

CURRICULUM VITAE

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- APPOINTMENTS UNIVERSITY OF ARIZONA Tucson, AZ
2015 – Associate Professor, School of Geography and Development
Chair, Graduate Interdisciplinary Program in Global Change
Associate, Center for Climate Adaptation Science and Solutions (CCASS)
Joint Appointment, Laboratory of Tree-Ring Research
Joint Appointment, Department of Geosciences
- LAMONT DOHERTY EARTH OBSERVATORY OF COLUMBIA UNIVERSITY New York, NY
2012 – Adjunct 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., (*cum Laude*) 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 *Submitted or in Revision* († = postdoctoral author, ‡ = student author)
- ‡ Pearl, J.K., **K.J. Anchukaitis**, J. Donnelly, C. Pearson, N. Pederson, M.C. Lardie Gaylord ,
A.P. McNichol, E.R. Cook, G.L. Zimmermann, A late Holocene subfossil Atlantic white cedar
tree-ring chronology from the northeastern United States, submitted, 2019.
- ‡ Pearl, J.K., **K.J. Anchukaitis**, N. Pederson, J. Donnelly, Multivariate climate field reconstruc-
tions using tree rings for the northeastern United States, submitted, 2019.
- † Martin, J.T., G.T. Pederson, C.A. Woodhouse, E.R. Cook, G.J. McCabe, **K.J. Anchukaitis**,
E.K. Wise, P.J. Erger, L.S. Dolan, M. McGuire, S. Gangopadhyay, K.J. Chase, J.S. Littell, S.T.
Gray, S. St. George, J.M. Friedman, D.J. Sauchyn, J. St. Jacques, and J.C. King, Increased
drought intensity tracks warming in the United States' largest river basin, submitted, 2019.

- Andreu-Hayles, L., B.V. Gaglioti, L.T. Berner, M. Levesque, **K.J. Anchukaitis**, S. Goetz, R. D'Arrigo, A narrow window of summer temperatures is associated with shrub growth in Arctic Alaska, submitted, 2019
- ‡ Anderson, T.G., **K.J. Anchukaitis**, D. Pons, M.J. Taylor, Multiscale trends and precipitation extremes in the Central American Midsummer Drought, in revision, 2019
- Anchukaitis, K.J.**, Cook, E.R., Cook, B.I., J.K. Pearl, R.D. D'Arrigo, R. Wilson, Coupled Modes of North Atlantic Ocean-Atmosphere Variability and the Little Ice Age, in revision, 2019
- ‡ Leland, C. L. Andreu-Hayles, E. R. Cook, **K.J. Anchukaitis**, D. Martin-Benito, N. Pederson, A. Hessel, B. Nachin, O. Byambasuren, Physiological responses of ancient pine trees to partial stem dieback and environmental changes, *Tree Physiology*, in revision, 2019
- Anchukaitis, K.J.**, B. I. Cook, E. R. Cook, B.M. Buckley, Z. Fan, Mekong River flow reconstructed from tree rings, in revision.

