# **Curriculum Vitae**

Department of Earth and Planetary Sciences

Washington University

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### **EDUCATION**

Ph.D. Geological Sciences, Brown University, 2013 (conferred 2014)

Dissertation: Decadal to Orbital Scale Climate Change in the Indian Ocean Region: Precipitation Isotopic Perspectives from East Africa and Indonesia

Sc.M. Geological Sciences, Brown University, 2010

B.A. Environmental Sciences, Barnard College, Columbia University, 2005

### PROFESSIONAL APPOINTMENTS

2018-	Assistant Professor, Department of Earth and Planetary Sciences, Washington University, St. Louis, MO
2016-2017	Research Scientist I, Cooperative Institute for Research in Environmental Sciences, University of Colorado Boulder, Boulder, CO
2014-2016	NSF-Atmospheric and Geospace Sciences Postdoctoral Research Fellow (1) College of Earth, Ocean, and Atmospheric Sciences, Oregon State University (2) Cooperative Institute for Research in Environmental Sciences, University of Colorado Boulder
2013-2014	Postdoctoral Fellow, School of Earth & Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA
2005-2008	Environmental Research Coordinator, African Millennium Villages Project, Agriculture and Food Security Center, Earth Institute at Columbia University, New York, NY

# **RESEARCH INTERESTS**

Tropical climate variability and change; Global water cycle and isotope hydrology; Organic geochemistry of lake sediments; Paleoclimate modeling and data-model intercomparison

# **PUBLICATIONS** († student advisee †† postdoctoral advisee/supervisee)

### **Articles in peer-reviewed journals**

- in review <sup>††</sup>Falster, G.M., **Konecky, B.L.,** Madhavan, M., Stevenson, S., Coats, S. "Imprint of the Pacific Walker circulation in global precipitation  $\delta^{18}$ O." Submitted to *Journal of Climate*.
- in review Salerno, J., Bailey, K., Diem, J., **Konecky, B.L.,** Bridges, R., Namusisi, S., Bitariho, R., Palace, M., Hartter, J. "On-farm adaptation to climate change enabled by smallholder farmers' high-fidelity weather observations." Submitted to *Nature Climate Change*.
- **Konecky, B.L.,** McKay, N.P., Churakova (Sidorova), O.V., Comas-Bru, L., Dassié, E.P., DeLong, K.L., Falster, G.M.<sup>††</sup>, Fischer, M.J., Jones, M.D., Jonkers, L., Kaufman, D.S., Leduc, G., Managave, S.R., Martrat, B., Opel, T., Orsi, A.J., Partin, J.W., Sayani, H.R., Thomas, E.K., Thompson, D.M., Tyler, J.J., Abram, N.J., Atwood, A.R., Conroy, J.L., Kern, Z., Porter, T.J., Stevenson, S.L., von Gunten, L., and Iso2k Project Members. "The Iso2k Database: A global compilation of paleo-δ<sup>18</sup>O and δ<sup>2</sup>H records to aid understanding of Common Era climate." *Earth System Science Data* 12, 2261-2288, doi:10.5194/essd-12-2261-2020
- **Konecky, B.,** Dee, S., Noone, D. "WaxPSM: A forward model of leaf wax hydrogen isotope ratios to bridge proxy and model estimates of past climate." *Journal of Geophysical Research-Biogeosciences* 124:7, 2107-2125, doi:10.1029/2018JG004708
- Diem, J.E., Sung, H.S., **Konecky, B.L.,** Palace, M.W., Salerno, J. and Hartter, J. "Rainfall Characteristics and Trends—and the Role of Congo Westerlies—in the Western Uganda Transition Zone of Equatorial Africa From 1983 to 2017." *Journal of Geophysical Research: Atmospheres*, 124(20), 10712-10729.
- Guy, H., Seimon, A., Perry, B.L., **Konecky, B.,** Andrade, M., Rado, M., Potocki, M., Mayewski, P. "Subseasonal variations of stable isotopes in tropical Andean precipitation." *Journal of Hydrometeorology* 20(5): 915–933, doi:10.1175/JHM-D-18-0163.1
- Diem, J., **Konecky, B.,** Salerno, J., Hartter, J. "Is equatorial Africa getting wetter or drier? Evaluation of long-term, satellite-based rainfall estimates from western Uganda." *International Journal of Climatology* 39(7): 3334-3347, doi:10.1002/joc.6023
- Salerno, J., Diem, J., Hartter, J., **Konecky, B.** "Recent intensification of the seasonal rainfall cycle in equatorial Africa revealed by farmer observations,

