

## KEVIN J. ANCHUKAITIS

APPOINTMENTS	UNIVERSITY OF ARIZONA	Tucson, AZ	
	2021 – Professor, School of Geography, Development, and Environment		
	Joint Appointment, Laboratory of Tree-Ring Research		
	Joint Appointment, Department of Geosciences		
	Chair, Graduate Interdisciplinary Program in Global Change		
	Associate, Center for Climate Adaptation Science and Solutions (CCASS)		
	Affiliated Faculty, Latin American Studies		
	2015 – 2021 Associate Professor, School of Geography, Development, and Environment		
	LAMONT DOHERTY EARTH OBSERVATORY OF COLUMBIA UNIVERSITY	New York, NY	
	2012 – Adjunct Senior Research Scientist		
	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Woods Hole, MA	
	2012 – 2015 Assistant Scientist		
	LAMONT DOHERTY EARTH OBSERVATORY OF COLUMBIA UNIVERSITY	New York, NY	
	2010 – 2012 Lamont Assistant Research Professor		
	2009 – 2010 Doherty Associate Research Scientist		
	2007 – 2009 Lamont-Doherty Postdoctoral Research Fellow		
	EDUCATION	UNIVERSITY OF ARIZONA	Tucson, AZ
		2007 Ph.D., Geosciences	
		UNIVERSITY OF TENNESSEE	Knoxville, TN
		2002 M.S., Geography	
	GEORGETOWN UNIVERSITY	Washington, DC	
	1998 B.S., ( <i>cum Laude</i> ) Science, Technology, & International Affairs		
	Major Field: Environmental Science (with Honors)		
	Foreign study at University of Costa Rica, Institute for Tropical Studies (Golfito), 1996 – 1997		
PUBLICATIONS	<i>Submitted or in Revision</i> († = postdoctoral author, ‡ = student author)		
	† Leland, C., N. Davi, R. D’Arrigo, L. Andreu-Hayles, A. Pacheco-Solana, J. Edwards, <b>K.J. Anchukaitis</b> , T. Porter, M.F.J. Pisaric, M. Mant, T. Galloway, and R. Oelkers, Tree-ring Evidence of the Elusive 1959 Summer Cold Event in Northwestern North America, submitted, 2024		
	‡ Harris, K.D., J.E. Tierney, S. Munoz, <b>K.J. Anchukaitis</b> , Climate variability in the Gulf of California over the last 1300 years, submitted, 2024		

- Nguyen-Xuan Hau, M. Sano, T. Nakatsuka, **K.J. Anchukaitis**, Thanh Ngo-Duc, Ying-Shuo Chang, Shin-Hao Chen, Ssu-Hao Wang, Hsin-Lin Wei, Zhen Li, Le-Thi Thuong, Tran Binh Minh, I-Ching Chen, Upstream rainout processes govern tree-ring oxygen isotopes with implications for monsoon and tropical hydroclimate reconstruction, submitted, 2023
- Williams, A.P., K.A. McKinnon, **K.J. Anchukaitis**, A. Gershunov, A.M. Varuolo-Clarke, R.E.S Clemesha, H. Liu, Anthropogenic influence on extreme cool-season precipitation has not yet emerged across the western United States, *Journal of Geophysical Research – Atmospheres*, in revision, 2024

*Peer-Reviewed and Invited Papers* († = postdoctoral author, ‡ = student author)

- [137] Cook, B.I., E.R. Cook, **K.J. Anchukaitis**, D. Singh, Characterizing the 2010 Russian heatwave-Pakistan flood concurrent extreme over the last millennium using the Great Eurasian Drought Atlas, *Journal of Climate*, doi:10.1175/JCLI-D-23-0773.1, 2024
- [136] Esper, J. J.E. Smerdon, **K.J. Anchukaitis**, K. Allen, E.R. Cook, R. D’Arrigo, S. Guillet, F.C. Ljungqvist, F. Reinig, L. Schneider, M. Sigl, M. Stoffel, M. Trnka, R. Wilson, U. Buntgen, The IPCC’s reductive Common Era temperature history, *Nature Communications Earth & Environment*, 5, 222, doi:10.1038/s43247-024-01371-1, 2024
- [135] **Anchukaitis, K.J.**, R. Touchan, D.M. Meko, D. Kherchouche, S. Slimani, F. Sivrikaya, R. Ilmen, I. Mitsopoulos, J. Stephan, J. Attieh, F. Hasnaoui, J.J. Camarero, R. Sánchez-Salguero, F. Guibal, A. Piermattei, A. Christou, J. Krcmaric, B.I. Cook, Enhancing spatiotemporal reconstructions of hydroclimate variability across the Mediterranean during the last millennium, *Climate Dynamics*, doi:10.1007/s00382-024-07166-6, 2024
- [134] † King, K.E., E.R. Cook, **K.J. Anchukaitis**, B.I. Cook, J.E. Smerdon, R. Seager, G. Harley, B. Spei, The increasing prevalence of hot drought across western North America since the 16th century, *Science Advances*, 10, 4, doi:10.1126/sciadv.adj42, 2023
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- [132] Herrera, D.A., B.I. Cook, J. Fasullo, **K.J. Anchukaitis**, M.J. Alessi, C.J. Martinez, C.P. Evans, X. Li, K.N. Ellis, R. Mendez-Tejeda, T.R. Ault, A. Centella-Artola, T.S. Stephenson, M.A. Taylor, Observed changes in hydroclimate attributed to human forcing, *PLOS Climate*, 2(11): e0000303, doi:10.1371/journal.pclm.0000303, 2023
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- [130] Burke, A., H. Innes, L. Crick, **K.J. Anchukaitis**, M. Byrne, W. Hutchison, J. McConnell, K. Moore, J. Rae, M. Sigl, and R. Wilson, High sensitivity of summer temperatures to stratospheric sulfur loading from volcanoes in the Northern Hemisphere, *Proceedings of the National Academy of Sciences*, 120, 47, e2221810120, doi:10.1073/pnas.2221810120, 2023
- [129] ‡ King, J., J.E. Tierney, M. Osman, E. Judd, **K.J. Anchukaitis**, DASH: A MATLAB Toolbox for Paleoclimate Data Assimilation, *Geoscientific Model Development*, 16, 5653–5683, doi:10.5194/gmd-16-5653-2023, 2023
- [128] Zhu, F., J. Emile-Geay, **K.J. Anchukaitis**, N. McKay, S. Stevenson, Z. Meng, A pseudoproxy emulation of the PAGES 2k database using a hierarchy of proxy system models, *Scientific Data*, 10, 624, doi: 10.1038/s41597-023-02489-1, 2023
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- [3] Evans, M.N., B.K. Reichert, A. Kaplan, **K.J. Anchukaitis**, E.A. Vaganov, M.K. Hughes, and M.A. Cane, A forward modeling approach to paleoclimatic interpretation of tree-ring data, *Journal of Geophysical Research*, 111, G03008, doi:10.1029/2006JG000166, 2006.
- [2] **Anchukaitis, K.J.**, M.N. Evans, A. Kaplan, E.A. Vaganov, M.K. Hughes, H.D. Grissino-Mayer, and M.A. Cane, Forward modeling of regional-scale tree-ring patterns in the southeastern United States and the recent emergence of summer drought stress, *Geophysical Research Letters*, 33(4), L04705, doi:10.1029/2005GL025050, 2006.
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*arXiv Preprints*