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

- [88] Dull, R.A., J.R. Southon, S. Kutterolf, **K.J. Anchukaitis**, A. Freundt, D.B. Wahl, P. Sheets, P. Amaroli, W. Hernandez, M.C. Wiemann, C. Oppenheimer, Radiocarbon and geologic evidence reveal Ilopango volcano as source of the colossal 'mystery' eruption of 539/40 CE, *Quaternary Science Reviews*, [10.1016/j.quascirev.2019.07.037](https://doi.org/10.1016/j.quascirev.2019.07.037), 2019
- [87] Wilson, R., **K.J. Anchukaitis**, L. Andreu Hayles, E. Cook, R.D. D'Arrigo, N. Davi, L. Haberbauer, P. Krusic, B. Luckman, D. Morimoto, R. Oelkers, G. Wiles, C. Wood, Improved dendroclimatic calibration using Blue Intensity for white spruce in the southern Yukon, *The Holocene*, [doi:10.1177/0959683619862037](https://doi.org/10.1177/0959683619862037), 2019
- [86] Alexander, M.R., J.K. Pearl, D.A. Bishop, E.R. Cook, **K.J. Anchukaitis**, N. Pederson, The potential to strengthen temperature reconstructions in eco-regions with limited tree line using a multi-species approach, *Quaternary Research*, [doi:10.1017/qua.2019.33](https://doi.org/10.1017/qua.2019.33), 2019
- [85] ‡ Rao, M.P., E.R. Cook, B.I. Cook, **K.J. Anchukaitis**, R.D. D'Arrigo, P.J. Krusic, A.N. LeGrande, A double bootstrap approach to Superposed Epoch Analysis to evaluate response uncertainty, *Dendrochronologia*, 55, 119–124, [doi:10.1016/j.dendro.2019.05.001](https://doi.org/10.1016/j.dendro.2019.05.001), 2019
- [84] Cook, E.R., Y. Kushnir, J.E. Smerdon, A.P. Williams, **K.J. Anchukaitis**, E. Wahl, A Euro-Mediterranean Tree-Ring Reconstruction of the Winter NAO Index Since 910 CE, *Climate Dynamics*, 53(3-4), 1567-1580, [doi: 10.1007/s00382-019-04696-2](https://doi.org/10.1007/s00382-019-04696-2), 2019.
- [83] Allen K.J., **K.J. Anchukaitis**, M.G. Grose, G. Lee, E.R. Cook, S. Larsen, A. O'Grady, J.S. Risbey, T.J. O'Kane, D. Monselesan, P.J. Baker, Reconstructions of cool season temperature for far southeastern Australia, *Climate Dynamics*, 53(1-2), 569–583, [doi:10.1007/s00382-018-04602-2](https://doi.org/10.1007/s00382-018-04602-2), 2019
- [82] Andreu-Hayles, L., M. Levesque, D. Martin-Benito, R. Harris, W. Huang, C. Leland, R. Oelkers, J. Martin-Fernández, **K.J. Anchukaitis**, G. Helle, A high yield cellulose extraction system for small whole wood samples and dual measurement of carbon and oxygen stable isotopes, *Chemical Geology*, 504, 53-65, [doi: 10.1016/j.chemgeo.2018.09.007](https://doi.org/10.1016/j.chemgeo.2018.09.007), 2019.
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- [80] Esper, J., S. St. George, **K.J. Anchukaitis**, R. D'Arrigo, F. Ljungqvist, J. Luterbacher, L. Schneider, M. Stoffel, R. Wilson, U. Buntgen, Large-scale, millennial-length temperature reconstructions from tree-rings, *Dendrochronologia*, 50, 81–90, [doi:10.1016/j.dendro.2018.06.001](https://doi.org/10.1016/j.dendro.2018.06.001), 2018.

- [79] Cook, B.I., J.S. Mankin, **K.J. Anchukaitis**, Climate Change and Drought: From Past to Future, *Current Climate Change Reports*, 4(2):164–179, doi:10.1007/s40641-018-0093-2, 2018
- [78] Karnauskas, K.B. C-F Schleussner, J.P. Donnelly, **K.J. Anchukaitis**, Freshwater Stress on Small Island Developing States: Population Projections and Aridity Changes at 1.5°C and 2°C, *Regional Environmental Change*, 18(8), 2273–2282, doi:10.1007/s10113-018-1331-9, 2018
- [77] ‡ Anderson, T., D. Griffin, **K.J. Anchukaitis**, D. Pons, M.J. Taylor, Climate Sensitivity and Potential Vulnerability of Guatemalan Fir (*Abies guatemalensis*) Forests in Totonicapán, Guatemala, *Journal of Latin American Geography*, 17(1), 222–247, doi:10.1353/lag.2018.0009, 2018.
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- [73] ‡ Pearl, J.K., **K.J. Anchukaitis**, N. Pederson, J. Donnelly, Reconstructing Northeastern United States temperatures using Atlantic white cedar tree rings, *Environmental Research Letters*, 2(11), 114012, doi:10.1088/1748-9326/aa8f1b, 2017.
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- [71] † Martin-Benito, D., **K.J. Anchukaitis**, M.N. Evans, M. del Río, H. Beeckman, I. Cañellas, Effects of drought on xylem anatomy and water use efficiency of two co-occurring pine species, *Forests*, 8(9), 332, doi:10.3390/f8090332, 2017.
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- Morales, A.D. Moy, R. Mulvaney, I.A. Mundo, T. Nakatsuka, D.J. Nash, R. Neukom, S.E. Nicholson, H. Oerter, J.G. Palmer, S.J. Phipps, M.R. Prieto, A. Rivera, M. Sano, M. Severi, T.M. Shanahan, X. Shao, F. Shi, M. Sigl, J.E. Smerdon, O.N. Solomina, E.J. Steig, B. Stenni, M. Thamban, V. Trouet, C.S.M. Turney, M. Umer, T. van Ommen, D. Verschuren, A.E. Viau, R. Villalba, B.M. Vinther, L. von Gunten, S. Wagner, E.R. Wahl, H. Wanner, J.P. Werner, J.W.C. White, K. Yasue, E. Zorita), Continental-scale temperature variability during the last two millennia, *Nature Geoscience*, 6, 339–346, doi:10.1038/ngeo1797, 2013.
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- [9] D’Arrigo, R.D., G. Jacoby, B.M. Buckley, J. Sakulich, D. Frank, R. Wilson, A. Curtis, **K.J. Anchukaitis**, Tree growth and inferred temperature variability at the North American Arctic treeline, *Global and Planetary Change*, 65, 71–82, doi:10.1016/j.gloplacha.2008.10.011, 2009.
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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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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 Assistant Research Professor, Lamont-Doherty Earth Observatory of Columbia University.