- satelitte-based estimates, and station measurements." *Climatic Change* 153(1-2): 123-139, doi: 10.1007/s10584-019-02370-4
- **Konecky, B.,** Noone, D., Cobb, K. "The influence of competing hydroclimate processes on stable isotope ratios in tropical rainfall." *Geophysical Research Letters* 46:1622-1633. doi:10.1029/2018GL080188
- 2019 Khider, D., Emile-Geay, J., McKay, N.P., Gil, Y., Ratnakar, V., Alonso-Garcia, M., Bertrand, S., Bothe, O., Brewer, P., Bunn, A., Chevalier, M., Comas-Bru, L., Csank, A., Dassié, E., DeLong, K., Felis, T., Francus, P., Frappier, A., Gray, W., Goring, S., Jonkers, L., Kahle, M., Kaufman, D., Kehrwald, N.M., Martrat, B., McGregor, H., Richey, J., Schmittner, A., Scroxton, N., Sutherland, E., Thirumalaim K., Allen, K., Arnaud, F., Axford, Y., Barrows, T., Bazin, L., Pilaar Birch S.E., Bradley, E., Bregy, J., Capron, E., Cartapanis, O., Chiang, H.-W., Cobb, K.M., Debret, M., Dommain, R., Du, J., Dyez, K., Emerick, S., Erb, M.P., Falster, G.M., Finsinger, W., Fortier, D., Gauthier, N., George, S., Grimm, E., Hertzberg, J., Hibbert, F., Hillman, A., Hobbs, W., Huber, M., Hughes, A.L.C., Jaccard, S., Ruan, J., Kienast, M., Konecky, B., Le Roux, G., Lyubchich, V., Novello, V. F., Olaka, L., Partin, J. W., Pearce, C., Phipps, S.J., Pignol, C., Piotrowska, N., Poli, M.-S., Prokopenko, A., Schwanck, F., Stepanek, C., Swann, G. E. A., Telford, R., Thomas, E., Thomas, Z., Truebe, S., von Gunten, L., Waite, A., Weitzel, N., Wilhelm, B., Williams, J., Williams, J.J., Winstrup, M., Zhao, N., Zhou, Y. "PaCTS 1.0: a crowdsourced reporting standard for paleoclimate data." Paleoceanography and Paleoclimatology, 34(10), pp.1570-1596.
- Dee, S., Nusbaumer, J., Bailey, A., Russell, J., Lee, J-E., **Konecky, B.,** Buenning, N., Noone, D. "Tracking the Strength of the Walker Circulation with Stable Isotopes in Water Vapor." *Journal of Geophysical Research-Atmospheres* 123(14): 7254–7270
- **Konecky, B.,** Comas-Bru, L., Dassié, E., DeLong, K., Partin, J. "Piecing together the big picture on water and climate." *Eos* 99, doi.org/10.1029/2018EO095283
- Martin, N., Conroy, J.L., Noone, D., Cobb, K.M., **Konecky, B.,** Rea, S. "Seasonal and ENSO influences on the stable isotopic composition of Galápagos precipitation." *Journal of Geophysical Research-Atmospheres* 123(1): 261-275
- Smerdon, J., Luterbacher, J., Phipps, S., Anchukaitis, K., Ault, T., Coats, S., Cobb, K., Cook, B., Colose, C., Felis, T., Gallant, A., Jungclaus, J., **Konecky, B.,** LeGrande, A., Lewis, S., Lopatka, A., Man, W., Mankin, J., Maxwell, J., Otto-Bliesner, B., Partin, J., Singh, D., Stevenson, S., Tierney, J., Zanchettin, D., Zhan, H. "Comparing proxy and model estimates of hydroclimate variability and change over the Common Era." *Climate of the Past* 13: 1851-1900

- Seimon, T.A., Seimon, A., Yager, K., Reider, K., Delgado, A., Sowell, P., Tupayachi, A., **Konecky, B.**, McAloose, D., Halloy, S. "Long-term monitoring of tropical alpine habitat change, Andean anurans, and chytrid fungus in the Cordillera Vilcanota, Peru: Results from a decade of study." *Ecology and Evolution* 7(5): 1527-1540
- Conroy, J.L., Noone, D.C., Cobb, K.M., Moerman, J.W., and **Konecky, B.** "Paired stable isotopologues in precipitation and vapor: A case study of the amount effect within western tropical Pacific storms." *Journal of Geophysical Research-Atmospheres* 121: 3290–3303
- **Konecky, B.,** Russell, J.M., Bijaksana, S. "Glacial aridity in central Indonesia coeval with intensified monsoon circulation." *Earth and Planetary Science Letters* 437: 15-24
- **Konecky, B.** "Palaeoclimate: Monsoon matters (News & Views)." *Nature* 517: 445–446
- 2014 Otto-Bliesner, B.L., Russell, J.M., Clark, P.U., Liu, Z., Overpeck, J.T., **Konecky, B.,** deMenocal, P., Nicholson, S.E., He, F., Lu, Z. "Coherent Changes of Southeastern Equatorial and Northern African Rainfall During the Last Deglaciation." *Science* 346 (6214): 1223-1227
- **Konecky, B.**, Russell, J.M., Vuille, M., Rehfeld, K. "Invited Review: The Indian Ocean Zonal Mode over the past millennium in observed and modeled precipitation isotopes." *Quaternary Science Reviews* 103: 1-18
- Russell, J.M., Vogel, H., **Konecky, B.**, Bijaksana S., Huang, Y., Melles, M., Wattrus, N., Costa, K., King, J.W. "Glacial Forcing of Central Indonesian Hydroclimate Since 60,000 Years BP." *Proceedings of the National Academy of Sciences* 111(14): 5100-5105
- **Konecky, B.,** Russell, J.M., Huang, Y., Vuille, M., \*Cohen, L.R., Street-Perrott A. "Impact of monsoons, temperature, and CO<sub>2</sub> on the rainfall and ecosystems of Mt. Kenya during the Common Era." *Palaeogeography, Palaeoclimatology, Palaeoecology* 396: 17-25
- Costa, K.M., Russell, J.M., **Konecky, B.,** Lamb, H. "Isotopic reconstruction of the African Humid Period and the Congo Air Boundary migration at Lake Tana, Ethiopia." *Quaternary Science Reviews* 83:58-67
- Schmidt, G.A., Annan, J.D., Bartlein, P.J., Cook, B.I., Guilyardi, E., Hargreaves, J.C., Harrison, S.P., Kageyama, M., LeGrande, A.N., **Konecky, B.,** Lovejoy, S., Mann, M.E., Masson-Delmotte, V., Risi, C., Stevenson, S., Thompson, D., Timmermann, A., Tremblay, L.-B., Yiou, P. "Using paleo-climate model/proxy

