

# CURRICULUM VITAE

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- 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., (*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)  
‡ González-Mendez, I., **K.J. Anchukaitis**, C. Pearson, D. Pons, D. Frank, J. Edwards, E. Luna, and W. Pérez, Annual chronology and climate signals in *Swietenia macrophylla* and *Cedrela odorata* (Meliaceae) in the Maya Lowlands, *Paleoceanography and Paleoclimatology*, in review, 2024  
Allen, K., **K.J. Anchukaitis**, J. Palmer, M. Freund, N. English, R. Evans, A. Adriaanse-Tucker, J. King, E.R. Cook, B.M. Buckley, P. Krusic, P. Baker, Seasonal Common Era Temperature Reconstructions for Southeastern Australia, submitted, 2024

- ‡ Anderson, T.G., D. Pons, M.J. Taylor, A. Xuruc, H. Rodríguez-Salvatierra, Z. Guido, J.A. Sullivan, D. Liverman, **K.J. Anchukaitis**, Complexity and mediating factors in farmers' climate perceptions and agricultural adaptation strategies in the Guatemalan Dry Corridor, *Climatic Change*, in review, 2024
- Tierney, J.E., E.J. Judd, M.B. Osman, J.M. King, O.J. Truax, N. Steiger, D. Amrhein, **K.J. Anchukaitis**, Advances in paleoclimate data assimilation, in review, 2024
- ‡ Edwards, J., W.L. Tintor, A.F. Nolin, C.A. Woodhouse G. von Arx, **K.J. Anchukaitis**, Multiple elevation-dependent climate signals from quantitative wood anatomical measurements of Rocky Mountain bristlecone pine, *Journal of Geophysical Research – Biogeosciences*, in revision, 2024
- Anchukaitis, K.J.**, J.O. Kaplan, B.I. Cook, D. Penny, Revisiting climate variability and the collapse of Greater Angkor, in review, 2024
- † Leland, C., N. Davi, R. D'Arrigo, L. Andreu-Hayles, A. Pacheco-Solana, J. Edwards, **K.J. Anchukaitis**, 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, *Arctic, Antarctic, and Alpine Research*, in revision, 2024
- ‡ Harris, K.D., J.E. Tierney, S. Munoz, **K.J. Anchukaitis**, Climate variability in the Gulf of California over the last 1300 years, *Paleoceanography and Paleoclimatology*, in revision, 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, 2024

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

- [139] Marshall, L.R., A. Schmidt, A.P. Schurer, N.L. Abraham, L.J. Lucke, R. Wilson, **K.J. Anchukaitis**, G. Hegerl, B. Johnson, B.L. Otto-Bliesner, E.C. Brady, M. Khodri, K. Yoshida, Last Millennium volcanic forcing and climate response using SO<sub>2</sub> emissions, *Climate of the Past*, accepted, 2024
- [138] Williams, A.P., K.A. McKinnon, **K.J. Anchukaitis**, A. Gershunov, A.M. Varuolo-Clarke, R.E.S. Clemesha, H. Liu, Anthropogenic intensification of cool-season precipitation is not yet detectable across the western United States, *Journal of Geophysical Research – Atmospheres*, 129, 12, e2023JD040537, doi:10.1029/2023JD040537, 2024
- [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*, 37, 17, 4389–4401, 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. Krmaric, B.I. Cook, Enhancing spatiotemporal reconstructions of hydroclimate variability across the Mediterranean during the last millennium, *Climate Dynamics*, 62, 5351–5371, 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
- [133] Williams, A.P., **K.J. Anchukaitis**, A.M. Varuolo-Clarke, Atmospheric rivers are responsible for cyclicity in Sierra Nevada precipitation, *Journal of Climate*, 37, 5, 1613–1627, doi:10.1175/JCLI-D-23-0421.1, 2023