Dario Martin-Benito, **2012–2013**, Postdoctoral Scientist, Lamont Doherty Earth Observatory. Currently Ramón y Cajal Research Scientist 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 Assistant 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 Assistant Professor, University of Nevada Las Vegas.

Nicolas Gauthier, **2019–**, Postdoctoral Research Scientist, Laboratory of Tree-Ring Research and School of Geography and Development, University of Arizona.

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 (2014–2018)

Talia Anderson, **2017-present**, M.S., University of Arizona, School of Geography and Development (2017–)

Julie Edwards, **2018-present**, M.S., University of Arizona, School of Geography and Development (2018–)

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

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
Jonathan Barichivich, **2014**, external committee member, M.Sc., Ph.D University of East Anglia, UK
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
Gloria Jimenez, **2018**, co-advisor and committee member, Ph.D., Geosciences, University of Arizona
Anne Billingsley, **2019**, committee member, Ph.D., Geosciences, University of Arizona
Matthew Meko, committee member, Ph.D., Geosciences, University of Arizona
Manuel Hernandez, external committee member, Ph.D., Geography, University of North Carolina
William Tintor, committee member, Ph.D., Geography, University of Arizona
Grace Windler, committee member, Ph.D., Geosciences, University of Arizona
Dervla Meegan Kumar, committee member, Ph.D., Geosciences, University of Arizona
Emma Reed, committee member, Ph.D., Geosciences, 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.

TEACHING

UNIVERSITY OF ARIZONA

Tucson, AZ

School of Geography and Development

GEOG 170A1 *Introduction to Physical Geography* (Spring 2016, 2017, 2018, 2019)
GEOG 230 *Our Changing Climate* (Autumn 2015, 2016)
GEOG 430/530 *The Climate System* (Spring 2016, 2017, 2018, 2019)
GEOS 599-010 *Paleoclimate Dynamics (Independent Study)* (Spring 2018)
GEOG 696C *Spatiotemporal Data Analysis* (Autumn 2016, 2019)
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
Marine Geology and Geophysics
12.708 *Topics in Paleoceanography* (Autumn 2013)

Cambridge and Woods Hole, MA

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)

HONORS

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. Visher Lecturer in Climatology, Indiana University, February 2015

Marsico Visiting Scholar, University of Denver, Autumn 2011

Andrew Ellicott Douglass Memorial Scholarship, The University of Arizona, 2006 - 2007

Institute for the Study of Planet Earth Doctoral Dissertation Improvement Grant, 2006

Galileo Circle Scholar, The University of Arizona College of Science, 2004

Sulzer Scholarship, Department of Geosciences, 2004

GPSC Outstanding Teaching Assistant Award, The University of Arizona, 2003

Robert G. Long Outstanding Graduate Student Award, The University of Tennessee, 2002

Stewart A. McCroskey Memorial Research Grant, The University of Tennessee, 2001

Departmental Honors; First & Second Honors (Dean's List) Georgetown University, 1998

FELLOWSHIPS

Newton International Postdoctoral Fellowship at Oxford University, The Royal Society (United Kingdom), 2009-2011 (*declined*)

US Department of Energy (DOE) Global Change Education Program, Graduate Research and Education Fellowship (GCEP-GREF), 2004 – 2006; *declined* in 2007.