- comparisons to constrain future projections in CMIP5." *Climate of the Past*, 10, 221-250
- **Konecky, B.,** Russell, J.M., Rodysill J.R., Vuille, M., Bijaksana, S., Huang, Y. "Intensification of southwestern Indonesian rainfall over the past millennium." *Geophysical Research Letters*, 40, doi:10.1029/2012GL054331
- **Konecky, B.**, Russell, J.M., Johnson, T.C., Brown, E.T., Berke, M., Werne, J.P., Huang, Y. "Atmospheric circulation patterns during late Pleistocene climate changes at Lake Malawi, Africa." *Earth and Planetary Science Letters* 312: 318-326
- Seimon, T., Seimon, A., Daszak, P, Halloy, Stephen R.P., Schloegel, L.M., Aguilar, C.A., Sowell, P., Hyatt, A.D., **Konecky, B.**, Simmons, J.E. "Upward range extension of Andean anurans and chytridiomycosis to extreme elevations in response to tropical deglaciation." *Global Change Biology* 13 (1), 288–299.
- Sanchez, P.A., Palm, C.A., Sachs, J.D., Denning, G., Flor, R., Harawa, R., Jama, B., Kiflemariam, T., **Konecky, B.**, Kozar, R., Lelerai, E., Malik, A., Modi, V., Mutuo, P., Niang, A., Okoth, H., Place, F., Ehrlich Sachs, S., Said, A., Siriri, D., Teklehaimanot, A., Wang, K., Wangila, J., Zamba, C. "The African Millennium Villages." *Proceedings of the National Academy of Sciences* 104:16775-16780

# Non-refereed journal articles

**Konecky, B.,** Comas-Bru, L., Dassié, E. "Assessing hydroclimate patterns of the past 2000 years with paleo- $\delta^{18}$ O and  $\delta$ D records" *Past Global Changes Magazine* 25(2): 111

# Manuscripts in preparation

Konecky, B.L., McKay, N.P., ††Falster, G.M., Stevenson, S.L., Fischer, M.J.,
Atwood, A.R., Thompson, D.M., Jones, M.D., DeLong, K.L., Tyler, J.J., Martrat,
B., Thomas, E.K., Conroy, J.L., Dee, S.G., Jonkers, L., Churakova (Sidorova),
O.V., Kern, Z., Opel, T., Sayani, H.R., and Iso2k Project Members. "Temperature-driven changes in the global water cycle during the Common Era." In prep for *Nature*.

# **GRANTS AND FELLOWSHIPS** (\*denotes submitted/awarded to Washington University)

### Research support

\*2020-2023 Berke, M., **Konecky, B.** (Co-I), Werne, J. "Collaborative Research: Neotropical climate and environmental change over 400 ka of glacial-interglacial cycles *Konecky, CV, Pg.* 5

- from Lake Petén Itzá." National Science Foundation Paleo Perspectives on Climate Change (P2C2) Program. Amount: \$197,100 to WU
- \*2019-2024 Packard Foundation Fellowship for Science and Engineering, David and Lucile Packard Foundation. \$875,000.
- \*2018-2021 Stevenson, S., **Konecky, B. (Co-I)**, Coats, S. "Collaborative Research: A model/proxy synthesis of Walker Circulation trends during the Last Millennium." National Science Foundation, Paleo Perspectives on Climate Change (P2C2). Award #1805141. \$860,350 (\$317,221 to B. Konecky)
- \*2018-2019 **Konecky, B. (Lead PI)** and Baitzel, S. "Climate change and prehistoric cultural transformations in the high Andes." International Center for Energy, Environment, and Sustainability (InCEES), Washington University. \$45,000.
- \*2017-2018 **Konecky, B. (Lead PI)**, Smol, J., Michelutti, N., Sowell, P., Ausejo, C., Grooms, C. "Climatic and environmental change in the High Andes as a backdrop to pre-Hispanic human activities: Paleoclimate investigations from a newly discovered archaeological site at Lake Sibinacocha, Peru." National Geographic Society, Standard Grant Program, Award #HJ-097R-17. \$29,662.
- \*2017-2020 Diem, J., **Konecky, B. (Co-I)**, Hartter, J., Palace, M. "Understanding the role of moisture transport in rainfall variability and agricultural decision making." National Science Foundation, Geographic and Spatial Sciences Award #1740201. \$399,998 (\$114,302 to **B. Konecky**)
- Noone, D. (**Konecky, B.** co-author). "Synthesis study of the tropical rain belt through the Holocene." National Science Foundation, Paleo Perspectives on Climate Change, Award #1502806, \$636,422 (subaward to **B. Konecky**: \$167,797)
- **Konecky, B. (PI)** "Expedition to the Okavango Delta to examine the effects of a changing climate on water resources." National Geographic Society-Waitt Grant Program, Award #W410-15, \$15,000
- **Konecky, B. (PI)** "Indo-Pacific hydrology in a warming world: Modeled and observed responses to climate forcings from the Little Ice Age to present." U.S. National Science Foundation, Atmospheric and Geospace Sciences Postdoctoral Research Fellowship, Award #1433408, \$172,000
- 2012 **Konecky, B. (PI)** "Zonal gradients in tropical East African rainfall variability over the past 2 kyr: Insights from Lake George, Uganda." Geological Society of America, Student Research Grants Program, \$2,500

- 2009-2012 **Konecky, B. (PI)** "Long-Term Climate Variability and Land Cover Change in Tropical East Africa." \$121,500, National Science Foundation, Graduate Research Fellowship Program
- **Konecky, B. (PI)** "Abrupt climate changes in southern East Africa during Marine Isotope Stage 3: A New Precipitation Record from Lake Malawi." Geological Society of America, Charles A. and June R.P. Ross Endowed Research Award, \$4,000

# **Pending proposals**

- **Konecky, B. (Lead PI)**, Castañeda, I., Vuille, M. "Collaborative Research: Quantitative reconstructions of Last Millennium Hydroclimate and Temperature from the Tropical High Andes." National Science Foundation Paleo Perspectives on Climate Change (P2C2) Program.
- Bird, B., **Konecky, B.** (Co-I), Steinman, B., Noren, A. "Collaborative Research: Investigating Inter-Hemispheric Phasing of Tropical Andean Hydroclimate in Response to Holocene Orbital Forcing." National Science Foundation Paleo Perspectives on Climate Change (P2C2) Program.