Karnauskas, K.B., J.P. Donnelly, **K.J. Anchukaitis**, An intercomparison of monthly surface air temperature on islands and proximate moorings across the tropical Indo-Pacific, arXiv:[1707.04603](https://arxiv.org/abs/1707.04603), 2017.

*Conference Proceedings and Reports*

Hessl, A.E., N. Pederson, O. Byambasuran, **K.J. Anchukaitis**, and C. Leland, How Unusual Was the 21st Century Drought in Mongolia? Placing Recent Extremes in a 2000-Year Context, *Proceedings of the Trans-disciplinary Research Conference: Building Resilience of Mongolian Rangelands*, Ulaanbaatar, Mongolia, [doi:10.25675/10217/181727](https://doi.org/10.25675/10217/181727), 80–86, 2015.

Cook, E.R., R.D. D'Arrigo, and **K.J. Anchukaitis**, ENSO Reconstructions from Long Tree-Ring Chronologies: Unifying the Differences? in *Workshop on ENSO reconstructions for the past 500 years*, edited by H. F. Diaz, MEDIAS-FRANCE/METEO-FRANCE/NOAA, Moorea, French Polynesia, 2008.

MENTORING

*Postdoctoral*

Laia Andreu-Hayles, **2009–2012**, Postdoctoral Fellow and Marie Curie Postdoctoral Fellow, Lamont Doherty Earth Observatory (co-mentor with Rosanne D'Arrigo). Currently Lamont Associate Research Professor, Lamont-Doherty Earth Observatory of Columbia University.

Dario Martin-Benito, **2012–2013**, Postdoctoral Scientist, Lamont Doherty Earth Observatory. Currently Senior Scientist (*Científico Titular*) at the Forest Research Center, Instituto Nacional de Investigación, Madrid, Spain

Daniel Griffin, **2013–2014**, WHOI Postdoctoral Scholar and NOAA/UCAR Climate and Global Change Postdoctoral Fellowship, Woods Hole Oceanographic Institution. Currently Associate Professor, University of Minnesota.

Bethany Coulthard, **2016–2018**, Postdoctoral Research Scientist, Laboratory of Tree-Ring Research and School of Geography and Development, University of Arizona. Currently Marine Projects Supervisor, Cowichan Tribes, British Columbia

Nicolas Gauthier, **2019–2021**, Postdoctoral Research Scientist, Laboratory of Tree-Ring Research and School of Geography, Development, and Environment, University of Arizona. Currently Assistant Curator (tenure track), AI for Cultural and Biological Diversity, Florida Museum of Natural History, University of Florida

*Graduate Students*

Gloria Jimenez, **Ph.D. 2018**, Geosciences, University of Arizona (co-advisor with Julie Cole, 2017–2018)

Jessie Pearl, **Ph.D. 2019**, Geosciences, University of Arizona (2014–2019)

Talia Anderson, **M.A. 2020**; Ph.D., Geography, University of Arizona (2017–present)

Julie Edwards, **M.A. 2020**; Ph.D., Geography, University of Arizona (2018–present)

Kira Harris, **M.A. 2022**, Ph.D., Geography, University of Arizona (2020–present)

Jonathan King, **Ph.D. 2022**, Geosciences, University of Arizona (2018–2022)

Ana Isabel González Mendez, M.A., Geography, University of Arizona (2022–present)

*Dissertation, Thesis Committee, or External Reviewer*

Petra Breitenmoser, **2013**, external referee, Ph.D., University of Bern, Switzerland

Kristina Seftigen, **2014**, *fakultetsopponent*, Ph.D., Gothenburg University, Sweden

Brewster Malevich, **2017**, committee member, Ph.D., Geosciences, University of Arizona

Diego Pons, **2017**, external committee member, Ph.D., University of Denver

Patrick Murphy, **2018** committee member, M.S., Geography, University of Arizona  
 Sarah Frederick, **2018** committee member, M.S., Geography, University of Arizona  
 Grace Windler, **2018** committee member, M.S., Geosciences, University of Arizona  
 Chris Zemp, **2018**, committee member, M.S., Geography, University of Arizona  
 Anne Billingsley, **2019**, committee member, Ph.D., Geosciences, University of Arizona  
 Grace Windler, **2021**, committee member, Ph.D., Geosciences, University of Arizona  
 Emma Reed, **2021**, committee member, Ph.D., Geosciences, University of Arizona  
 Lucie Luecke, **2021**, external examiner, Ph.D., School of Geosciences, University of  
 Edinburgh  
 Zack Grzywacz, **2021**, external committee member, M.S., Geography, West Virginia  
 University  
 William Tintor, **2021**, committee member, Ph.D., Geography, University of Arizona  
 Manuel Hernandez, **2022**, external committee member, Ph.D., Geography, University of  
 North Carolina  
 Aria Blumm, **2022**, committee member, M.S., Geosciences, University of Arizona  
 Dervla Meegan Kumar, **2022**, committee member, Ph.D., Geosciences, University of Arizona  
 Andrew Zimmer, **2022**, committee member, Ph.D., Geography, University of Arizona  
 Holly Thomas, **2023**, committee member, M.S., Geosciences, University of Arizona  
 Brandon Strange, **2023**, committee member, Ph.D., School of Natural Resources and the  
 Environment, University of Arizona  
 Asiya Badarunnisa Sainudeen, committee member, Ph.D., Geosciences, University of Arizona  
 Mudith Weerabaddana, committee member, Ph.D., Geosciences, University of Arizona  
 Talitha Hope Neesham-McTiernan, committee member, Ph.D., Geography, University of  
 Arizona

