathy Lynn (University of Oregon), Climate Change and Indigenous Peoples Initiative, 2012-present

## WEBSITE CREATION AND EDITOR

<http://glaciers.uoregon.edu/>

"Glaciers, Climate, and Society: Educational Resources and Bibliographies"

<http://glacierlab.uoregon.edu/>

"The Glacier Lab: For the Study of Ice and Society"

<http://ccip.uoregon.edu/>

"Climate Change and Indigenous Peoples: Events, Research, and Initiatives at the University of Oregon" (co-creator and co-editor with Kathy Lynn, Tribal Climate Change Project Coordinator)

<http://glaciers.wlu.edu/>

"Glacier Hazards and Society: Online Bibliography and Resources"

## TEACHING - COURSES

### University of Oregon (Fall 2010 – present)

HC 231H, Indigenous Peoples, Knowledge, and Landscapes

HC 431/421/441, Arctic Ice in Science, Policy and the Imagination, team taught with David Sutherland (Earth Sciences) and Casey Shoop (Literature)

HC 431H/434H, Prison Education Program: Water, Climate, and Environmental Justice (Inside-Out Prison Exchange course taught in the Oregon State Penitentiary)

CAS 507, Prison Education Program: Water, Climate, and Environmental Justice (Inside-Out Prison Exchange course taught in the Oregon State Penitentiary)

HC 231H, Science, Technology, and Environment in the Pre-Columbian Americas

HC 231H, Nature and Knowledge from the Greeks to the Aztecs

HC 232H, Environment and Empire in the Modern World  
HC 431H/434H, Climate and Culture in the Americas  
HC 408H, Thesis Orientation  
HC 477H, Thesis Prospectus

**Washington and Lee University (Winter 2007 - Spring 2010)**

HIST 130, Latin America from the Mayas to Independence  
HIST 131, Modern Latin America  
HIST 180, Natural Disasters in the Americas  
HIST 233, US-Latin American Relations  
HIST 336, Latin American Environmental History  
HIST 337, Revolutions in Latin America  
INTR 296, Study Abroad in the Caribbean (Barbados and St. Vincent)

**University of California, Davis (2004-2005)**

HIST 168, Inter-American Relations  
HIST 102J, History of Natural Disasters, co-taught with Charles Walker  
HIST 162, History of the Andean Region

**FACULTY COLLABORATIONS AND POSTDOC MENTORING**

**Faculty Hosting**

Leonora King, Visiting Professor from Kwantlen Polytechnic University, British Columbia, Canada, 2019  
Rafico Ruiz, Fulbright Canada Research Chair in Arctic Studies, Fulbright Visiting Speaker from Dartmouth College/University of Alberta, Canada, 2018  
Fernando Purcell, Visiting Professor from Pontificia Universidad Católica, Santiago, Chile, 2016 and 2018  
Asghar Khan, Visiting Professor from Karakoram International University, Pakistan, 2016

**Postdoc Advisor**

Jeremy Trombley, Postdoctoral Research Fellow, co-advised with Dave Sutherland (Department of Earth Sciences), 2020-2022  
Alessandro Antonello, Postdoctoral Research Fellow (NSF grant funded), 2014-2016 (placed in School of Historical and Philosophical Studies, University of Melbourne, Australia; currently Senior Research Fellow at Flinders University, Australia)

**DISSERTATION AND THESIS COMMITTEES**

**Ph.D. Advisor**

Dara Craig, Environmental Sciences, Studies, and Policy Program, 2020-  
Zachary Provant, Environmental Sciences, Studies, and Policy Program, 2018-  
Holly Moulton, Environmental Sciences, Studies, and Policy Program, 2017-  
Hayley Brazier, History Department, University of Oregon, 2015- (co-advisor)  
M Jackson, Geography Department, University of Oregon, 2012-2017 (co-advisor)

### **Ph.D. Committee Member**

Stephen Chignell, Institute for Resources, Environment and Sustainability,  
University of British Columbia, 2020-  
Alex Hager, Earth Sciences Department, University of Oregon, 2019-  
Kali Abel, Geography Department, Oregon State University, 2019-  
Olivia Molden, Geography Department, University of Oregon, 2014-2019  
Dustin Carroll, Department of Geological Sciences, University of Oregon, 2014-  
2017  
Sean Munger, History Department, University of Oregon, 2013-2017  
Carolyn Roeder, History Department, Harvard University, 2013-2017

### **M.A. Advisor**

Michael Madden, Environmental Studies Program, University of Oregon, 2018-  
Colin Rosemont, Environmental Studies Program, University of Oregon, 2017-  
2019  
Andrea Willingham, Environmental Studies Program, University of Oregon, 2015-  
2017

### **Undergraduate Honors Thesis Major Advisor**

Jordan Barton, Biology and Legal Studies, 2020-2021  
Josie Kinney, Environmental Studies/Spanish, 2016-2017  
Lisa Giamberso Environmental Studies, 2012-2014  
Kelsey Ward, Environmental Studies, 2012-2013  
Allison Ahl, History, 2010-2011