### Support for research collaboration

- Konecky, B. and Partin, J. "Iso2k Science Team Meeting." Workshop on isotope and climate data synthesis of the past 2kyr, organized and led by B. Konecky and J. Partin. Zaragoza, Spain, May 14-15. Past Global Changes Network (PAGES), \$4,000
- **Konecky, B.** and Loomis, S. "African climate and ecosystems: Tools for quantifying changes in the past, present, and future." Two-part mini course on statistical techniques and time series analysis for paleodata. Fall 2011-Spring 2012. Brown University, Graduate International Colloquium Fund, \$5,000

### Other support

- Participant support, "Lake Izabal Basin Research Endeavor (LIBRE) Workshop," International Continental Drilling Program (ICDP), Antigua, Guatemala, August 1-7, 2021 (COVID19 permitting; originally scheduled for July 2020)
- Participant support, "Early Career Geoscience Faculty: Teaching, Research, and Managing Your Career Workshop," On the Cutting Edge & National Association for Geoscience Teachers, held virtually due to COVID19, July 27-30 2020 & NSF site visit Aug 3-4, 2020
- 2019 Participant support, "Workshop on Scientific Drilling of Lake Tanganyika, Africa," International Continental Drilling Program (ICDP), Dar-es-Salaam, Tanzania, June 17-20, 2019

2016	Early Career Travel Grant, PMIP3/PAGES2K, New York, NY
2013	Early Career Travel Grant, PMIP3/PAGES2K, Madrid, Spain
2013	Early Career Travel Grant, PAGES YSM/OSM, Goa, India
2012	Early Career Travel Grant, PAGES/CLIVAR, Honolulu, HI
2013	Dissertation Fellowship, Geological Sciences, Brown University
2008-2009	First-Year Fellowship, Geological Sciences, Brown University

# **HONORS AND AWARDS**

2019	Packard Foundation Fellow in Science and Engineering
2019	Nanne Weber Early Career Award, American Geophysical Union
2016	Invited trainee, Expert Witness Training Academy for climate scientists, Mitchell
	Hamline School of Law, St. Paul, MN, Jul 31-Aug 5
2014-2016	NSF-AGS Postdoctoral Research Fellow
2015	Outstanding Reviewer for 2014, Quaternary Science Reviews
2013	GeoClub Award for Outstanding Departmental Service, Brown University
2009-2012	NSF Graduate Research Fellow
2012	Outstanding Mention, Geological Society of America Student Research Grants
2009	Outstanding Mention and recipient of endowed award, Geological Society of
	America Student Research Grants

# INVITED KEYNOTES AND LECTURES

\* indicates disruption due to COVID-19 pandemic

2021	Department colloquium, University of Michigan, upcoming 11/2021
2021	Living Earth Collaborative seminar, Washington University, upcoming 4/2021
2021	Department colloquium, University of Southern California, upcoming 3/2021
2021	*Invite Keynote, Past Global Changes Young Scientists Meeting, Agadir, Morocco (5/2021) (*postponed to 2022 due to covid19 pandemic)
2021	*Department colloquium, Department of Atmospheric, Oceanic, and Earth Sciences, George Mason University, Fairfax, VA (originally scheduled for 4/2020, rescheduled for 10/2020)
2021	*Department colloquium, Department of Geology and Environmental Science, University of Pittsburgh, Pittsburgh, PA (originally scheduled for 3/2020, rescheduled for 2/2021)

2019 Department colloquium, Department of Earth, Environmental, and Planetary Sciences, Rice University, Houston, TX (10/2019) 2018 Brown bag seminar, Department of Earth and Planetary Sciences, Washington University. "Climate research in tropical Africa and South America: Field updates from the soggy summer of 2018." (11/2018) 2018 Environmental Studies Faculty Breakfast speaker, Environmental Studies Program, Washington University. "Climate research in tropical Africa and South America: Field updates from the soggy summer of 2018." (11/2018) 2018 Department colloquium, Department of Earth and Environmental Sciences, University of Illinois at Chicago. "The tropical water cycle from the last ice age to the last century: New frontiers at the data-model interface." (11/2018) 2018 Thompson, D., Conroy, J., Konecky, B., McKay, N., Stevenson, S., and Iso2k Project Members. "Indo-Pacific hydroclimate change over the past 200 years: new insights from the Iso2k synthesis" Invited keynote (B. Konecky invited, talk given by co-author due to fieldwork conflict), Goldschmidt Conference, Boston, MA (8/2018) 2017 "Mechanisms of tropical hydroclimate change during the late Quaternary: New frontiers at the intersection of proxies, models, and observations." Invited Keynote address, Goldschmidt Conference, Paris, France (8/2017) 2017 "Fingerprinting glacial climate change with the  $\delta^{18}O$  and  $\delta D$  of tropical precipitation." Invited Keynote address, 8th International Climate Change: The Karst Record (KR8), Austin, TX (5/2017) 2017 "Fingerprinting tropical climate change during the Last Glacial Maximum." Weeks Lecture, Department of Geoscience, University of Wisconsin-Madison, Madison, WI (4/2017) 2015 "Viewing past Indo-Pacific climate through the lens of modern tropical water isotope signatures." Lamont-Doherty Earth Observatory, Columbia University, New York, NY (11/2015) 2015 "A Proxy System Model for Leaf Waxes." GFZ German Research Centre for Geosciences, Potsdam, Germany (5/2015) 2015 "Perspectives on Indo-Pacific Climate from Ancient and Modern Water Isotopes." GFZ German Research Centre for Geosciences, Potsdam, Germany (5/2015) 2015 "Perspectives on Tropical Rainfall from Ancient and Modern Water Isotopes." Goddard Institute for Space Studies, New York, NY (3/2015)