#### *Undergraduates and Interns*

Kristin Campbell, **2010**, Climate and Society Intern, Columbia University (co-mentor with  
 Ben Cook)  
 Hannah Aizenman, **2011**, Google Summer of Code, City University of New York and  
 Columbia University (co-mentor with Julien Emile-Geay and Jason Smerdon)  
 Diego Pons, **2011**, US State Department and LASPAU Global Change Professional Fellow  
 (mentor and host)  
 Liora Hostyk, **2012**, Lamont-Doherty Earth Observatory Summer Internship (NSF REU),  
 Barnard College and Columbia University (co-mentor with Ben Cook and Richard Seager).  
 Manuel Hernandez, **2013, 2014**, WHOI Summer Student Fellow and UCAR/NCAR SOARS  
 protégé, Texas A&M University (co-mentor with Caroline Ummenhofer).  
 Mariel Herzog, **2013**, Lamont-Doherty Earth Observatory Summer Internship (NSF REU),  
 University of Colorado (co-mentor with Allegra LeGrande)  
 Laura Fleming, **2013, 2014–2015**, Northeastern University Co-op Semester, Visiting  
 Student at Woods Hole Oceanographic Institution  
 Melissa Schwan, **2016**, University of Arizona, Department of Geosciences, Senior Honors  
 Thesis  
 Andrea Lara-Garcia, **2020–2021**, University of Arizona, School of Geography, Development,  
 and Environment, Senior Honors Thesis  
 Zanubia Sethuraju, **2021–2022**, University of Arizona, School of Geography, Development,  
 and Environment, undergraduate research intern and Senior Honors Thesis  
 Ifeoluwa Godwin Ale, **2022–**, University of Arizona, College of Science, Computer Science,  
 undergraduate research programmer  
 Francisca Molina, **2023–**, University of Arizona, College of Social and Behavior Sciences,  
 Environmental Studies and Law, undergraduate research assistant



Natalianna Ferrara, **2024**– University of Arizona, College of Social and Behavior Sciences,  
Anthropology and History, undergraduate research assistant

## TEACHING

UNIVERSITY OF ARIZONA

Tucson, AZ

### **School of Geography, Development, and Environment**

GEOG 170A1 *Introduction to Physical Geography* (Spring)

GEOG 230 *Our Changing Climate* (Autumn)

GEOG 430/530 *The Climate System* (Spring)

GEOS 599-010 *Models of the North Atlantic jet (Independent Study)* (Spring 2018)

GEOG 696C *Spatiotemporal Data Analysis* (Autumn 2016, 2019, 2021, 2023)

GEOG 696C *State-of-the-Art in Climate Science* (Autumn 2020)

GEOG 696F *Advanced Methods and Techniques* (Autumn 2024)

GEOG 696M *Hydroclimate: Past, Present, and Future* (Autumn 2017)

GEOG 699-013 *Topics in Paleobiogeography (Independent Study)* (Spring 2016)

GEOG 699-013 *Statistics for Biogeography (Independent Study)* (Spring 2017)

MIT-WHOI JOINT PROGRAM IN OCEANOGRAPHY

Cambridge and Woods Hole, MA

### **Marine Geology and Geophysics**

12.708 *Topics in Paleoceanography* (Autumn 2013)

COLUMBIA UNIVERSITY

New York, NY

### **Masters in Sustainability Management Program**

SUMA K4230 *The Earth's Climate System* (Spring 2011, Spring 2012)

### **Department of Earth and Environmental Science**

EESC V2011 *Earth's Environmental Systems: The Climate System* (Spring 2012)

## GRANTS

### *Current and Recent*

- “Intertropical Convergence Zone Variations from Stable Oxygen Isotope Tree-ring Records in the Tropical Americas”, PI: Laia Andreu-Hayles, coPI: **K.J. Anchukaitis** and Diego Pons, NSF P4CLIMATE, AGS-2303525, 02/2024-01/2027, \$192,386
- “Pilot dendrochronology studies in the Maya Biosphere Reserve”, PI: **K.J. Anchukaitis**, University of Arizona Social and Behavioral Science Research Institute (SBSRI), Faculty Small Grant, 04/2023-03/2024, \$4,656
- “Indigenous forest management in a non-stationary climate”, PI: Diego Pons, co-PIs: **K.J. Anchukaitis**, M. Taylor, R. DeRose, N. vonHedemann, R. Trosper, NSF Dynamics of Integrated Socio-Environmental Systems (DISES), 01/2023-06/2027, \$1,599,397
- “MRI2: Acquisition of a Mini Carbon Dating System for Multi-Millennial, Multi-User Sequences of Annually Resolved <sup>14</sup>C and Other High Precision Applications”, PI: C. Pearson, co-PIs: B. Black, **K.J. Anchukaitis**, and K. Thirumalai, NSF Major Research Instrumentation Program (MRI), 09/2022-08/2025, \$2,032,379
- “Tracking Divergent Warming and Tree Growth at Arctic Treeline”, PI: Rosanne D’Arrigo, co-PIs: **K.J. Anchukaitis** and Benjamin Gaglioti, NSF Arctic Natural Sciences, ANS-2124889, 03/2022-02/2025, \$203,991
- “High-Resolution Reconstruction of Last Millennium North American Arctic Temperatures Using Quantitative Wood Anatomy”, PI: **K.J. Anchukaitis**, coPIs: Adam Csank and Stephanie McAfee, NSF Paleoclimate Perspectives on Climate Change (P2C2), AGS-2102993, 08/2021-07/2024, \$471,704
- “Rainfall variability, extreme events, and vulnerability in heterogeneous social and environmental systems”, PI: **K.J. Anchukaitis**, coPIs: Matthew Taylor, Diego Pons, Tom Evans, Diana Liverman, NSF Human-Environment and Geographical Sciences (HEGS), BCS-2049657, 06/2021 – 05/2024, \$396,593