NSF Integrative Graduate Education Research and Training Fellowship (IGERT), The University of Arizona, 2003 – 2004, 2007.

U.S. Environmental Protection Agency (EPA) STAR Fellowship, 1999 – 2001.

GRANTS

Current and Recent

- “2000 Years of Variability in the Southern Annular Mode (SAM) from Tree Rings and Ice”, PI: Amy Hessler, 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)
- “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

- “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
- “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, 09/01/2018 – 08/31/2020, \$299,973 (UA Scope: \$64,004)
- “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
- “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
- “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, (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, (UA scope: \$105,155)
- “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 Extension to 07/2018), \$447,183

Completed

- “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” (with University of Arizona). PIs: **K.J. Anchukaitis** 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. Heikkila, **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

PRESENTATIONS Invited or Recent (2018 to present) † = postdoctoral author, ‡ = student author

- † Pons, D. A.G. Muñoz, **K.J. Anchukaitis**, M.J. Taylor, M. Melendez, F. Pappa, R. Gomez, Climate Services for Coffee Farmers in Southern Guatemala, Paper presented at the American Association of Geographers Annual Meeting, Washington, DC, 3–7 April, 2019
- Coulthard, B., **K.J. Anchukaitis**, G.T. Pederson, J. Alder, S. Hostetler, S. Gray, Western United States Snow Droughts during the Common Era, Paper presented at the American Association of Geographers Annual Meeting, Washington, DC, 3–7 April, 2019
- ‡ Leland, C. E.R. Cook, L. Andreu-Hayles, A. Hessler, N. Pederson, **K.J. Anchukaitis**, B. Nachin, O. Byambasuren, The Adaptive Morphology of Ancient Siberian Pine and Impacts on Tree-ring Proxies, Paper presented at the American Association of Geographers Annual Meeting, Washington, DC, 3–7 April, 2019
- Anchukaitis, K.J.** and D. Griffin, Drought, whiplash, and variability in tree-ring reconstructions from western North America, 29th Pacific Climate Workshop (Extreme Events), Pacific Grove, California, 17-20 February, 2019 (**Invited**)
- Anchukaitis, K.J.**, B.I. Cook, E.R. Cook, Coupled Modes of North Atlantic Ocean-Atmosphere Variability over the Last Millennium, Abstract PP43C-1936 presented at 2018 Fall Meeting, AGU, Washington, DC, 10-14 December, 2018
- ‡ Pearl, J., **K.J. Anchukaitis**, N. Pederson, J. Donnelly, Multivariate climate field reconstructions for the Northeastern United States, Abstract PP42A-08 presented at 2018 Fall Meeting, AGU, Washington, DC, 10-14 December, 2018
- ‡ Leland, C., L Andreu-Hayles, E.R. Cook, **K.J. Anchukaitis**, A.E. Hessler, N. Pederson, K.L. Griffin, O. Byambasuren, B. Nachin, Carbon-Water Relations of Trees with Partial Cambial Dieback: Insights from Tree-ring Stable Isotopes, Abstract B21G-17 presented at 2018 Fall Meeting, AGU, Washington, DC, 10-14 December, 2018