### **INVITED CONFERENCE TALKS**

- **Konecky, B.\*,** Diem, J., Palace, M., Salerno, J., Hutchings, J., Hartter, J. "Evaluation of triple oxygen isotopes in daily East African precipitation as a potential tracer of continental recycled moisture." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 9-13
- **Konecky, B.\***, Noone, D., Otto-Bliesner, B., Nusbaumer, J., Cobb, K. "Water isotope tracers of tropical hydroclimate in a warming world." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 12-16
- Konecky, B.\*, Partin, J. "Translating multi-proxy isotope data into climate information with the Iso2k project." Workshop on Water-Isotope Modeling for Paleoclimate Reconstruction and Data Assimilation, Last Millennium Reanalysis Project, Friday Harbor, WA, Oct 25-26
- Konecky, B.\*, Noone, D., Nusbaumer, J., Cobb, K. "Evaluating water isotope signatures as tracers of past and present atmospheric circulation in the Indo-Pacific." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 14-18
- **Konecky, B.\*** "The other kind of rock: Diversifying the geosciences using some tools from rock n' roll." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 14-18
- 2009 **Konecky, B.\*** and Berenfeld, M. "Addressing Climate Change and Cultural Heritage in Academia and the Public Sphere." National Council on Public History Annual Meeting, Providence, RI, April 2-5

### **CONFERENCE ABSTRACTS**

**Oral presentations** (\* presenting author, † student advisee, †† postdoctoral advisee/supervisee)

- Falster, G. ††, **Konecky, B.,** Madhavan, M., Stevenson, S., Coats. S. "Fingerprinting the Pacific Walker Circulation Using Precipitation  $\delta^{18}O$  (Invited Talk)." American Geophysical Union Fall Meeting, Virtual, Dec 1-17
- Hutchings, J.,\* †† and **Konecky, B.L.** "Phylogenetic, Adaptational, and Environmental Controls on Hydrogen Isotope Apparent Fractionation in Leaf Waxes from a Synthesis of 3,000+ Plant Specimens." American Geophysical Union Fall Meeting, Virtual, Dec 1-17

- **Konecky, B.** "Fingerprinting the global water cycle from the ancient past to today." Packard Fellows Annual Meeting, David and Lucile Packard Foundation, Sep 9-12
- Eggleston, S.\*, Bothe, O., Abram, N., **Konecky, B.,** Martrat, B., McGregor, H., Phipps, St., St. George, S. "Global climate changes during the most recent two millennia." European Geophysical Union General Assembly, Vienna, Austria, May 3-8 (*changed to virtual format due to COVID19*)
- Reid, R.B.\*, Li, X., Edwards, C., **Konecky, B.** "Using modern and historical samples to ground truth bat guano isotopic values as proxies for past vegetation and precipitation in Missouri." Ecological Society of America Annual Meeting, Salt Lake City, UT, Aug 2-7 (changed to virtual format due to COVID19)
- Stevenson, S.\*, **Konecky, B.,** Madhavan, M., Coats, S., Falster, G.<sup>††</sup>. "Walker Circulation Variations Over the Last Millennium." Paleoclimate Model Intercomparison Project (PMIP) Conference, Date/Location TBD (Originally 22-26 June in Nanjing, China, *moved & postponed to Fall 2020 due to COVID19*)
- Falster, G.\*<sup>††</sup>, **Konecky, B.,** McKay, N., Atwood, A., Conroy, J., Fischer, M., Jones, M., Jonkers, L., and Iso2k Project Members. "New insights into spatial and temporal dynamics of the global water cycle from the Iso2k database." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 9-13.
- "The PAGES 2k Network: Overview, Progress and Vision." (*Invited*) Evans, M.\*, Abram, N., Bothe, O., **Konecky, B.,** Linderholm, H., Martrat, B., McGregor, H., Neukom, R., Phipps, S., St. George, S., Eggleston, S. American Geophysical Union Fall Meeting, San Francisco, CA, Dec 9-13.
- Sae-Lim, J.\*<sup>†</sup>, **Konecky, B.,** Michelutti, N., Grooms, C., Hutchings, J., Castañeda, I., Salacup, J., Smol, P. "Investigation of climate, terrestrial ecosystems, and aquatic productivity during the past ~1,500 years from the Lake Sibinacocha watershed, Peruvian Andes." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 9-13.
- **Konecky, B.\*,** Dee, S., Noone, D. "A forward model of leaf wax hydrogen isotope ratios for bridging proxy and model estimates of past climate." American Geophysical Union Fall Meeting, Washington, D.C., December 14-18.
- Jones, M.D.\*, Dee, S., Kaufman, D.S., **Konecky, B.,** Thomas, E., Tyler, J., Stevenson, S., Roop, H., Falster, G., Klaebe, R., and Iso2k Project Members. "A global synthesis of water isotope proxies from lake archives through the last 2000 years from the Past Global Changes (PAGES) Iso2k Project." IPA-PAL Joint Meeting: Unravelling the Past and the Future of Lakes, Stockholm, Sweden, June 18-21.
- **Konecky, B.\*,** Conroy, J., Fischer, M., Jones, M., Jonkers, L., McKay, N., Stevenson, S., Thompson, D., Tyler, J., Churakova, O., Comas-Bru, L., Dassié, E., *Konecky, CV, Pg.* 11