- “OpenDendro - Advanced Open-source Tools for Paleoenvironmental Reconstruction”, PI: Andy Bunn, coPIs: Edward Cook, **K.J. Anchukaitis**, Tyson Swetnam, NSF Paleoclimate, AGS-2054516, 06/2021-05/2023, No-Cost Extension to 05/2024, \$143,148
- “PaleoCAMP (Paleoclimate training in Climate Archives, Models, and Proxies): A multidisciplinary summer school for graduate students in paleoclimatology”, PI: Jessica Tierney, co-PIs: **K.J. Anchukaitis**, Tripti Bhattacharya, Daniel Ibarra, Kathleen Johnson, Heising-Simons Foundation, 01/2021 – 12/2024, \$425,166
- “Spatiotemporal Variability in Western United States Snowpack During the Common Era”, PI: **K.J. Anchukaitis**, co-PI: Bethany Coulthard, NSF Paleoclimate Perspectives on Climate Change (P2C2), AGS-1803995, 09/01/2018 – 08/31/2021, \$397,055; No-Cost Extension to 08/2023

#### *Completed*

- “Drivers of Oscillations in Western US Cool-Season Precipitation”, PI: Park Williams, coPI: **K.J. Anchukaitis**, California Department of Water Resources, 10/2021 – 9/2022, No-Cost Extension to 09/2023, \$213,182
- “Developing Tree-Ring Based Streamflow Reconstructions for Large and Complex River Basins”, PI: **K.J. Anchukaitis**, co-PI: Bethany Coulthard, NSF Geography and Spatial Sciences, BCS-1759629, 09/01/2018 – 02/28/2022, \$279,672; No-Cost Extension to 03/2023
- “Precision dating of North American medieval megadroughts using cosmogenic radiocarbon spikes in tree-ring chronologies”, PI: **K.J. Anchukaitis**, University of Arizona Social and Behavioral Science Research Institute (SBSRI), Faculty Small Grant, 03/2022-02/2023, \$4,950
- “2000 Years of Variability in the Southern Annular Mode (SAM) from Tree Rings and Ice”, PI: Amy Hessl, co-PIs: **K.J. Anchukaitis**, NSF Paleoclimate Perspectives on Climate Change (P2C2), AGS-1803946, 02/01/2019 – 01/31/2022, \$369,192 (UA Scope: \$149,929); No-Cost Extension to 02/2023
- “A stable isotope dendroclimatology approach toward reconstructing paleoclimate dynamics in Central America”, PIs: Laia Andreu-Hayles and **K.J. Anchukaitis**, Columbia University Climate Center, 12/2020, \$8,360
- “The global climate response to volcanic eruptions in the Last Millennium Reanalysis”, PI: J. Emile-Geay, co-PIs: **K.J. Anchukaitis** and G. Hakim. NOAA Climate Program Office, Climate Monitoring Program and Climate Variability and Predictability Program, NA18OAR4310420, 09/01/2018 – 08/31/2020, \$299,973 (UA Scope: \$64,004)
- “Stable and Radiogenic Isotope Approach to Paleoclimate Dynamics in Central America” PI: **K.J. Anchukaitis**, University of Arizona, Research, Discovery & Innovation (RDI) International Research and Program Development Grant, 07/01/2018-06/30/2019, \$26,510
- “Recent Northeastern United States Temperature Records in the Context of the Late Holocene” PIs: **K.J. Anchukaitis**, Jeff Donnelly, and Neil Pederson, NSF Paleoclimate Perspectives on Climate Change (P2C2), AGS-1304262, 08/2013 – 07/2016 (No Cost Extensions to 07/2019), \$447,183
- “Past Ocean-Atmosphere Variability from Spatiotemporal Patterns of North Atlantic Climate During the Common Era” (with Lamont-Doherty Earth Observatory, PI: Ed Cook), coPIs: **K.J. Anchukaitis**, Rosanne D’Arrigo. NSF Paleoclimate Perspectives on Climate Change (P2C2), AGS-1501856, 05/2015 – 04/2018 (No Cost Extensions to 04/2019), (UA scope: \$93,491)
- “Spatiotemporal Variability of Northwestern North American Temperatures in Response to Climatic Forcing” (with Lamont-Doherty Earth Observatory, PI: Rosanne D’Arrigo), coPIs: **K.J. Anchukaitis**, Laia Andreu-Hayles, Greg Wiles, Rob Wilson, NSF Paleoclimate Perspectives on Climate Change (P2C2), AGS-1501834, 05/2015 – 04/2018 (No Cost Extensions to 04/2019), (UA scope: \$105,155)