- D'Arrigo, R.D., R. Wilson, M. Rydval, B.M. Buckley, E.R. Cook, **K.J. Anchukaitis**, M.P. Rao, R. D'Arrigo, The Climate and Societal Response to Three Major Volcanic Eruptions across Northern Latitudes Inferred from Tree-Ring Density in Recent Centuries, Abstract GC13E-1069 presented at 2018 Fall Meeting, AGU, Washington, DC, 10-14 December, 2018
- ‡ Oelkers, R., L. Andreu-Hayles, R.D. D'Arrigo, G.C. Wiles, N.K. Davi, **K.J. Anchukaitis**, A Blue Intensity Temperature Record from a Drought-Sensitive White Spruce Site in Central Alaska, Abstract PP43C-1928 presented at 2018 Fall Meeting, AGU, Washington, DC, 10-14 December, 2018
- Andreu-Hayles, L., R.D. D'Arrigo, R. Oelkers, **K.J. Anchukaitis**, B. Gaglioti, R. Wilson, G.C. Wiles, D. Frank, and N. K Davi, Temperature Variability from Blue Intensity (BI) and Maximum Latewood Density (MXD) tree-ring chronologies from the North American Boreal Forests, Abstract PP43C-1949 presented at 2018 Fall Meeting, AGU, Washington, DC, 10-14 December, 2018
- Wiles, G. R. Wilson, R.D. D'Arrigo, V. Race, J. Charlton, L. Andreu Hayles, R. Oelkers, N. Davi, B. Gaglioti, **K.J. Anchukaitis**, Blue Intensity tree-ring proxies breathe new life into Northeast Pacific climate studies, Geological Society of America Abstracts with Programs, 50(6), Indianapolis, IN, 4-7 November 2018
- Anchukaitis, K.J.**, B.L. Coulthard, J.K. Pearl, N. McKay, G. Pederson, C. Routson, S. St. George, R. Wilson (*given by B.L. Coulthard*), Large-scale temperature reconstructions from tree rings in North America: challenges and opportunities, Paper presented at the 8th Mountain Climate Conference, Rocky Mountain Biological Laboratory (RMBL), Gothic, Colorado, 17-21 September 2018
- Bunn, A. G., M.W. Salzer, **K.J. Anchukaitis**, M.K. Hughes, Unravelling the dual signal of temperature and precipitation in Bristlecone Pine, Paper presented at the 8th Mountain Climate Conference, Rocky Mountain Biological Laboratory (RMBL), Gothic, Colorado, 17-21 September 2018
- † Coulthard, B.L., **K.J. Anchukaitis**, G.T. Pederson, J. Alder, S. Hostetler, S. Grey, Tree ring-based insights on snowpack variability across the western American Cordilleras, Paper presented at the 8th Mountain Climate Conference, Rocky Mountain Biological Laboratory (RMBL), Gothic, Colorado, 17-21 September 2018
- ‡ Martin, J. G.T. Pederson, C. Woodhouse, E.R. Cook, G.J. McCabe, **K.J. Anchukaitis**, E.K. Wise, Increased drought intensity driven by warming in the United States' largest river basin, Paper presented at the 8th Mountain Climate Conference, Rocky Mountain Biological Laboratory (RMBL), Gothic, Colorado, 17-21 September 2018
- Anchukaitis, K.J.** The response of the climate system to explosive volcanic eruptions during the Common Era, Cities on Volcanoes 10, Naples, Italy, 2-7 September 2018
- Hessl, A., **K.J. Anchukaitis**, O. Byambasuren, C. Leland, S.R.S. Dangal, H. Tian, N. Di Cosmo, 2000 years of hydroclimate and human history in Arid Central Asia, Ecological Society of America Annual Meeting, New Orleans, LA, 5-10 August 2018
- ‡ Leland, C., Neil Pederson, D. Bishop, J.K. Pearl, **K.J. Anchukaitis**, M. Hopton-Ahmed, D. Martin-Benito, Determining the climatic vulnerability of *Chamaecyparis thyoides* at the population level along its contiguous latitudinal distribution, Ecological Society of America Annual Meeting, New Orleans, LA, 5-10 August 2018
- ‡ Pearl, J., **K.J. Anchukaitis**, N. Pederson, J. Donnelly, Paleoclimate reconstructions of the northeastern United States using Atlantic white cedar tree-rings, Paper presented at the 10th World Dendrochronology Conference, Thimphu, Bhutan, 2-22 June, 2018
- Anchukaitis, K.J.**, R. Wilson, S. Guillet, M. Stoffel, J. Esper, C. Corona, L. Schneider, D. Frank, and the NTREND Consortium Members, Ensemble reconstructions of Northern Hemisphere summer temperatures during the Common Era, Paper presented at the 10th World Dendrochronology Conference, Thimphu, Bhutan, 2-22 June, 2018