- Dee, S., DeLong, K., Martrat, B., Partin, J., and Iso2k Project Members. "Global synthesis of Common Era hydroclimate using water isotope proxies from multiple archives: First results from the PAGES Iso2k Project." American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15
- Hurley, J.\*, **Konecky, B.,** Noone, D. "Mechanisms for land-atmosphere moisture recycling at the Okavango Delta, Botswana, and implications for paleo-mega-lake Makgadikgadi." Geological Society of America Annual Meeting, Seattle, WA, October 22-25
- Konecky, B.\*, Noone, D., Di Nezio, P., Nusbaumer, J., Otto-Bliesner, B., Cobb, K. "Fingerprinting tropical hydroclimate change during the Last Glacial Maximum." Past Global Changes Open Science Meeting, Zaragoza, Spain, May 9-13
- Dee, S.\*, Russell., J., Nusbaumer, J., **Konecky, B.,** Beuning, N., Lee, J.-E., Noone, D. "Partitioning the effects of global warming on the hydrological cycle with Stable isotopes in water vapor." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 12-16
- **Konecky, B.\***, Partin, J. "Iso2k: A community-sourced global database of paleowater isotopes from the past two millennia." PAGES2k-PMIP3 Workshop 'Comparing data and model estimates of hydroclimate variability and change over the Common Era, 'Palisades, NY, June 1-3
- Martin, N.\*, Conroy, J., Noone, D., Cobb, K., **Konecky, B.,** Rea, S. "Amount effect, altitude, and moisture source influences on precipitation isotopic variability in the Galápagos islands." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 14-18
- Konecky, B.\*, Noone, D., Nusbaumer, J., Cobb, K. "Viewing Holocene ITCZ and monsoon dynamics through the lens of modern tropical water isotope signatures." Workshop on Monsoons and the ITCZ: The Annual Cycle in the Holocene and the Future, Columbia University, New York, NY, Sept 15-18
- **Konecky, B.\*,** Nusbaumer, J., Stevenson, S., Thompson, D., Wong, T., Noone, D., and Sachse, D. "Evaluating hydroclimate change in the recent past with observed and modeled leaf wax hydrogen isotopes." Goldschmidt Conference, Prague, Czech Republic, Aug 16-21
- Russell, J.M., **Konecky, B.\*,** Vogel, H., Bijaksana, S., Huang, Y. "Precipitation isotopes reveal intensified Indonesian monsoon circulation during the dry Last Glacial Maximum." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 15-19
- Russell, J.M.\*, Vogel, H., Bijaksana, S., **Konecky, B.,** Wicaksono, S., Costa, K., Wattrus, N., Melles, M. "Multiproxy records of Indo-Pacific climate and

- environmental change from Lake Towuti, Indonesia, since 60 kyr BP." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 15-19
- Otto-Bliesner, B.L.\*, Russell, J.M., Clark, P.U., Liu, Z., Overpeck, J.T., **Konecky, B.,** deMenocal, P.B., Nicholson, S.E., He, F., Lu, Z. "Coherent changes of northern and eastern equatorial Africa rainfall during the last deglaciation." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 15-19
- **Konecky, B.\*,** Cobb, K., Noone, D., Russell, J.M. "Decoding Holocene δ<sup>18</sup>O and δD proxy records from the Indo-Pacific." Workshop on Holocene Climate as Context for Future Climate Change, Mt. Hood, OR, Oct 13-16
- **Konecky, B.\*,** Russell, J.M., Vogel, H., Bikajsana, S., Huang, Y. "The influence of the East Asian Winter Monsoon on Indonesian rainfall during the past 60,000 years." American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 9-13
- Konecky, B.\*, Russell, J.M., Vuille, M., Huang, Y. 2013. "Data and model perspectives on the Indian Ocean Zonal Mode over the past millennium." Past Global Changes (PAGES) Open Science Meeting, Goa, India, Feb 11-18
- Konecky, B.\*, Otto-Bliesner, B., Russell, J.M. "Holocene Climate Change in Tropical Africa: Insights from TraCE-21K." Synthesis of Transient Climate Evolution of the last 21 Kyr (SynTraCE) Workshop, Providence, RI, Nov 4-7
- **Konecky, B.,\*** Russell, J.M., Rodysill, J.R., Vuille, M., Bijaksana, S., Huang, Y. "Intensification of the Australasian Monsoon at Java, Indonesia, during the past millennium." International Paleolimnology Symposium, Glasgow, UK, Aug 21-24
- **Konecky, B.\*,** Russell, J.M., Bijaksana, S., and Towuti Drilling Project Members. "Lake Towuti Drilling Project: Quaternary environmental evolution of the Maritime continent." Vale Base Metals Sustainability Day, Toronto, ON, CAN, June 6
- Russell, J.M.\*, **Konecky, B.**, Costa, K., Bijaksana, S., Vogel, H., King, J.W., Cahyarini S.Y., Tamuntuan G.H., Noren A.J., Wattrus N.J. "Orbital- to millennial-scale abrupt hydrologic change in central Indonesia during the past 120,000 years." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 3-7
- Konecky, B.\*, Russell, J.M., Vuille, M., Rodysill, J.R., Cohen, L.R., Chuman, A.F., Huang, Y. "A Zonal Mode in the Indian Ocean over the Past Millennium? Isotopic Evidence from Continental Climate Archives and Model Simulations." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 5-9
- Russell, J.M.\*, Vogel, H., **Konecky, B.**, Bijaksana, S., King, J.W., Cahyarini, S.Y., Tamuntuan, G.H., Noren A.J., Wattrus N.J. "Orbital- to millennial-scale abrupt hydrologic change in central Indonesia during the past 60,000 years." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 5-9