### **Undergraduate Honors Thesis Committee Member**

77 Honors Theses, Clark Honors College Representative, 2010-2021

## **INVITED KEYNOTE AND DISTINGUISHED LECTURES**

- "The Culture and Politics of Ice," invited distinguished lecture for the Australian Museum, Sydney, Australia, October 2019.
- "Rethinking Glaciers and Icebergs: From the Sinking *Titanic* to Climate Change and Offshore Oil," Annual Rev. James Connelly, C.S.C. Endowed Lecture, University of Portland, OR, February 2019.
- "Mountains and the Politics of Ice," invited award-winner lecture for the King Albert Mountain Award ceremony, Pontresina, Switzerland, September 2018.
- "Cambio climático, desastres glaciares y justicia ambiental, " invited Keynote Lecture for the Foro Internacional de Ciencias Sociales: Diálogos Interdisciplinarios sobre el Cambio Climático, Desastres y Gobernanza, Cusco, Peru, August 2017.
- "The Nature and Politics of Knowledge: Perspectives from the Cold War to the Present," invited Keynote Lecture for the "Traveling Technocrats: Experts and Expertise in Latin America's Long Cold War" conference, Yale University, October 2016.
- "Glaciers, Science, and Culture Wars: A Case for Environmental Humanities," invited Distinguished Lecture for the Environmental Arts and Humanities Graduate Conference, Oregon State University, Corvallis, OR, May 2016.

"Feminist Glaciology: Rethinking Power, Knowledge, and Ice in the 1970s," invited keynote lecture for the "1970s: Turn of an Era in the History of Science?" workshop, Aarhus University, Denmark, September 2015.

"Glaciers, glaciology and gender: Critical societal perspectives," invited keynote lecture for the "Vanishing Glaciers and Coping Communities: Insights from Around the World" conference, Bern, Switzerland, September 2015.

"Glaciares, riesgos y agua desde las perspectivas socio-cultural y científica," invited keynote address co-presented with César Portocarrero for the Foro Internacional Glaciares, Huaraz, Peru, July 2013

"Mountaineering, Climate Change, and the Making of Geographical Knowledge," invited keynote lecture for the Geography Institute Graduate Student Workshop, University of Zurich, Switzerland, November 2010.

"Una perspectiva histórica del cambio climático y el retroceso glaciar en los andes," invited keynote lecture for the "Adaptándonos a un mundo sin glaciares: realidades, desafíos y acciones," Workshop-Conference, Peru, July 2009.

## INVITED LECTURES

"The Inequality of Ice Loss: Perspectives from a Social Scientist," invited International Glaciological Society Global Seminar, May 2021.

"The Politics and Injustice of Ice Loss," invited lecture, Union College, New York, February 2021.

"Icebergs and Society in the North Atlantic Ocean," invited lecture, Scripps Institution for Oceanography, January 2021.

"Understanding the Ice: Socio-Physical Intersections of Cryospheric Knowledges," invited lecture for the Geographical Society at University of Cambridge, UK, November 2020.

"Toward Glacier and Iceberg Justice — We Need New Stories of Ice," invited lecture, University of California, Los Angeles, February 2020.

"The War Against Icebergs: A New View of Ice, Oceans, and Oil Extraction," invited lecture, Environmental Humanities Research Stream, Macquarie University, Sydney, Australia, October 2019.

"Who Speaks for the Environment—and What Are the Implications?" invited lecture and workshop convener, Macquarie University, Sydney, Australia, October 2019.

"Glaciares, agua y el ciclo hidrosocial – perspectivas de poblaciones locales," invited lecture, Pontificia Universidad Católica de Chile, Villarrica, Chile, March 2019.

"Donde los glaciares se retiran, la política y el imperialismo avanzan—las soluciones al cambio climático en contexto histórico," invited lecture, Pontificia Universidad Católica de Chile, Santiago, Chile, March 2019.

"The Politics of Ice," invited lecture, University of Portland, OR, February 2019.

"Glaciers, Water, and Culture," invited public lecture for the Museum of Natural and Cultural History "Ideas on Tap" lecture series, Viking Braggot Company, Eugene, OR, November 2018.