- ‡ Leland, C. E.R. Cook, L. Andreu-Hayles, N. Pederson, A. Hessler, **K.J. Anchukaitis**, O. Byambasuren, B. Nachin, N. Davi, R. D'Arrigo, K. Griffin, D.A. Bishop, and M. P. Rao, trip-bark morphology and radial growth trends of ancient *Pinus sibirica* trees in Mongolia: Considerations for dendroclimatic reconstructions, Paper presented at the 10th World Dendrochronology Conference, Thimphu, Bhutan, 2–22 June, 2018
- † Coulthard, B.L., **K.J. Anchukaitis**, S. Hostetler, G.T. Pederson, J. Alder, E.R. Cook, R. Western Cordilleran Snow Atlas: 2000 years of snowpack history for the western United States, Paper presented at the 10th World Dendrochronology Conference, Thimphu, Bhutan, 2–22 June, 2018
- Bunn, A.G., M.W. Salzer, **K.J. Anchukaitis**, and M.K. Hughes, Topography Mediates Climate and Growth of High Elevation Bristlecone Pine in the Great Basin of the Western United States, Paper presented at the 10th World Dendrochronology Conference, Thimphu, Bhutan, 2–22 June, 2018
- ‡ Rao, M.K., E.R. Cook, B.I. Cook, **K.J. Anchukaitis**, R.D. D'Arrigo, P.J. Krusic, and A.N. LeGrande, Estimating variability in the volcanic forced climate response using key year resampling, Paper presented at the 10th World Dendrochronology Conference, Thimphu, Bhutan, 2–22 June, 2018
- ‡ Leland, C., D. Bishop, J.K. Pearl, **K.J. Anchukaitis**, M. Hopton-Ahmed, D. Martin-Benito, and Neil Pederson, A framework for determining the vulnerability of tree populations to climatic change: a case study of *Chamaecyparis thyoides* from along its contiguous latitudinal distribution, Paper presented at the 10th World Dendrochronology Conference, Thimphu, Bhutan, 2–22 June, 2018
- Evans, M.N., Y. Zhang, **K.J. Anchukaitis**, J. Rezsöhazy, and H. Goosse, The forest as sensor, a case study in data model intercomparison for improved paleoclimatic data assimilation exercises, Geophysical Research Abstracts, Vol. 20, EGU2018-19155, 2018, EGU General Assembly 2018
- † Coulthard, B.L., S. Hostetler, **K.J. Anchukaitis**, G.T. Pederson, J. Alder, Advances in the use of tree rings for snowpack reconstruction: the Western Cordilleran Snow Atlas, Paper presented at the American Association of Geographers Annual Meeting, New Orleans, LA, 10–14 April, 2018.
- Anchukaitis, K.J.**, M. Stoffel, R. Wilson, J. Esper, C. Corona, S. Guillet, L. Schneider, D. Frank, Ensemble reconstructions of Northern Hemisphere summer temperatures during the Common Era, Paper presented at the American Association of Geographers Annual Meeting, New Orleans, LA, 10–14 April, 2018.
- ‡ Rao, M.K., E.R. Cook, B.I. Cook, **K.J. Anchukaitis**, R.D. D'Arrigo, P.J. Krusic, and A.N. LeGrande, Elucidating the variability in the volcanic forced climate response using a resampling approach, Poster presented at the 3rd Volcanic Impacts on Climate and Society (VICS) workshop, Tucson, AZ, 12-14 January, 2018.
- Wilson, R., **K.J. Anchukaitis**, U. Büntgen, E.R. Cook, R.D. D'Arrigo, J. Esper, D. Frank, B. Gunnarson, G. Hegerl, P.J. Krusic, H. Linderholm, M. Rydval, S. Tett, G. Wiles and E. Zorita, Empirical differences between recent tree-ring based reconstruction of Northern Hemisphere temperatures: Implications for studying past volcanic forcing, Poster presented at the 3rd Volcanic Impacts on Climate and Society (VICS) workshop, Tucson, AZ, 12-14 January, 2018.
- Sigl, M., **K.J. Anchukaitis**, A. Burke, N. Chellman, G. Plunkett, R. Wilson, Frozen in time an ice-core perspective on the timing of the great Kuwae eruption, Poster presented at the 3rd Volcanic Impacts on Climate and Society (VICS) workshop, Tucson, AZ, 12-14 January, 2018.
- Anchukaitis, K.J.**, Little Ice Age climates of the Northern Hemisphere, Paper presented at 'Collapse! What Collapse? Societal adaptations to abrupt climate changes before global warming' Humanities Workshop, Whitney Humanities Center, Yale University, 20–22 October, 2017. (Invited)