**Poster presentations** (\* presenting author, † student advisee, †† postdoctoral advisee/supervisee)

- Konecky, B.L.\*, Salerno, J., Bridges, R., Hutchings, J. ††, Bailey, K., Diem, J., Palace, M., Hartter, J. "The unusual 2018-2019 rainy seasons in western Uganda through the lens of precipitation isotopes, satellite data, and farmer observations." American Geophysical Union Fall Meeting, Virtual, Dec 1-17
- Sae-Lim, J.\*†, **Konecky, B. L.,** Morrill, C., Hutchings, J.††, Castañeda, I. S., Salacup, J., Michelutti, N., Grooms, C., and Smol, J. P. "Assessment of 19th and 20th century lake and air temperature history in the Peruvian high Andes using biomarkers and lake energy balance modeling." American Geophysical Union Fall Meeting, Virtual, Dec 1-17
- Stevenson, S.\*, **Konecky, B.,** Falster, G.<sup>††</sup>, Atwood, A., Fischer, M., Thompson, D., Dee, S., Tyler, J., Martrat, B., and Iso2k Project Members. "Coherent, Millennial-Scale Trends in  $\delta^{18}$ O: A Fingerprint of Pacific Walker Circulation Changes? (Invited Poster)." American Geophysical Union Fall Meeting, Virtual, Dec 1-17
- McGregor, H.\*, Phipps, S., Martrat, B., Eggleston, S., Bothe, O., **Konecky, B.,**Linderholm, H., Abram, N., St. George, S. "Advancing community-led research into the climate of the Common Era." American Geophysical Union Fall Meeting, Virtual, Dec 1-17
- Eggleston, S.\*, Phipps, S., Abram, N., Bothe, O., Linderholm, H., Martrat, B., McGregor, H., Neukom, R., St. George, S., **Konecky, B.** "Defining 'pre-industrial climate': Past global changes during the most recent two millennia." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 9-13.
- Reid, R.\*, Reid, L., Edwards, C., Xu, A., **Konecky, B.,** Liu, X. "Reconstructing landscape scale vegetation in tropical Central America using bat guano carbon isotopes." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 9-13.
- **Konecky, B.\*,** Diem, J., Palace, M. Salerno, J., Harter, H. "Evaluation of triple oxygen isotopes in daily East African precipitation as a potential tracer of recycled continental moisture." U.S. Climate Variability and Predictability Program *Water Isotopes and Climate* Workshop, Boulder, CO, 1-3 October
- Atwood, A.\*, **Konecky, B.,** McKay, N., Conroy, J., Fischer, M., Jones, M., Jonkers, L., Stevenson, S., Thompson, D., Tyler, J., and Iso2k Project Members. "Iso2k: A global synthesis of water isotope proxies from multiple archives over the Common Era." U.S. Climate Variability and Predictability Program *Water Isotopes and Climate* Workshop, Boulder, CO, 1-3 October

- Eggleston, S.\*, Abram, N., Bothe, O., **Konecky, B.,** Linderholm, H., Bartrat, B., McGregor, H., Neukom, R., Phipps, S., St. George, S. "Defining 'pre-industrial climate': Past global changes during the most recent two millennia." International Union for Quaternary Research (INQUA) Congress, Dublin, Ireland, 25-31 July
- Elliott, K.\*, Grothe, P., **Konecky, B.** "The seasonality of oxygen and hydrogen isotopes of rain, stream and groundwater in Fredericksburg, VA." Geological Society of America Southeastern Section 68<sup>th</sup> Annual Meeting, Charleston, SC, 28-29 March
- Diem, J.\*, **Konecky, B.,** Salerno, J., Hartter, J. "Evaluation of long-term, satellite-based rainfall estimates in a climatic transition zone in equatorial Africa." American Meteorological Society Annual Meeting, Phoenix, AZ, 6-10 January
- Tiger, B.\*†, **Konecky, B.,** Michelutti, N., Grooms, C., Hutchings, J., Sowell, P., Smol, J. "A preliminary biogeochemical characterization of sediments from Lake Sibinacocha, Peruvian Andes." American Geophysical Union Fall Meeting, Washington, D.C., December 14-18.
- Tiger, B.\*†, **Konecky, B.,** Michelutti, N., Grooms, C., Hutchings, J., Sowell, P., Smol, J. "Preliminary biogeochemical characterization of sediments from Lake Sibinacocha, Peruvian Andes." Midwest Geobiology Conference, Chicago, IL, October 6
- Diem, J.E.\*, Salerno, J., Hartter, J., **Konecky, B.** "Farmer observations and satellite-based rainfall estimates indicate intensification of the seasonal rainfall cycle in equatorial Africa." American Association of Geographers Annual Meeting, New Orleans, LA, April 10-14
- Nusbaumer, J.\*, LeGrande, A., **Konecky, B.,** Noone, D. "The relationship between water isotope ratios and moisture source in global climate simulations." Paleoclimate Intercomparison Project 4 (PMIP4) Meeting, Stockholm, Sweden, September 25-29
- Konecky, B.\*, Churakova, O., Comas-Bru, L., DeLong, K., Jonkers, L., Partin, J., Stevenson, S., Thompson, D., Tyler, J., and Iso2k Project Members. "Iso2k: A global synthesis of Common Era hydroclimate using water isotope proxies from multiple archives." Paleoclimate Intercomparison Project 4 (PMIP4) Meeting, Stockholm, Sweden, September 25-29
- 2017 Conroy, J.\*, Thompson, D., Stevenson, S., Dassié, E., **Konecky, B.,** and Iso2k Project Members. "Salinity information in coral δ<sup>18</sup>O archives." American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15
- Niezgoda, K.†\*, **Konecky, B.,** and Noone, D. "The relationship between the zonal-mean ITCZ and regional expressions of the Tropical Rain Belt during the mid-