- "What Is an Iceberg? Redefining Ice from Cultural and Historical Perspectives," invited Quack Chat public lecture, Downtown Athletic Club, Eugene, OR, September 2018.
- "Taming Wild Ice: The Quest to Manage Icebergs in the North Atlantic," invited presentation for the "After Ice: New Horizons for Cryographic Knowledges" symposium, University of Alberta, Canada, May 2018.
- "Perspectivas sociales sobre la desglaciación, avalanchas y deslizamiento de tierras," invited lecture for the symposium "Ciencia y Sociedad: 'Desastres naturales'; Investigación Científica y Marco Institucional de Acción," CONCYTEC, Lima, Peru, March 2018.
- "Icebergs and the Anthropocene," invited lecture, Georgetown University, November 2017.
- "Research Processes and Politics in the Peruvian Andes," invited webinar presentation to the Association of Polar Early Career Scientists, September 2017.
- "La adaptación en alta montaña: consideraciones," invited lecture for the Escuela de Invierno 2017: Multi-uso de recursos hídricos en alta montaña, Pisac, Peru, August 2017.
- "Understanding and Controlling Icebergs: The Science, Art, and Engineering of Ice in the North Atlantic," invited lecture, Portland State University, April 2017.
- "Becoming a Public Intellectual in the 21<sup>st</sup> Century," invited lecture for the Professional Development Events of the Graduate School, University of Wisconsin – Milwaukee, April 2017.
- "Climate and Glacier Hazards in the Andes," invited presentation for "Hurricanes, Famine & Floods: Social Histories of Disaster in the Americas" course, University of Delaware, April 2017.
- "Bombing Icebergs and Engineering the Ocean: An Environmental History of the International Ice Patrol," invited lecture and paper for the Duke History Colloquium, Duke University, January 2017.
- "Dying Glaciers and Thirsty People: Reframing Climate Research Around Social Justice," invited lecture, Pomona College, November 2016.
- "Deep Ice Cores, Time, and the Re-envisioning of the Global Environment," invited paper presented to the Yale Environmental History Colloquium, Yale University, October 2016.
- "New Perspectives on Glacier Retreat and Water Reduction for Mountain Societies," invited lecture at the University of East Anglia's Water Security Research Centre, Norwich, United Kingdom, May 2016.
- "Ice Cores, Time, and the Re-envisioning of the Global Environment" invited lecture for the "Experiencing the Global Environment" workshop, Max Planck Institute for the History of Science, Berlin, Germany, February 2016.
- "Glaciares, cambio climático y desastres naturales: Ciencia y sociedad en el Perú," invited lecture and book presentation, Institute of Peruvian Studies (IEP), Lima, Peru, May 2015.

- "Glaciares, cambio climático y desastres naturales: Ciencia y sociedad en el Perú," invited lecture and book presentation, National Institute of Culture, Huaraz, Peru, May 2015.
- "Glaciers, Gender, and Science: Toward a Feminist Glaciology," invited lecture for the Geography Colloquium, Ohio State University, February 2015.
- "Glaciers, Science, and Top Secret Military Schemes," invited Nancy R. Chandler Visiting Scholar Lecture, Central Oregon Community College and Sunriver Nature Center, Bend, OR, October 2014.
- "Glaciers, National Security, and the Roots of Cutting Edge Climate Science," invited public lecture for the Science Pub Eugene, Oregon Museum of Science and Industry (OMSI), June 2014.
- "Marine Environmental History and the International Ice Patrol in the North Atlantic," invited presenter for the Andrew W. Mellon Foundation "Sea Change: Integrating the Historical Study of Human Cultures and Marine Environments in Three Pacific Regions" seminar at the University of California, Santa Barbara, April 2014.
- "Climate Change, Watersheds, and Technologies: Historical Perspectives on Irrigation in Peru," invited lecture and discussion, University of California, Santa Barbara, April 2014
- "Vulnerability to Climate Change, Glacier Retreat, and Hydrologic Variability: The Case of Export Agriculture in Peru," invited speaker for the "Climate Change, Global Health and the Inequalities of Risk" symposium, University of Washington, Seattle, April 2014
- "The International Ice Patrol: Or, How Icebergs (and Iceberg Hunters) Shaped the Modern World," invited paper and lecture for the Mellon Research Initiative "Environments & Societies: History, Literature, and Justice," University of California, Davis, January 2014
- "Watering the Desert, Feeding the Revolution: Velasco's Influence on Water Law and Agriculture on Peru's North-Central Coast," invited paper and presentation for the "Rethinking Military Nationalism: New Perspectives on the Revolutionary Government of the Armed Forces, Peru, 1968-1975" conference, University College London, United Kingdom, October 2013
- "Cambio climático, glaciares y la perspectiva socio-hidrológica en la cuenca del río Santa," invited public lecture co-presented with Adam French, Universidad Privada Antenor Orrego, Trujillo, Peru, July 2013
- "Cold War Climate Science since 1950," invited lecture at the "Colonialism and Climate History" Workshop at Georgetown University Sponsored by the German Federal Ministry of Education and Research, the Mortara Center for International Studies at Georgetown University, and the German Historical Institute in Washington DC, June 2013
- "Encounters with Ice: How Glaciers Changed the World and Captured Our Imagination," invited lecture, Osher Lifelong Learning Center, Eugene, Oregon, April 2013
- "Water and Ice in the Andes: A Century of Climate Change, Glacier Disasters, and Hydro-Social Conflicts," invited lecture, University of Portland, Oregon, April 2013