- “Water Resource Relevant Hydroclimatic Reconstructions for Western North America” PI: **K.J. Anchukaitis**, Postdoctoral Researcher: Bethany Coulthard. U.S. Geological Survey (G16AC00266), 09/02/2016 – 9/01/2018, \$118,886
- “Reconstructing Changes in Asian Monsoon Circulation during the Last Millennium from Stable Isotopes in Tropical Tree Rings” PIs: **K.J. Anchukaitis**, B.M. Buckley, C. Ummenhofer, NSF Paleoclimate Perspectives on Climate Change (P2C2), AGS-1203818, 8/15/2012 – 8/14/2015 (No Cost Extension to 08/2017), \$688,279
- “Reconstructing Droughts in the Tropical Americas Using Tree-Ring Analysis” PIs: **K.J. Anchukaitis** and Matthew Taylor, NSF Geography and Spatial Sciences, BCS-1263609, 07/2013–12/2016, \$278,599
- “CNH: Pluvials, Droughts, Energetics, and the Mongol Empire” (with West Virginia University, PI: Amy Hessler), coPIs: Neil Pederson and **K.J. Anchukaitis**, Coupled Natural-Human Systems (CNH), BCS-1210360, 05/2012 – 04/2016 (No Cost Extension to 05/2017) , \$1,394,398; (Pederson & Anchukaitis scope: \$317,576)
- “Tree-Ring Reconstructions of Western North Pacific Climate Dynamics”, PIs: R.D. D’Arrigo, **K.J. Anchukaitis**, N. Davi. NSF Paleoclimate Perspectives on Climate Change (P2C2) AGS-1159430, 06/2012 – 05/2015 (No Cost Extension to 05/2016), \$686,982
- “Past and Future Drought Variability in the Mediterranean Basin” PI: Ramzi Touchan, coPIs: **K.J. Anchukaitis**, David Meko, and B.I. Cook, NSF Paleoclimate Perspectives on Climate Change (P2C2) AGS-1103450, 06/2011 – 05/2014, No-cost extension to 5/2015, (Anchukaitis and Cook scope: \$70,388).
- “Paleoclimate shocks: environmental variability, human vulnerability, and societal adaptation during the last millennium in the Greater Mekong Basin”, PIs: B.M. Buckley, T. Heikkilä, **K.J. Anchukaitis**, and 7 others, Coupled Natural-Human Systems (CNH), ATM-0908971, 10/2009 – 9/2013 (No Cost Extension to 09/2014), \$1,401,351
- “Shifting Seasonality of Northern Forest Response to Arctic Environmental Change”, PIs: R.D. D’Arrigo, **K.J. Anchukaitis**, NSF ARC-0902051, 4/2009 – 3/2012, \$381,154
- “Developing multicentury drought reconstructions from Guatemala and the context for past and future hydroclimatic change”, PIs: **K.J. Anchukaitis**, M. Taylor, and E. Castellanos, Geography and Spatial Sciences, NSF BCS-0852652, 04/2009 - 03/2012 (No Cost Extension to 03/2013), \$203,351
- “Annual climate during the rise and fall of the Great Mongol Empire: Rapid collection of an ancient and endangered paleoclimate resource”, PIs: N. Pederson and **K.J. Anchukaitis**, Columbia University Climate Center, 11/2011, \$7,850.
- “Building capacity for managing climate risk from drought in Guatemala”, PI: **K.J. Anchukaitis**, Columbia University Earth Institute Cross-Cutting Initiative, 11/2010, \$24,000
- “Construction of a device for rapid cellulose extraction from wood for applications in isotope dendrochronology and organic biogeochemistry”, PI: **K.J. Anchukaitis**, Columbia University Climate Center, 05/2011, \$8,000
- “MRI-R2: Acquisition of Stable Isotope Instrumentation for High Precision Paleoclimatic and Environmental Research at the Lamont Doherty Earth Observatory”, PIs: B. Linsley, B. Yan, **K.J. Anchukaitis**, P. deMenocal, P. Schlosser, NSF AGS-0959148, 5/2010 – 4/2012, \$811,868
- “Dating the World Trade Center Ship”, PIs: B.M. Buckley, **K.J. Anchukaitis**, N. Pederson, E.R. Cook, R.D. D’Arrigo. AKRF, Inc., The Lower Manhattan Development Corporation, and The Port Authority of NY & NJ, 8/2010 – 7/2011, \$12,306
- “Establishing the stable oxygen isotope signature of precipitation in the Central Highlands of Vietnam for application to dendroclimatology”, PI: **K.J. Anchukaitis** and B.M. Buckley, Columbia University Climate Center, 11/2008, \$8,000
- “Assessing the dendrochronological potential of tree species in highland Guatemala”, PI: **K.J. Anchukaitis**, Columbia University Climate Center, 12/2007, \$5,000

## HONORS, AWARDS, AND FELLOWSHIPS (SINCE 2007)

Hammond Distinguished Lecturer, University of Tennessee, 2024  
Willi Dansgaard Award, Paleoceanography and Paleoclimatology Section, American Geophysical Union, 2023  
Udall Center for Studies in Public Policy Fellowship, University of Arizona, Autumn 2018  
George H. Davis Travel Fellowship, Office of Research, Discovery & Innovation, University of Arizona, Spring 2018  
Research Professorship, College of Social and Behavioral Sciences, University of Arizona, Autumn 2017  
Henry Cowles Award for Excellence in Publication, Biogeography Specialty Group, Association of American Geographers, 2015  
Stephen S. Visser Lecturer in Climatology, Indiana University, February 2015  
Marsico Visiting Scholar, University of Denver, Autumn 2011  
Newton International Postdoctoral Fellowship at Oxford University, The Royal Society (United Kingdom), 2009-2011 (*declined*)  
Andrew Ellicott Douglass Memorial Scholarship, The University of Arizona, 2007

PRESENTATIONS Recent (previous 3 years only) † = postdoctoral author, ‡ = student author

- [46] **Anchukaitis, K.J.**, Z.K. Sethuraju, D. Pons, J. Edwards, T.G. Anderson, I. Gonzalez-Mendez, M. Taylor, Dendrochronological evidence for the impacts of the 1902 Santa Maria volcanic eruption on the forests of western Guatemala, 12th Cities on Volcanoes conference, Antigua, Guatemala, 11-17 February, 2024
- [45] ‡ Anderson, T.G., K. McKinnon, D. Pons, **K.J. Anchukaitis**, How exceptional was the 2015-2019 Central American Drought? Abstract A43H-03 presented at the 2023 Fall Meeting, American Geophysical Union, San Francisco, CA, 10-16 December, 2023
- [44] **Anchukaitis, K.J.**, J.A. Edwards, E.R. Cook, J.R. Southon, B. Gaglioti, B. Hatchett, P. Krusic, A.P. Williams, K. King, S.W. Stine, Chronology and climate context for medieval megadrought in the eastern Sierra Nevada, Abstract PP32B-02 presented at the 2023 Fall Meeting, American Geophysical Union, San Francisco, CA, 10-16 December, 2023
- [43] King, K.E., E.R. Cook, **K.J. Anchukaitis**, B.I. Cook, J.E. Smerdon, R. Seager, G. Harley, B. Spei, The Increasing Prevalence of Hot Drought Across Western North America Since the 16th Century, Abstract PP32B-03 presented at the 2023 Fall Meeting, American Geophysical Union, San Francisco, CA, 10-16 December, 2023
- [42] ‡ Edwards, J., **K.J. Anchukaitis**, S. McAfee, A. Csank, L. Andreu-Hayles, R. D'Arrigo, G. von Arx, Reconstructing Past Arctic Climate Variability through High-Resolution Tree-Ring Wood Anatomical Chronologies from Northern Alaska, Abstract PP32B-04 presented at the 2023 Fall Meeting, American Geophysical Union, San Francisco, CA, 10-16 December, 2023
- [41] **Anchukaitis, K.J.**, Reconstructed snowpack variability in the western United States over the last millennium, ESS Seminar Series, Stanford Doerr School of Sustainability, Stanford University, 11 May 2023
- [40] ‡ Edwards, J., **K.J. Anchukaitis**, S. McAfee, A. Csank, L. Andreu-Hayles, R. D'Arrigo, G. von Arx, Records of past temperatures in wood anatomy of high-latitude trees, Paper presented at TRACE 2023 - Tree-Rings in Archaeology, Climatology and Ecology, Coimbra, Portugal, 8-13 May, 2023
- [39] Burke, A., H. Innes, L. Crick, **K.J. Anchukaitis**, W. Hutchison, J. McConnell, J. Rae, M. Sigl, R. Wilson, High-resolution sulfur isotopes from ice cores: improved estimates of the volcanic forcing of climate, EGU General Assembly 2023, EGU23-7109, <https://doi.org/10.5194/egusphere-egu23-7109>, Vienna, Austria, 24-28 April, 2023.