- [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
- [131] ‡ Anderson, T.G., K. McKinnon, D. Pons, **K.J. Anchukaitis**, How exceptional was the 2015–2019 Central American Drought? *Geophysical Research Letters*, 50, 21, e2023GL105391, doi: 10.1029/2023GL105391, 2023
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- [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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- [120] Cook, B.I. J.E. Smerdon, E.R. Cook, A.P. Williams, **K.J. Anchukaitis**, J.S. Mankin, K. Allen, L. Andreu-Hayles, T.R. Ault, S. Belmecheri, S. Coats, B. Coulthard, B. Fosu, P. Grierson, D. Griffin, D. Herrera, M. Ionita, F. Lehner, C. Leland, K.D. Marvel, M. Morales, V. Mishra, J. Ngoma, H. Nguyen, A. O’Donnell, J. Palmer, M.P. Rao, M. Rodriguez, D. Stahle, S. Stevenson, U.K. Thapa, A. Varuolo-Clarke, E. Wise, Megadroughts in the Common Era and the Anthropocene, *Nature Reviews Earth and Environment*, 3, 741–757, doi:10.1038/s43017-022-00329-1, 2022
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- [117] **Anchukaitis, K.J.** and J.E. Smerdon, Progress and uncertainties in global and hemispheric temperature reconstructions of the Common Era, *Quaternary Science Reviews*, 286, 107537, doi:10.1016/j.quascirev.2022.107537, 2022
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- [114] Mackay, H., G. Plunkett, B. Jensen, T. Aubry, C. Corona, W.M. Kim, M. Toohey, M. Sigl, M. Stoffel, **K.J. Anchukaitis**, C. Raible, M. Bolton, J. Manning, T. Newfield, N. Di Cosmo, F. Ludlow, C. Kostick, Z. Yang, L. Coyle McClung, M. Amesbury, A. Monteath, P. Hughes, P. Langdon, D. Charman, R. Booth, K. Davies, A. Blundell, G. and Swindles, The 852/3 CE Mount Churchill eruption: examining the potential climatic and societal impacts and the timing of the Medieval Climate Anomaly in the North Atlantic Region, *Climate of the Past*, 18, 6, 1475–1508, doi:10.5194/cp-18-1475-2022, 2022
- [113] ‡ Zhu, F., J. Emile-Geay, **K.J. Anchukaitis**, G.J. Hakim, A. Wittenberg, M. Morales, M. Toohey, J. King, A re-appraisal of the ENSO response to volcanism with paleoclimate data assimilation, *Nature Communications*, 13, 747, doi:10.1038/s41467-022-28210-1, 2022
- [112] ‡ Edwards, J., **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, *Paleoceanography and Paleoclimatology*, 37, 2, e2021PA004386, doi:10.1029/2021PA004386, 2022
- [111] † Gauthier, N., B.L. Coulthard, **K.J. Anchukaitis**, Pattern-based downscaling of snowpack variability in the western United States, *Climate Dynamics*, 58, 3225–3241, doi:10.1007/s00382-021-06094-z, 2022
- [110] Brice, R., B.L. Coulthard, I.K. Homfeld, L.A. Dye, **K.J. Anchukaitis**, Paleohydrological context for recent floods and droughts in the Fraser River basin, *Environmental Research Letters*, 16, 124074, doi:10.1088/1748-9326/ac3daf, 2021
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- [107] ‡ Anderson, T.G., D.A. Christie, R.O. Chávez, M. Olea, **K.J. Anchukaitis**, Spatiotemporal peatland productivity and climate relationships across the western South American Altiplano, *Journal of Geophysical Research - Biogeosciences*, 126, 6, e2020JG005994, doi:10.1029/2020JG005994, 2021
- [106] ‡ King, J.M., **K.J. Anchukaitis**, J.E. Tierney, G.J. Hakim, J. Emile-Geay, F. Zhu, R. Wilson, A data assimilation approach to last millennium temperature field reconstruction using a limited high-sensitivity proxy network, *Journal of Climate*, 34(17): 7091–7111, doi:10.1175/JCLI-D-20-0661.1, 2021.
- [105] Buntgen, U., K. Allen, **K.J. Anchukaitis**, D. Arseneault, E. Boucher, A. Brauning, S. Chatterjee, P. Cherubini, O.V. Churakova, C. Corona, F. Gennaretti, J. Griesinger, S.

- Guillet, J. Guiot, B. Gunnarson, S. Helama, P. Hochreuther, M.K. Hughes, P. Huybers, A.V. Kirilyanov, P.J. Krusic, J. Ludescher, W. J.-H. Meier, V.S. Myglan, K. Nicolussi, C. Oppenheimer, F. Reinig, M.W. Salzer, K. Seftigen, A.R. Stine, M. Stoffel, S. St. George, E. Tejedor, A. Trevino, V. Trouet, J. Wang, R. Wilson, B. Yang, G. Xu, J. Esper, The influence of decision-making in tree ring-based climate reconstructions, *Nature Communications*, 12, 3411, doi:10.1038/s41467-021-23627-6, 2021
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- [102] Williams, A.P., **K.J. Anchukaitis**, C. A. Woodhouse, D. M. Meko, B. I. Cook, K. Bolles, E. R. Cook, Tree rings suggest no stable cycles in Sierra Nevada cool-season precipitation, *Water Resources Research*, 57(3), e2020WR028599, doi: 0.1029/2020WR028599, 2021
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- [5] **Anchukaitis, K.J.**, M.N. Evans, T. Lange, D.R. Smith., D.P. Schrag, and S.W. Leavitt, Consequences of a rapid cellulose extraction technique for oxygen isotope and radiocarbon analyses, *Analytical Chemistry*, 80(7), 2035–2041, doi:10.1021/ac7020272, 2008.
- [4] Gagen, M., D. McCarroll, N.J. Loader, I. Robertson, R. Jalkanen, and **K.J. Anchukaitis**, Exorcising the 'segment length curse': summer temperature reconstruction since AD1640 using non-detrended stable carbon isotope ratios from pine trees in Finnish Lapland, *The Holocene*, 17, 435–446, doi:10.1177/0959683607077012, 2007.
- [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.
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- [1] **Anchukaitis, K.J.** and S.P. Horn, A 2000-year reconstruction of forest disturbance from southern Pacific Costa Rica. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 221(1-2), 35–54, doi:10.1016/j.palaeo.2005.02.003, 2005.