- "Climate Change, Alpine Glaciers, and Water Use," invited presentation for the Alpine Environments Symposium, Oregon State University, January 2013
- "Agua, clima e historia ambiental: o, por qué los historiadores y los políticos deberían comunicarse," invited lecture at the Pontificia Universidad Católica de Chile, Santiago, September 2012
- "Case Study of the Consequences of Glacier Melt in Peru," co-presented with César Portocarrero, Director, Unidad de Glaciología y Recursos Hídricos, Peru, at the "Glacier Melt, Early Snowmelt, and Sea Level Rise" symposium, University of California, Irvine, October 2011
- "Climate Change and National Parks: How Global Warming Discourse has Shaped US Views of International Parks," invited paper and presentation at the "National Parks beyond the Nation" symposium, Colorado State University, September 2011
- "Glaciología y control de lagos glaciares: Fundamentos exitosos y una agenda de urgencia para la adaptación al cambio climático," lecture for government officials in Peru's Ministry of Environment, Lima, March 2011.
- "En la sombra de los nevados derretidos: Cambio climático, agua y sociedad Andina," invited lecture for the Foro Internacional Cambio Climático y Escasez de Agua: Retos Humanos y Sociales en los Andes Peruanos conference, Pontificia Universidad Católica del Perú, Lima, March 2011 (invitation from co-sponsor, University of Copenhagen, Denmark).
- "Water and Ice in the Andes: A Century of Climate Change, Glacier Disasters, and Hydro-Social Conflicts," invited lecture, University of Michigan, Exhibit Museum of Natural History, February 2011.
- "Water Conflicts and Technological Solutions to Climate Change: An Historical Analysis from the Peruvian Andes," invited presentation and workshop leader, University of Michigan Doctoral Program in Anthropology and History, February 2011.
- "Mountain Cryospheric Reservoirs: A Hydrosocial Framework," invited presentation for the Institute for Advanced Sustainability Studies, Potsdam, Germany, August, 2010.
- "Local Communities and Glacial Lake Outburst Flood Mitigation: Lessons from Peru," solicited lecture for the European Geosciences Union, Vienna, Austria, May 2010.
- "Climate, Glaciers, and Social Conflict in the Peruvian Andes," Institute of Geography, University of Zurich, Switzerland, April 2010.
- "The Effects of Technology on Climate Change Adaptation and Water Management in the Peruvian Andes," Hall Center for the Humanities, University of Kansas, Feb. 2010.
- "Glacier Disasters, Climate History, and Social Conflict in the Peruvian Andes," IGERT Climate Change Program, University of Kansas, February 2010.
- "Nazi Mountaineers in the Andes: Origins of Alpine Ecotourism and the Conservation-as-Economic-Development Model," Environmental Studies Colloquium, Washington and Lee University, February 2010.
- "Rethinking the Science of Climate: Water Use, Culture, and Adaptation to Global Warming in the Andes," Wagner Graduate School of Public Service, New York University, November 2009.

- "The Social Dimensions of Water Use and Climate Change in the Andes," Presentation at the Climate Change and Water in the Andes Symposium, University of California, Davis, April 2009.
- "Water and Society when the Glaciers Melt," Washington and Lee University, International Water Awareness Week Lecture Series, September 2008.
- "Glacier Cultures in the Andes: Disasters, Science, and the Social Implications of Climate Change in Peru," Presentation for the Culture and Society Colloquium, Washington and Lee University, March 2008.
- "Climate and History," Invited paper presented at the workshop, "Nature's History: Environmental History for the Twenty-first Century," Temple University, September 2007.
- "The History of Ice: How Glaciers Became an Endangered Species," Environmental Studies Colloquium, Washington and Lee University, April 2007.
- "The End of Ice: Glaciers as an Endangered Species," Energy and Resources Group, University of California, Berkeley, December 2006.
- "Neoliberalized Glaciers: Hydroelectricity, Climate Change, and Natural Disasters in Peru," Geography Department Colloquium, University of California, Berkeley, April 2006.
- "El cambio climático, los glaciares y la política de mitigación de desastres naturales en la Cordillera Blanca," Museo del Instituto Nacional de Cultura, Huaraz, Perú, November 2005.
- "Glacier Hazard Zones: Living With Avalanches and Outburst Floods in Peru's Cordillera Blanca," Tropical Glaciology Group, University of Innsbruck, Austria, October 2004.
- "Los nevados y lagunas en la vida histórica del Callejón de Huaylas," Museo del Instituto Nacional de Cultura, Huaraz, Perú, April 2004.
- "Vivir con glaciares: La influencia del clima en la sociedad y en la política peruana," Pontificia Universidad Católica del Perú, Lima, April 2004.
- "El clima, los glaciares y el estado peruano, 1941-1960," undergraduate history class, Pontificia Universidad Católica del Perú, Lima, April 2004.
- "The United States in the Latin American Mentality," New College, San Francisco, California, December 2002.
- "La influencia Mayangna en la historia de la Costa Atlántica Nicaragüense," Universidad Centroamericana, Managua, Nicaragua, July 1999.