- [38] ‡ González-Mendez, A.I., **K.J. Anchukaitis**, Z. Sethuraju, T.G. Anderson, K. Morino, D. Pons, M. Taylor, Dendrochronology and quantitative wood anatomy of Guatemala’s high elevation conifers, Paper presented at the annual meeting of the American Association of Geographers, Denver, Colorado, 23-27 March, 2023
- [37] ‡ Anderson, T.G., K. McKinnon, D. Pons, **K.J. Anchukaitis**, How exceptional was the 2015–2019 Central American Drought? Paper presented at the annual meeting of the American Association of Geographers, Denver, Colorado, 23-27 March, 2023
- [36] ‡ Edwards, J., **K.J. Anchukaitis**, S. McAfee, A. Csank, L. Andreu-Hayles, R. D’Arrigo, G. von Arx, Records of past temperatures in wood anatomy of high-latitude trees, Paper presented at the annual meeting of the American Association of Geographers, Denver, Colorado, 23-27 March, 2023
- [35] ‡ Harris, K., J.E. Tierney, S. Munoz, **K.J. Anchukaitis**, Late Holocene sea surface temperatures and monsoon rainfall variability in the Gulf of California, Paper presented at the annual meeting of the American Association of Geographers, Denver, Colorado, 23-27 March, 2023
- [34] **Anchukaitis, K.J.**, B. Coulthard, N. Gauthier, G.T. Pederson, S.T. Gray, Reconstructed snowpack variability in the western United States over the last millennium, Paper presented at the annual meeting of the American Association of Geographers, Denver, Colorado, 23-27 March, 2023
- [33] **Anchukaitis, K.J.**, Reconstructed snowpack variability in the western United States over the last millennium, The Glenn and Susan Buckley Lecture in Environmental Geology, University of Illinois Urbana-Champaign, 9 February 2023
- [32] Marshall, L., A. Schmidt, L. Luecke, L. Abraham, A.P. Schurer, R. Wilson, **K.J. Anchukaitis**, G.C. Hegerl, K.S. Carslaw, P. Forster, Last Millennium Volcanic Radiative Forcing and Climate Effects Simulated in an Interactive Aerosol-Climate Model, Abstract A15H-1334 presented at 2022 Fall Meeting, American Geophysical Union, Chicago, IL, 12-17 December, 2022
- [31] Smerdon, J.E. and **K.J. Anchukaitis**, Progress and uncertainties in global and hemispheric temperature reconstructions of the Common Era, Abstract NG25A-08 presented at 2022 Fall Meeting, American Geophysical Union, Chicago, IL, 12-17 December, 2022 (**Invited**)
- [30] ‡ Homfeld, I.K., B.L. Coulthard, R. Brice, L.A. Dye, G.L. Harley, K.J. Heeter, **K.J. Anchukaitis**, Freshet- and drought-season runoff reconstructions for the Fraser Basin Headwaters, British Columbia, Canada, Paper presented at AmeriDendro 2022, Montreal, Canada, 27-30 June, 2022
- [29] Schneider, L., O. Konter, J. Esper, **K.J. Anchukaitis**, The pre-industrial temperature baseline for global warming from a tree-ring perspective, Tree-Rings in Archaeology, Climatology and Ecology (TRACE), May 24-27, Erlangen, Germany, 2022
- [28] † Leland, C. R.D. D’Arrigo, N. Davi, T. Porter, L. Andreu-Hayles, R. Oelkers, G. Wiles, R. Wilson, **K.J. Anchukaitis**, M.P. Rao, B. Gaglioti, E. Reid, S. Beaulieu, T. Nixon, The Unidentified 1809 Volcanic Event: Evidence from Tree Rings and Historical Data, Past Global Changes (PAGES) Open Science Meeting, OSM12: Volcanic impacts on climate and society, Agadir, Morocco, May 16-20, 2022
- [27] Zhu, F. J. Emile-Geay, **K.J. Anchukaitis**, G.J. Hakim, A.T. Wittenberg, M. Morales, M. Toohey, J. King, Do volcanoes influence ENSO? A re-appraisal with paleoclimate data assimilation, Past Global Changes (PAGES) Open Science Meeting, OSM12: Volcanic impacts on climate and society, Agadir, Morocco, May 16-20, 2022
- [26] ‡ Edwards, J.A., W. Tintor, **K.J. Anchukaitis**, C. Woodhouse, G. von Arx, Multiple climate signals in quantitative wood anatomical measurements of Rocky Mountain bristlecone pine, Paper presented (online) at the annual meeting of the American Association of Geographers, February 25-March 5, 2022