- Anchukaitis, K.J.**, Patterns of forced changes in spatiotemporal climate reconstructions of the Common Era, University of California Irvine, Department of Earth System Science colloquium, October 18, 2017 (**Invited**)
- Anchukaitis, K.J.**, Patterns of forced changes in spatiotemporal climate reconstructions of the Common Era, 1st Paleoclimate Modelling Intercomparison Project - Phase 4 conference, The Swedish Museum of Natural History, Stockholm, Sweden, 25-29 September 2017 (**Invited**)
- Anchukaitis, K.J.**, Tree Rings Reveal Climate Change Past, Present, and Future, Talk given at the American Philosophical Society Annual Meeting, Philadelphia, PA, 27-29 April 2017. (**Invited**)
- Anchukaitis, K.J.**, Hot droughts: Past, present and future, 24th American Quaternary Association (AMQUA) Biennial Meeting, Santa Fe, NM, June 28-July 2, 2016. (**Invited**)
- Anchukaitis, K.J.**, Hydroclimate Signals in Tree-Ring Chronologies Across Time and Space, PAGES2k/PMIP3 Comparing data and model estimates of hydroclimate variability and change over the Common Era, Lamont Doherty Earth Observatory, Palisades, NY, June 1-3, 2016. (**Invited**)
- Anchukaitis, K.J.**, Climate, Collapse, and Resilience: Emergent Behaviour at Greater Angkor, Cambodia, Premodern Climate Change and Resilience, Climate Change and History Research Initiative, Princeton University, May 23rd, 2016. (**Invited**)
- Anchukaitis, K.J.**, Hot Droughts: Past, Present, and Future, Department of Geography, University of Texas, 27 March 2015. (**Invited**)
- Anchukaitis, K.J.**, Hot Droughts: Past, Present, and Future, Stephen S. Visher Lecture in Climatology, Department of Geography, Indiana University, 13 February 2015. (**Invited**)
- Anchukaitis, K.J.**, Hot Droughts: Past, Present, and Future, Department of Meteorology, Stockholm University, 29 January 2015. (**Invited**)
- Anchukaitis, K.J.**, Pan-Pacific Drought Variability during the Last Millennium, Environmental Geology & Geochemistry Seminar Lecture Series, Princeton University, New Jersey, 27 February 2014. (**Invited**)
- Anchukaitis, K.J.**, What causes Asian megadroughts during the last millennium? Lecture Series on the Southeast Asian Monsoon, Bolin Center, Stockholm University, Sweden, 20 February, 2014. (**Invited**)
- Anchukaitis, K.J.**, What causes Asian megadroughts during the last millennium? Department of Earth Sciences seminar, Gothenburg University, Sweden, 17 February 2014. (**Invited**)
- Anchukaitis, K.J.**, R.D. D'Arrigo, L. Andreu-Hayles, Statistics and modeling of divergence in northwestern North America, 9th International Conference on Dendrochronology, Melbourne, Australia, 13-17 January, 2014. (**Invited**)
- Evans, M.N., S. Tolwinski-Ward, **K.J. Anchukaitis**, G. Duke, M.K. Hughes, Applications of proxy system modeling in dendroclimatology, 9th International Conference on Dendrochronology, Melbourne, Australia, 13-17 January, 2014. (**Invited**)
- Anchukaitis, K.J.**, M. Herzog, M. Hernandez, D. Martin-Benito, M.H. Gagen, A.N. LeGrande, C. Ummenhofer, B.M. Buckley, E.R. Cook, Past Asian Monsoon circulation from multiple tree-ring proxies and models, Abstract PP43C-01 presented at 2013 Fall Meeting, AGU, San Francisco, CA, 9 – 13 December, 2013. (**Invited**)
- Anchukaitis, K.J.**, Where the ocean meets the land: field research on the Earth's changing water cycle, 37th Annual Massachusetts Marine Educators Conference and Meeting, Woods Hole Oceanographic Institution, Woods Hole, MA, 2013. (**Invited**)
- Anchukaitis, K.J.**, High Resolution Paleoclimate Evidence for Droughts and Pluvials During the Common Era, Woods Hole Oceanographic Institution Morss Colloquium on The Ocean and Earth's Changing Water Cycle: Past, Present, Future, Woods Hole, MA, May 2012. (**Invited**)