#### **CONFERENCE PRESENTATIONS** *(all papers/presentations sole-authored unless otherwise noted)*

- Mark Carey**, Jordan Barton, and Sam Flanzer, "Glacier Protection Campaigns – What Do They Really Save?" paper presented at the Cascadia Environmental History Workshop, Virtual, September 2020.
- Alina Motschmann, Christian Huggel, **Mark Carey**, and Angela Thuer, "Analyzing impacts of mountain cryosphere change through a Loss and Damage perspective – a case

study from Peru," presentation, International Mountain Conference, Innsbruck, Austria, September 2019.

Alina Motschmann, Christian Huggel, and **Mark Carey**, "Analyzing impacts of mountain cryosphere change through a Loss and Damage perspective – a case study from Peru," poster presentation, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2019.

Christian Huggel, **Mark Carey**, Adam Emmer, Holger Frey, Noah Walker-Crawford, and Ivo Wallimann-Helmer, "Cryosphere risks: an opportunity for climate litigation and climate justice?" poster presentation, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2018.

Veruska Muccione, Christian Huggel, **Mark Carey**, Rachel James, Christine Jurt, and Reinhard Mechler, "A Systematic Review of Loss and Damage in the Mountain Cryosphere," poster presentation, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2018.

Christian Huggel, **Mark Carey**, Adam Emmer, Holger Frey, Noah Walker-Crawford, and Ivo Wallimann-Helmer, "Anthropogenic climate change and glacier lake outburst flood risks: the climate litigation case of Huaraz, Peru," poster presentation, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2018.

"Science, Collaboration, and Applied Environmental History: Opportunities, Pitfalls, and Challenges," roundtable discussion/presentation, American Society for Environmental History annual meeting, Riverside, CA, March 2018.

M. Vuille, M. Huss, B. Bookhagen, C. Huggel, D. Jacobsen, R.S. Bradley, J.J. Clague, W. Buytaert, **Mark Carey**, Antoine Rabatel, D.R. Cayan, G. Greenwood, B.G. Mark, A.M. Milner, R. Weingartner, M. Winder, "Towards mountains without permanent snow and ice – Impacts and challenges for adaptation," paper presented at the American Geophysical Union annual meeting, New Orleans, LA, December 2017.

"Diálogos interdisciplinarios sobre cambio climático," roundtable discussion/presentation at the Foro Internacional de Ciencias Sociales: Diálogos Interdisciplinarios sobre el Cambio Climático, Desastres y Gobernanza, Cusco, Peru, August 2017.

"Requerimientos mínimos para implementar proyectos multipropósitos en los ecosistemas de montaña," roundtable discussion/presentation at the Foro Internacional de Ciencias Sociales: Diálogos Interdisciplinarios sobre el Cambio Climático, Desastres y Gobernanza, Cusco, Peru, August 2017.

"Mummies and Mammoths Melting from Ice: Anthropocene Impacts on History, Archaeology, and Perceptions of the Future," paper presented at the American Society for Environmental History Annual Meeting, Chicago, April 2017.

Christian Huggel, **Mark Carey**, Holger Frey, Christine Jurt, Reinhard Mechler, Alina Motschmann, and Luis Vicuña, "Disruptions in adaptation of sudden-onset and slow-onset risks: insights from a local case in the Andes of Peru for global policies," poster presentation, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2017.

Adam Emmer, Noah Walker-Crawford, **Mark Carey**, Christian Huggel, Roda Verheyen, and Ivo Wallimann-Helmer, "Climate change and diverse dimensions of glacial lake outburst floods (GLOFs): Lake Palcacocha case study, Peru," poster

presentation, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2017.

Bryan G. Mark, Jeffrey M McKenzie, Michel Baraer, Pablo Lagos, Laura Lautz, **Mark Carey**, Jeff Bury, Ryan Crumley, Oliver Wigmore, and Lauren Dorothy Somers, "Glacier loss and emerging hydrologic vulnerabilities in the Peruvian Andes," Presentation at the American Geophysical Union Annual Meeting, San Francisco, December 2015.

"An Environmental History of Icebergs in the North Atlantic," paper presented to the Cascadia Environmental History Collaborative Retreat, Eatonville, WA, September 2014.

B.G. Mark, M. Baraer, K.I. Huh, **M. Carey**, A. French, J. Bury, K. Young, J. McKenzie, A. Eddy, A. Fernandez and Oliver Wigmore, "From glaciers to the desert: Assessing hydrologic change and social vulnerability across a tropical Andean waterscape," presented at the 71<sup>st</sup> Eastern Snow Conference, Boone, NC, June 2014.

Fabian Drenkhan, Christian Huggel, **Mark Carey**, Adam French, and Luzmila Dávila, "Present and Future Water Resources Supply and Demand in the Central Andes: A Comprehensive Review with Focus on the Cordillera Blanca, Peru," presentation at the Third International Climate Change Adaptation Conference, Fortaleza Ceará, Brazil, May 2014.

Graham McDowell, **Mark Carey**, Christian Huggel, and Jeffrey S. Kargel, "Social Dimensions of Vulnerability to Glacier-Hydrology Hazards in Peru and Nepal," poster presentation, European Geosciences Union General Assembly, Vienna, Austria, April 2014.