- [25] **Anchukaitis, K.J.**, B. Coulthard, N. Gauthier, G.T. Pederson, S.T. Gray, Reconstructed and simulated snowpack variability in the western United States over the last millennium, Abstract PP44A-01 presented at 2021 Fall Meeting, American Geophysical Union, New Orleans, LA, 11-17 December, 2021
- [24] ‡ King, J.M., **K.J. Anchukaitis**, K.J. Allen, T. Vance, A. Hessler, Assimilating the Southern Annular Mode over the Common Era using Drought Atlases and a Global Proxy Network, Abstract PP54A-07 presented at 2021 Fall Meeting, American Geophysical Union, New Orleans, LA, 11-17 December, 2021
- [23] ‡ Anderson, T.G., **K.J. Anchukaitis**, K. Morino, L. Andreu-Hayles, D. Pons, D. Griffin, E.J. Castellanos, M.J. Taylor, Multiproxy insights into past climate variability from a Central American tree-ring chronology network, Abstract GC55C-0448 presented at 2021 Fall Meeting, American Geophysical Union, New Orleans, LA, 11-17 December, 2021
- [22] ‡ Harris, K., K. Flor, J.E. Tierney, **K.J. Anchukaitis**, High-Resolution Hydroclimate Reconstruction of the North American Monsoon over the Common Era, Abstract PP55C-0673 presented at 2021 Fall Meeting, American Geophysical Union, New Orleans, LA, 11-17 December, 2021
- [21] ‡ Harris, K. J.E. Tierney, **K.J. Anchukaitis**, A. Arens, J.M. Cervenec, Virtual Field-Meets-Lab Experiences: Using VFEs to Showcase Organic Geochemistry and Paleoclimate Research, Abstract ED51A-08 presented at 2021 Fall Meeting, American Geophysical Union, New Orleans, LA, 11-17 December, 2021
- [20] ‡ Edwards, J.A., **K.J. Anchukaitis**, B.E. Gunnarson, C. Pearson, K. Seftigen, G. von Arx, H.W. Linderholm, The origin of tree-ring reconstructed summer cooling in Northern Europe during the 18th century eruption of Laki, Abstract PP44A-04 presented at 2021 Fall Meeting, American Geophysical Union, New Orleans, LA, 11-17 December, 2021
- [19] ‡ Marshall, L., A. Schmidt, A.P. Schurer, L. Abraham, R. Wilson, **K.J. Anchukaitis**, G.C. Hegerl, K.S. Carslaw, P. Forster, Last Millennium Volcanic Eruptions in the UK Earth System Model: Comparison to PMIP4 Reconstructions and Proxy Records, Abstract PP52A-07 presented at 2021 Fall Meeting, American Geophysical Union, New Orleans, LA, 11-17 December, 2021
- [18] ‡ Reed, E., D.M. Thompson, **K.J. Anchukaitis**, Coral-based Sea Surface Salinity Reconstructions and the Role of Observational Uncertainties in Inferred Variability and Trends, Abstract PP43A-03 presented at 2021 Fall Meeting, American Geophysical Union, New Orleans, LA, 11-17 December, 2021
- [17] ‡ Zhu, F. J. Emile-Geay, **K.J. Anchukaitis**, G.J. Hakim, A.T. Wittenberg, M. Morales, M. Toohey, J. King, Volcanoes and ENSO: a re-appraisal with the Last Millennium Reanalysis, EGU General Assembly 2021 (online), EGU21-753, April 19-30, 2021
- [16] ‡ Dye, L. B. Coulthard, J.S. Littell, **K.J. Anchukaitis**, When Two Records Are Better Than One: Reconstructing Warm and Dry Snow Droughts in the Cascade Mountains, USA, Paper presented (online) at the annual meeting of the American Association of Geographers, April 7-11, 2021
- [15] ‡ Edwards, J., **K.J. Anchukaitis**, B. Gunnarson, C. Pearson, G. von Arx, H. Linderholm, The enigmatic climate response to the 1783-1784 Laki eruption, Paper presented (online) at the annual meeting of the American Association of Geographers, April 7-11, 2021
- [14] **Anchukaitis, K.J.**, Temperature reconstructions from tree rings: state-of-the-art, challenges, and opportunities, Paper presented (online) at the annual meeting of the American Association of Geographers, April 7-11, 2021 (**Invited**)
- [13] ‡ Anderson, T.G., **K.J. Anchukaitis**, K. Morino, D. Pons, D. Griffin, C. Leland, E. Castellanos, M.J. Taylor, Regional and local climate responses in a Central American tree-ring chronology network, Paper presented (online) at the annual meeting of the American Association of Geographers, April 7-11, 2021

- [12] Brice, R., B. Coulthard, **K.J. Anchukaitis**, I. Homfeld, L. Dye, A new approach to streamflow reconstructions in complex, non-arid river basins: a case study for the Fraser River, B.C., Canada, Paper presented (online) at the annual meeting of the American Association of Geographers, April 7-11, 2021
- [11] ‡ Dye, L. B. Coulthard, J.S. Littell, **K.J. Anchukaitis**, Tree Rings Reveal Multi-century Snowpack Dynamics of the Cascade Range, USA, AGU Fall Meeting, PP030-0014 (Online), December 2020
- [10] Emile-Geay, J., F. Zhu, G.J. Hakim, **K.J. Anchukaitis**, A.T. Wittenberg, M. Morales, J. King, Volcano-induced ENSO occurrences: an integrated assessment using targeted paleo-climate data assimilation experiments, AGU Fall Meeting, OS015-0014 (Online), December 2020
- [9] English, N.B. A. Adriaanse-Tucker, H. Barton, P.J. Baker, **K.J. Anchukaitis** J. King, A.E. Hessel, K.J. Allen, Frequency-Dependent Covariance of Warm- and Cool-Season Temperature Reconstructions for Southern Australia over the Last Five Centuries, AGU Fall Meeting, PP030-0006 (Online), December 2020
- [8] Xu, G. C.H. Guiterman, T. Swetnam, V. Trouet, **K.J. Anchukaitis**, C.H. Baisan, Fire and climate in eastern Siberia over the past 500 years (1500-2010 CE), AGU Fall Meeting, PP047-0008, (Online), December 2020
- [7] Emile-Geay, J. F. Zhu, G.J. Hakim, **K.J. Anchukaitis**, J. King, Resolving the differences in the simulated and reconstructed temperature response to volcanism over the Last Millennium Reanalysis, Workshop on the Impacts of Large Volcanic Eruptions on Climate and Societies: Proxies, models and solutions for the future, Saas-Fee, Switzerland (Online), August 11-15, 2020
- [6] **Anchukaitis, K.J.**, J. King, R. Wilson, and the NTREND Consortium, Northern Hemisphere temperature reconstructions and the climate response to volcanic eruptions, Workshop on the Impacts of Large Volcanic Eruptions on Climate and Societies: Proxies, models and solutions for the future, Saas-Fee, Switzerland (Online), August 11-15, 2020
- [5] ‡ Zhu, F., J. Emile-Geay, G.J. Hakim, **K.J. Anchukaitis**, J. King, Resolving the differences in the simulated and reconstructed temperature response to volcanism over the Last Millennium Reanalysis, EGU General Assembly (Online), May 4-8, EGU2020-2477, 2020
- [4] Andreu-Hayles, L., R. D'Arrigo, R. Oelkers, **K.J. Anchukaitis**, G. Wiles, R. Wilson, D. Frank, N. Davi, Comparison between Blue Intensity (BI) and Maximum Latewood Density (MXD) tree-ring chronologies from the North American Boreal forests, EGU General Assembly (Online), May 4-8, EGU2020-21137, 2020
- [3] **Anchukaitis, K.J.** and J. King, Inference from the periphery: large-scale climate variability and Nile riverflow during the Common Era, International Conference on Climate Change in the Breadbasket of the Roman Empire: Reconstructing Nile Floods for the Roman Period, Swiss Institute in Rome, January 23-24, 2020 (**Invited**)
- [2] **Anchukaitis, K.J.**, T. Anderson, K. Morino, D. Pons, D. Griffin, C. Leland, E. Castellanos, M.J. Taylor, Progress in Central American dendrochronology, Paper presented at the 36th Conference of Latin American Geographers, Antigua Guatemala, January 2-4, 2020
- [1] ‡ Anderson, T., **K.J. Anchukaitis**, D. Pons, M.J. Taylor, Multiscale Trends in the Central American Midsummer Drought and Regional Precipitation Extremes, Paper presented at the 36th Conference of Latin American Geographers, Antigua Guatemala, January 2-4, 2020