*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, 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)  
Jonathan King, **Ph.D. 2022**, Geosciences, University of Arizona (2018–2022)  
Talia Anderson, **M.A. 2020; Ph.D. 2024**, Geography, University of Arizona (2017–2024)  
Julie Edwards, **M.A. 2020; Ph.D. 2024**, Geography, University of Arizona (2018–2024)  
Kira Harris, **M.A. 2022**, Ph.D., Geography, University of Arizona (2020–present)  
Ana Isabel González Mendez, **M.A. 2024**, Ph.D., 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  
Jingshu Wei, committee member, Ph.D., School of Natural Resources and the Environment, University of Arizona  
Talitha Hope Neesham-McTiernan, committee member, Ph.D., Geography, University of Arizona  
Alex Saunders, 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, **2022–2024**, University of Arizona, College of Science, Computer Science, undergraduate research programmer

Francisca Molina, **2023–2024**, 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)

- “The North American Temperature Atlas—A Climate Field Reconstruction for Investigating Effects of Temperature on Past Droughts”, PI: Karen King, coPI: **K.J. Anchukaitis**, J. Maxwell, G. Harley, E.R. Cook, NSF P4CLIMATE, AGS-2402386, 08/2024-08/2027, \$34,522 (UA scope only)
- “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 (UA scope only)
- “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 14C 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, 08/2021-07/2025, \$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 – 11/2025, \$396,593
- “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

*Completed*

- “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 09/2024, \$143,148
- “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 08/2024
- “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 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); 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. 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

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

Hammond Distinguished Lecturer, University of Tennessee, 2024

Willi Dansgaard Award, Paleooceanography 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. Visher 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*)

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

- [39] ‡ Anderson, T.G., D. Pons, M.J. Taylor, A. Xuruc, H. Rodríguez-Salvatierra, Z. Guido, J.A. Sullivan, D. Liverman, **K.J. Anchukaitis**, Complexity and mediating factors in farmers' climate perceptions and agricultural adaptation strategies in the Guatemalan Dry Corridor, Paper presented at the 38th Conference of Latin American Geography, Old San Juan, Puerto Rico, May 22-26, 2024
- [38] **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, Paper presented at the annual meeting of the American Association of Geographers, Honolulu, Hawaii, April 16-20, 2024
- [37] Leland, C., N. Davi, R.D. D'Arrigo, L. Andreu-Hayles, A. Pacheco-Solana, T. Porter, M. Pisaric, **K.J. Anchukaitis**, J. Edwards, S. Beaulieu The Curious Case of 1959: Tree-ring Evidence of an Extreme Cold Event in Northwestern North America, Paper presented at the annual meeting of the American Association of Geographers, Honolulu, Hawaii, April 16-20, 2024
- [36] **Anchukaitis, K.J.**, All constraints but nature's: hydroclimate in western North America during the Common Era, Hammond Distinguished Lecture, University of Tennessee, April 4, 2024 (**Invited**)
- [35] **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, February 11-17, 2024
- [34] ‡ 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, December 10-16, 2023
- [33] **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, December 10-16, 2023
- [32] 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, December 10-16, 2023
- [31] ‡ 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, December 10-16, 2023
- [30] **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, May 11, 2023
- [29] ‡ 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, May 8-13, 2023
- [28] 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, April 24-28, 2023.



- [27] ‡ 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, March 23-27, 2023
- [26] ‡ 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, March 23-27, 2023
- [25] ‡ 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, March 23-27, 2023
- [24] ‡ 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, March 23-27, 2023
- [23] **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, March 23-27, 2023
- [22] **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, February 9, 2023
- [21] 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, December 12-17, 2022
- [20] 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, December 12-17, 2022 (**Invited**)
- [19] ‡ 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, June 27-30, 2022
- [18] 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
- [17] † 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
- [16] 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
- [15] ‡ 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

- [14] **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, December 11-17, 2021
- [13] ‡ 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, December 11-17, 2021
- [12] ‡ 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, December 11-17, 2021
- [11] ‡ 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, December 11-17, 2021
- [10] ‡ Harris, K. J.E. Tierney, **K.J. Anchukaitis**, A. Arens, J.M. Cervenc, 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, December 11-17, 2021
- [9] ‡ 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, December 11-17, 2021
- [8] ‡ 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, December 11-17, 2021
- [7] ‡ 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, December 11-17, 2021
- [6] ‡ 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
- [5] ‡ 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
- [4] ‡ 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
- [3] **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**)
- [2] ‡ 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

- [1] 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

#### 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 and co-founder*, 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.