"Apocalyptic Climate Change Narratives and the Ecologically Noble Indian: Historical Perspectives from the Andes," American Society for Environmental History Annual Meeting, San Francisco, March 2014.

Session organizer and presenter for roundtable on "Crossing Academic Divides: How to Bring Undergraduate Students into Environmental History Research," American Society for Environmental History Annual Meeting, San Francisco, March 2014 (co-presented with undergraduate student Jaclyn Rushing).

"Glacier Runoff and Human Vulnerability to Climate Change: The Case of Export Irrigation in Peru," Paper presented at the American Geophysical Union Annual Meeting, San Francisco, December 2013. (*invited oral presentation*)

"Life-Giving Places in the Andes: How Narratives of Geography, Environment, and Disease Spawned Nineteenth-Century Health Resorts in South America," Paper presented at the American Historical Association Annual Meeting (joint with Conference on Latin American History), New Orleans, January 2013.

"Parques nacionales, montañistas y el desarrollo económico en América Latina," Paper presented at the 6th symposium of the Sociedad Latinoamericana y Caribeña de Historia Ambiental, Villa de Leyva, Colombia, June 2012 (paper co-authored with undergraduate student Kelsey Ward).

"Historians and Climate Change," Roundtable presentation, Organization of American Historians Annual Meeting, Milwaukee, Wisconsin, April 2012.

- "Climate, Culture, and History in Latin America: A Social Turn in the Weather?" Paper presented at the American Historical Association Annual Meeting (joint with Conference on Latin American History), Chicago, January 2012.
- "Medicinal Mountains and Curative Climates: How Physicians Made the Andes Sacred," Paper presented (and invited panel organizer) at the American Historical Association Annual Meeting, Boston, MA, January 2011.
- "Climate Crisis and Energy Transition: Lessons from History and Insights from the Andes," Presentation at the Annual Meeting of the American Society for Environmental History, Portland, Oregon, March 2010.
- "Climbing for Science: German Scientist-Mountaineers, Disaster Prevention, and Society in the Peruvian Andes, 1932-1952," Paper presented at the Latin American Studies Association Congress, Rio de Janeiro, Brazil, June 2009.
- "Consuming the Weather: Climate, Health, and Tourism in the Caribbean, 1650-1950," Paper presented at the conference, "Climate and Cultural Anxiety: Historical and Social Perspectives," Colby College, April 2009.
- "On Top of the Andes: International Mountaineering, Science, and Environment in Peru," Conference on Latin American History, Andean Studies Committee, American Historical Association Annual Meeting, New York, January 2009.
- "Engineering the Melting Andes: Climate, Glaciers, and the Control of Peru's Santa River Watershed," Annual Meeting of the American Society for Environmental History, St. Paul, Minnesota, March 2006.
- "Inhabiting Glacier Hazard Zones in Peru's Cordillera Blanca, 1962-1978," Wengen Workshop on Global Change Research, "Mountain Glaciers and Society: Perception, Science, Impacts, and Policy," Switzerland, October 2004.
- "Confronting Climate Change, Glacier Retreat, and Outburst Floods in Peru: Local People's Views of Scientists and Their Science," Annual Meeting of the American Meteorological Society, Seattle, January 2004. (*Invited presentation*)
- "Glacier Politics: State Responses to Glacier Retreat in Peru Since 1941," American Anthropological Association Annual Meeting, Chicago, November 2003.
- "Living With Glaciers: Social Impacts of Climate Change and Glacier Retreat in Peru's Cordillera Blanca," Young Scientists Global Change Conference, Trieste, Italy, November 2003. (*Invited presentation*)
- "La política glaciár: El estado peruano y las amenazas glaciares de la Cordillera Blanca," [Glacier Politics: The Peruvian State and Glacier Threats in the Cordillera Blanca, 1941-1962], International History Students Conference, Pontificia Universidad Católica del Perú, Lima, October 2003. Winner: Franklin Pease Award, Best Conference Paper
- "Glacial Lakes, People, and History in the Peruvian Andes," "Mountains: Sources of Water, Sources of Knowledge" Conference, University Institute Kurt Bösch, Sion, Switzerland, October 2002. (*Invited presentation*)
- "Globalizing Glaciers: An Environmental and Social History of Climate Change in Peru," participant at University of California, Berkeley, Institute of International Studies Dissertation Workshop, 2002

- "Separate but Integrated: Land, Markets, and Identity among Nicaragua's Mayangna Indians," "Latin America: History, Society, and Culture" Conference, San Francisco State University, April 2001
- "Creating Remoteness: Geographical Obstacles and Indigenous Resistance in Nicaragua's BOSAWAS Nature Reserve," American Society for Environmental History Annual Conference, Tacoma, WA, March 2000
- "Natural Resources, Markets, and Land Use Change Among Nicaragua's Mayangna Indians, 1800 to the Present," Annual Meeting of the Rocky Mountain Council on Latin American Studies, Missoula, Montana, 1998