#### SERVICE & SYNERGISTIC ACTIVITIES

*University of Arizona, 2015–*: College of Social and Behavioral Sciences Promotion and Tenure Committee (2021); School of Geography, Development, and Environment Promotion and Tenure Committee (2021); School of Geography, Development, and Environment Colloquium

Committee (2017 – 2018; 2019 – 2021); Chair, Global Change Graduate Interdisciplinary Program (2017 – present); School of Geography, Development, and Environment Annual Performance Review Committee (2018 – 2021; 2024 – present; Chair in 2020–2021); School of Geography, Development, and Environment Committee for Diversity, Equity, and Inclusion (2019–2020); Graduate Admissions Committee, School of Geography and Development (2015 to 2018; 2023 onward); Earth System Genomics faculty search committee (2016); Integrated Land Use Science/Human-Environment Systems faculty search committee (2016–2017); Forests, Carbon & Climate faculty search committee (2017); Paleoclimatology Faculty Search committee (2017–2018); Data Science and Spatial Analysis Faculty Search committee (2019–2020); School of Geography, Development, and Environment Director Search committee (2023–present).

Associate Editor, *Dendrochronologia*, 2023 – present

Organizer, co-PI, and instructor, paleoCAMP: Paleoclimate Training in Climate Archives, Models, and Proxies, 2022 – present

President-elect, The American Quaternary Association (AMQUA), 2022 – present

Guest Instructor, ‘Climate Diplomacy’, School of Professional and Area Studies (SPAS), Foreign Service Institute (FSI), 2021 – present

Guest editor, special issue on ‘Interdisciplinary studies of volcanic impacts on climate and society’ for *Climate of the Past*, 2020 – present

*Editorial Advisory Board*, *Quaternary Science Reviews*, 2008 – present.

*Steering Group*, PAGES Working Group on Volcanic Impacts on Climate and Society 2015 – present.

*Member*, PAGES Asia2k (2011–2014), Ocean2k (2011 – 2015), North America 2k (2015 – present) Working Groups.

U.S. National Committee (USNC) for the International Union for Quaternary Research, National Academy of Sciences, 2018 – 2023

*Program Committee chair*, Conference of Latin American Geography (CLAG) meeting, Tucson, AZ, 2021 – 2023

*Contributing Author*, Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6), 2019 – 2021

*Organizer and co-chair*, ‘Climate of the Common Era’ for the American Geophysical Union Annual Meeting (AGU), 2010 – 2019; ‘Monsoon Effects on Past Civilizations’, 2012.

*US Secretariat and Scientific Committee*, 10th International Conference on Dendrochronology, Thimphu, Bhutan (2018)

University of Arizona Museum of Art panelist, ‘Fires of Change’ exhibit (2016).

*Coordinator*, PAGES2k Transregional Reconstruction Methods Development, 2014 – 2016.

Scientific Committee, 3rd American Dendrochronology Conference, Mendoza, Argentina, March 2016

Guest editor, *PAGES Magazine*, 2015.

*Founder, organizer, and lead instructor*, Central American Dendroecological Fieldweek, Chancol, Cuchumatanes, Guatemala, March 2015.

Fellow, Expert Witness Training Academy, NSF Paleoclimate Program and William Mitchell College of Law, St. Paul, Minnesota, August 2015.

*Chair and co-organizer*, PAGES Advances in Climate Field Reconstructions, April 15–16, 2014, Woods Hole, Massachusetts.

*Scientific Advisory Committee*, 9th International Conference on Dendrochronology, Melbourne, Australia, January 2014.

*Contributing Author*, Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5; 2013)

*Instructor*, North American Dendroecological Fieldweek, Black Rock Forest, New York, June-July 2013.

Arctic Research Consortium of the U.S. (ARCUS) PolarTREC Selection Committee, 2012–2013

International Workshop on Climate Informatics, Program Committee and Breakout Group Leader, 2012

*Lamont-Doherty Earth Observatory*, 2007–2012: Columbia Climate Center, 2011 - 2012; Promotion and Careers Committee, 2009 - 2012; Campus Life Committee, 2008 - 2010; Volunteer and Speaker, Annual Open House, 2007, 2008, Panelist on Climate Extremes, 2011.

*Organizer and co-chair*, ‘Advances in Paleoclimatology’ for the Annual Meetings of the Association of American Geographers, 2004 – 2009; ‘Challenges in Dendrochronology’, 2012.

*Mentor*, ‘Google Summer of Code’, Climate Code Foundation, Summer 2011.

*Guest editor*, *Dendrochronologia*, 2003 – 2004.

*Professional reviewer* of journal manuscripts for *Science*, *Nature*, *Nature Geoscience*, *Nature Climate Change*, *Science Advances*, *Proceedings of the US National Academy of Sciences*, *Journal of Climate*, *Geology*, *Journal of Geophysical Research*, *Geophysical Research Letters*, *Paleoceanography and Paleoclimatology*, *Climate Dynamics*, *Physical Geography*, *Geochimica et Cosmochimica Acta*, *Ecology*, *Earth and Planetary Science Letters*, *Global Change Biology*, *Climate of the Past*, *Quaternary Research*, *Climatic Change*, *The Holocene*, *Geochemistry*, *Geophysics*, *Geosystems*, *Tellus B*, *Chemical Geology*, *Canadian Journal of Forest Research*, *Forest Ecology and Management*, *International Journal of Biometeorology*, *Canadian Water Resources Journal*, *Journal of Volcanology*, *Earth Interactions*, *Historical Geography*, *Current Anthropology*, *Tree-Ring Research*, *Dendrochronologia*, and others.

*Proposal reviewer* for the National Science Foundation (NSF, USA), National Aeronautics and Space Administration (NASA, USA), Natural Environment Research Council (NERC, UK), Deutsche Forschungsgemeinschaft (the German Research Foundation, DFG), the Swiss National Science Foundation, Fonds de Recherche du Québec, NAS/USAID PEER, and the National Geographic Society.