- Anchukaitis, K.J.**, Mega-Droughts of the Past, Morss Colloquium, Drought or Deluge? The Ocean and Earth's Changing Water Cycle, Woods Hole, MA, 17 May 2012. (**Invited**)
- Anchukaitis, K.J.**, Here be dragons: dendrochronology at the edges of the map, University of Denver, Marsico Visiting Scholar Lecture, September 2011. (**Invited**)
- Anchukaitis, K.J.**, Proxy records don't grow on trees, Bayesian Hierarchical Models for High-Resolution Climate Reconstructions Meeting, Boulder, Colorado, March 24-25, 2011. (**Invited**)
- Anchukaitis, K.J.**, B.M. Buckley, E.R. Cook, J.E. Tierney, J. Jungclauss, R.D. D'Arrigo, C. Ammann, Synchronous megadrought in Asia and North America during the last millennium, Paper presented at 2011 AGU Chapman Conference on Climates, Past Landscapes, and Civilizations, Santa Fe, NM, 21 - 25 March, 2011. (**Invited**)
- Anchukaitis, K.J.**, E.R. Cook, B.M. Buckley, R.D. D'Arrigo, G.C. Jacoby, W.E. Wright, A thousand years of human history and the Asian monsoon from tropical tree rings, University of Minnesota, Department of Geography, Minneapolis, MN, March 2011. (**Invited**)
- Anchukaitis, K.J.**, B.M. Buckley, Climate Change and the Mekong River: Implications for Regional Stability, Workshop Series on "Environmental Flashpoints on China's Frontiers", Weatherhead East Asian Institute, Columbia University, New York, NY, October 2010. (**Invited**)
- Anchukaitis, K.J.**, E.R. Cook, B.M. Buckley, R.D. D'Arrigo, G.C. Jacoby, W.E. Wright, Tree-Ring Reconstructions of Australasian Monsoon Climate Variability, University of Texas, Jackson School of Geosciences, Austin, TX October 2010. (**Invited**)
- Anchukaitis, K.J.**, B.M. Buckley, E.R. Cook, J.H. Jungclauss, A. Sinha, R.D. D'Arrigo, C.M. Ammann, On the cause of multidecadal Medieval megadrought in southeast Asia, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract PP11G-03, 2009. (**Invited**)
- Anchukaitis, K.J.** and M.N. Evans, Toward seasonal climate reconstructions using tropical isotope dendroclimatology, Geological Society of America Abstracts with Programs, 41(7), 512, 2009. (**Invited**)
- Anchukaitis, K.J.**, B.M. Buckley, E.R. Cook, R.D. D'Arrigo, G.C. Jacoby, W.E. Wright, N. Davi, J. Li, A thousand years of human history and the Asian monsoon from tropical tree rings, Georgetown University, Washington DC, October 2009. (**Invited**)
- Anchukaitis, K.J.**, R.D. D'Arrigo, B.M. Buckley, E.R. Cook, and C.M. Ammann, Tree-ring reconstructions of Australasian monsoon climate variability, 3rd PAGES Open Science Meeting, Corvallis, Oregon, USA, 2009. (**Invited**)
- Anchukaitis, K.J.**, S.E. Tolwinski, M.N. Evans, M.K. Hughes, Toward the application of forward models of tree-ring proxies to paleoclimatology. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract PP54A-01, 2008. (**Invited**)
- Evans, M.N. **K.J. Anchukaitis**, S.R. White, T.M. Ektvedt, R.C. Penniston, M.M. Rheaume, D.M. Bowman, Prospects and challenges in tropical isotope dendroclimatology. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract PP52A-01, 2008. (**Invited**)
- Anchukaitis, K.J.** Stalking the elusive climate signal, AmeriDendro, Vancouver, Canada, 2008. (**Invited**)
- Anchukaitis, K.J.** and M.N. Evans, High Resolution Tropical Isotope Dendroclimatology: Prospects and Challenges. Goldschmidt Conference, Vancouver, Canada, 2008. (**Invited**)
- 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.
- Anchukaitis, K.J.**, M.N. Evans, R.D. D'Arrigo, J.E. Smerdon, M.K. Hughes, A. Kaplan, and E.A. Vaganov, Process model simulations of the divergence effect. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract PP54A-08, 2007 (**Invited**).

SERVICE

University of Arizona, 2015–: School of Geography and Development Colloquium Committee (2017–2018; 2019–present); Chair, Global Change Graduate Interdisciplinary Program (2017–present); School of Geography and Development Annual Performance Review Committee (2018–present); Graduate Admissions Committee, School of Geography and Development (2015 to 2018); 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);

U.S. National Committee (USNC) for the International Union for Quaternary Research, 2018 – *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).

Editorial Board, Quaternary Science Reviews, 2008 – present.

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

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.

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.

CLIVAR-PAGES Panel (starting in 2012)

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

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.

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

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*, *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*, *Paleoceanography*, *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, and the National Geographic Society.