## **UNIVERSITY-WIDE GRANTS AND FELLOWSHIPS**

### **University of Oregon**

- Resilience Initiative Seed Funding (\$156,226), Office of the Vice President of Research and Innovation, University of Oregon, for collaborative (with Dave Sutherland) postdoctoral fellowship on "Resilience, ice and society: Probing the timescales of human interactions with cryospheric change," 2019-2022
- Williams Fund Instructional Grant (\$16,000) for collaborative/team teaching on "Arctic Icebergs: Piloting a Multidisciplinary, Problem-Solving Pedagogy," with Dave Sutherland and Casey Shoop, 2019-2020
- Interdisciplinary Environmental Studies Seed Grant (\$3,000), Environmental Studies Program, for "Interdisciplinary Ice Connections—a Field-Based Colloquium," by Holly Moulton, Hayley Brazier, Dave Sutherland, and Mark Carey, 2018
- Program Grant (\$5,000), College of Arts and Sciences, to fund conference on "Pacific Environmental Histories of the Ocean, Water, and Air — Connecting Research in Oregon and Australasia and Positioning UO as a Leader in the Pacific," by Mark Carey and Ryan Jones, 2017-2018
- Global Oregon Faculty Collaboration Award (\$2,500) for collaborative research with Fernando Purcell, Pontificia Universidad Católica, Chile, 2015-2016
- Williams Council Instructional Grant (\$25,500) for collaborative teaching with Kathy Lynn in Environmental Studies (UO) and student conference, 2013-2014
- Oregon Humanities Center Faculty Research Fellowship, Fall 2012
- College of Arts and Sciences Grant for Student Conference on "Indigenous Peoples, Climate Change, and Environmental Knowledge," 2011-2012
- Americas in a Globalized World Initiative (Big Idea), Course Development Grant, 2011
- New Junior Faculty Award, 2011

### **Washington and Lee University**

- Lenfest Grant, 2009
- Mednick Memorial Fellowship, 2009 (declined)
- Glenn Grant, 2007 and 2008

### **University of California, Davis**

- Chancellor's Teaching Fellowship, University of California, Davis, 2004-2005
- Dean's Graduate Travel Scholarship, 2003
- Roland Marchand Research Fellowship, 2003



Agricultural History Center Dissertation Fellowship, 2002-2003  
Hubert H. and Barbara P. Wakeham Research Fellowship, 2002  
Department of History Summer Research Fellowship, 2001  
Department of History Travel Award, 2000  
Graduate Student Association Travel Scholarship, 2000  
Borderlands Fellowship, 1999-2000

### **University of Montana**

A.B. Hammond Fellowship, University of Montana, 1997

## **PROFESSIONAL SERVICE**

### **Editorial Board Memberships:**

*Hispanic American Historical Review*  
*Historia Ambiental Latinoamericana y Caribeña (HALAC)*  
*Cambio climático en los Andes tropicales / Climate Change in the Tropical Andes*  
*Revista de Glaciares y Ecosistemas de Montaña*  
*Social Sciences*

### **Manuscript review, journal articles:**

*Agricultural History*  
*Annals of the American Association of Geographers*  
*Anthropocene Review*  
*Applied Geography*  
*Arctic*  
*Bulletin of the American Meteorological Society*  
*Climatic Change*  
*Environment and History*  
*Environment and Planning E: Nature and Space*  
*Environmental History*  
*Environmental Humanities*  
*Environmental Science & Policy*  
*Geography Compass*  
*GeoHumanities*  
*Global and Planetary Change*  
*Global Environmental Change*  
*Hispanic American Historical Review*  
*History Compass*  
*History of Meteorology*  
*Humanities*  
*International Journal of Environmental Research and Public Health*  
*Journal of Ecology and the Natural Environment*  
*Journal of Ethnobiology*  
*Journal of Historical Geography*  
*Journal of Latin American and Caribbean Anthropology*  
*Journal of Maps*  
*Journal of Northern Studies*  
*Latin American Politics and Society*  
*Mexican Studies/Estudios Mexicanos*  
*Natural Hazards*

*Nature*  
*Nature Climate Change*  
*Nature Communications*  
*Political Geography*  
*Professional Geographer*  
*Progress in Physical Geography*  
*Regional Environmental Change*  
*Religions*  
*Resilience: A Journal of the Environmental Humanities*  
*Revista Andina*  
*Revista de Glaciares y Ecosistemas de Montaña*  
*Revista Historia Iberoamericana*  
*Science, Technology, and Human Values*  
*Social Sciences*  
*Springer Plus*  
*Transactions of the Institute of British Geographers*  
*Water*  
*Water History*  
*Weather, Climate, and Society*  
*Wiley Interdisciplinary Reviews: Climate Change (WIREs Climate Change)*  
*World Development*

#### **Manuscript review, books:**

Brill  
 Cambridge University Press  
*Intergovernmental Panel on Climate Change (IPCC)*, Working Group II, 4<sup>th</sup> (2007)  
 and 5<sup>th</sup> (2014) assessment reports, multiple chapters, multiple drafts  
 Oxford University Press  
 Palgrave Macmillan  
 Polity Press  
 Prentice Hall  
 Princeton University Press  
 Potsdam Inst. for Climate Impact Research  
 Routledge  
 SAGE Books  
 University of Nebraska Press  
 University of Oklahoma Press  
 University of Washington Press

#### **Grant proposal review:**

National Science Foundation (NSF), General Panel Review Member (5 panels),  
 2015 - present  
 National Science Foundation, proposal review for various programs:  
   NSF – Arctic Social Sciences Program  
   NSF – Coupled Natural and Human Systems  
   NSF – Geomorphology and Land-Use Dynamics  
   NSF – Geosciences  
   NSF – Partnerships for International Research and Education (PIRE)  
   NSF – Science, Technology, and Society  
 Comisión Nacional de Investigación Científica y Tecnológica de Chile (CONICYT)

Concurso de Proyectos Interdisciplinarios, Pontificia Universidad Católica del Perú  
 European Research Council (ERC)  
 National Geographic Society  
 Netherlands Institute for Advanced Study in the Humanities and Social Sciences  
 Next Generation of Polar Researchers  
 Reinforcing Women in Research (REWIRE), Austria  
 Social Science Research Council  
 Swiss National Science Foundation  
 The Netherlands Organisation for Scientific Research (NWO), Council for the  
 Humanities  
 Wellcome Trust (UK), Humanities and Social Sciences Division

### **Leadership and Service Roles:**

Contributing Author, Inter-Governmental Panel on Climate Change (IPCC) *Special Report on the Ocean and Cryosphere in a Changing Climate*, 2017-2019  
 Representative of the International Association of Cryospheric Sciences to the International Union of Geodesy and Geophysics Working Group on History, 2013-2019  
 Member of the History of Science Committee, American Meteorological Society, 2015-2018  
 Advisory Group for Research Evaluation Member, Pontificia Universidad Católica del Perú, invited by Vice President for Research to evaluate and advise the Office of the Vice President for Research on grants and faculty research at the university, 2013-2018  
 Co-Convener, International Union of Geodesy and Geophysics (IUGG) Symposium "Revolutions in Earth Sciences: from Different Spheres to a Common Globe," for IUGG Union Symposia, Prague 2015  
 Co-Convener, International Association of Cryospheric Sciences (IACS) Symposium on "Challenges in Cryospheric Sciences: Past, Present and Future," for International Union of Geodesy and Geophysics (IUGG) Symposium, Prague, 2015  
 Co-Founder and Co-Director, Transdisciplinary Andean Research Network (TARN), a collaborative, international, and interdisciplinary research group involving faculty and students working on climate change issues in the Andes, 2012-  
 Chair, Selection Committee for Elinor Melville Prize for Best Book in Latin American Environmental History (Conference on Latin American History), 2013-2014  
 Expert Reviewer, Fifth Assessment (2014) of the Inter-Governmental Panel on Climate Change (United Nations and World Meteorological Organization), Working Group II, 2012-2013  
 Contributing Author, Working Group II, chapters 18 and 26, Fifth Assessment Report (2014) of the Inter-Governmental Panel on Climate Change, 2011-2013  
 Selection Committee Member for Elinor Melville Prize for Best Book in Latin American Environmental History (Conference on Latin American History), 2011-2013  
 Invited Expert Reviewer for Zero Order Draft of Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report, 2011

Keynote speaker and faculty participant, Graduate Student Workshop, Geography Institute, University of Zurich, Switzerland, November 2010  
Elected delegate to co-prepare and present "Síntesis de la conferencia científica: adaptándonos a un mundo sin glaciares," workshop conclusions to Peruvian government officials, NGOs, and academics, Lima, July 2009  
Conference-Workshop Presentations, Field Trip Leader, and Working Group Member at "Adaptándonos a un mundo sin glaciares," Conference-Workshop, Peru, July 2009  
Outstanding Faculty Awards Application/Nomination Reviewer, State Council of Higher Education for Virginia, 2009 (for 2010 awards)  
Committee Member, Elinor Melville Prize for Best Book in Latin American Environmental History (Conference on Latin American History), 2007  
Expert Reviewer, Fourth Assessment (2007) of the Inter-Governmental Panel on Climate Change (United Nations and World Meteorological Organization), Working Group II, 2005-2007  
Editor, Andes section of Environmental History of Latin America website (<http://www.stanford.edu/group/LAEH/index.html>), 2001-2006

## **MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**

American Historical Association  
American Society for Environmental History  
Conference on Latin American History  
Glaciers and Permafrost Hazards in Mountains (GAPHAZ), a Scientific Working Group of the International Association of Cryospheric Sciences (IACS)  
International Commission on History of Meteorology  
International Association of Cryospheric Sciences  
Society for Latin American and Caribbean Environmental History (SOLCHA)  
The Mountain Forum