- Holocene." American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15
- Niezgoda, K.<sup>†\*</sup>, **Konecky, B.,** and Noone, D. "Characterizing the mid-Holocene (6.2 kya) tropical hydrologic cycle using simulated water isotopes in iCAM5." The 22<sup>nd</sup> Annual Community Earth System Model Workshop, Boulder, CO, 19-22 June
- Konecky, B.\*, Noone, D., "Impacts of climate change on rainfall, seasonal flooding, and evapotranspiration in the Okavango Delta, Botswana." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 12-16
- Partin, J., **Konecky, B.\***, and Iso2k Project Members. "Iso2k: A community-driven effort to develop a global database of paleo-water isotopes covering the past two millennia." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 14-18
- Konecky, B.\*, Noone, D., Nusbaumer, J., Cobb, K. "ENSO and Indo-Pacific water isotopes: Observations, modeling, and implications for proxy reconstructions." Isotope Hydrology Symposium, International Atomic Energy Agency, Vienna, Austria, May 2015
- Konecky, B.\* (session convener), Noone, D., Nusbaumer, J., Cobb, K. "ENSO and Indo-Pacific water isotopes: Observations, modeling, and implications for proxy reconstructions." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 15-19
- Moerman, J.W.\*, Cobb, K., **Konecky, B.,** Noone, D. "The role of remote versus local climatic influences in shaping seasonal to interannual rainfall isotopic variations in northern Borneo." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 15-19
- 2014 Conroy, J.L.\*, Noone, D., Cobb, K.M., Moerman, J.W., **Konecky, B.** "Paired vapor-precipitation isotope data from Manus, Papua New Guinea." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 15-19
- **Konecky, B.\*,** Noone, D., Nusbaumer, J., Cobb, K. "New constraints on ENSO/water cycle interactions in the Indo-Pacific from the δD of tropospheric water vapor in observations and iso-CAM5." 19<sup>th</sup> Annual Community Earth System Model Workshop, Breckenridge, CO, June 16-19
- **Konecky, B.\*,** Russell, J.M., Vuille, M., Huang, Y., Bijaksana, S. "Precipitation Heterogeneity in Western and Central Indonesia Over the Past 2 kyr: Proxy Records and Mechanisms." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 3-7
- **Konecky, B.\*,** Otto-Bliesner, B., Russell, J.M. "Precipitation Seasonality in Tropical Africa during the Holocene: Insights from Proxies and CCSM3."

- PAGES/CLIVAR Workshop on Using Paleoclimate Data/Models to Constrain Future Projections, Honolulu, HI, Mar 1-3
- Konecky, B.\*, Cohen, L.R., Russell, J.M., Vuille, M., Huang, Y., Street-Perrot, A. "East African Droughts of the Last 2 Millennia: Insights from Compound-Specific Hydrogen Isotopes at Sacred Lake, Mount Kenya." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 13-17
- Russell, J.M.,\* Bijaksana, S., Wattrus, N.J., Noren, A.J., **Konecky, B.,** Wicaksono, S.A. "Late Pleistocene and Holocene hydrological change in central Indonesia from Lake Towuti, Sulawesi." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 13-17
- Konecky, B.\*, Russell, J.M., Johnson, T.C., Brown, E.T., Berke, M., Werne, J.P., Huang, Y. "Hydrogen isotopic responses to late Pleistocene climate change in Lake Malawi, Africa." Geological Society of America Annual Meeting, Denver, CO, Oct 31-Nov 3
- **Konecky, B.\*,** Russell, J.M., Johnson, T.C., Huang, Y., Werne, J., Woltering, M. "A 75,000-Year Precipitation Record from Lake Malawi, Africa Based on Compound-Specific D/H Ratios." American Geophysical Union Fall Meeting, San Francisco, CA, Dec 14-18

### TEACHING EXPERIENCE

# Professor (sole instructor), Department of Earth and Planetary Sciences, Washington University

Paleoclimatology (EPSc 486). Upper level undergraduate/graduate. Spring 2018, 2020, 2021.

First-Year Seminar: Unearthing the Science of Climate Change (EPSc 141). First-year undergraduate. Spring 2019.

*The Earth's Climate System* (EPSc 386/586). Upper level undergraduate/graduate. Fall 2019, 2020.

# Teaching Assistant, Department of Earth, Environmental, and Planetary Sciences, Brown University

Fall 2012 Sedimentation & Stratigraphy (including laboratory and field trips)

Pedagogical Training, Sheridan Center for Teaching & Learning, Brown University

2011 Certificate Program I: Reflective Teaching, Syllabus Design, Evaluation, and

Persuasive Communication

2009-2011 Graduate Teaching Liaison and TA Trainer

# **Curriculum Development, Department of Earth, Environmental, and Planetary Sciences, Brown University**

2011-2012 Curriculum designer, course organizer, and lecturer, African Climate, Ecology,

and Statistics Mini-Course

New laboratory and field curriculum for *Environmental Geochemistry* 

### STUDENT AND POSTDOCTORAL ADVISING

# **Advisor, Postdoctoral (Washington University)**

2019- Georgina Falster, Department of Earth and Planetary Sciences

### Advisor, Ph.D. students (Washington University)

2018- Jarunetr (Nadia) Sae-Lim, Earth and Planetary Science
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2020- Alessandro Antúnez de Mayolo Mauceri, Earth and Planetary Sciences

2020- Andrew Flaim, Earth and Planetary Sciences

### **Committee member, Graduate committees (Washington University)**

2019-2020	R. Seth Wood, Earth and Planetary Sciences (Oral examination committee)
2017-2020	R. Seth Wood, Earth and Flanciary Sciences (Oral examination committee)

2018-2019 Scott Beeler, Earth and Planetary Sciences (Ph.D. defense committee)

2017-2018 Madison Hughes, Earth and Planetary Sciences (Oral examination committee)

### Committee member, External graduate committees

2017-2018 Heather Guy, Geography, Appalachian State University (MSc committee)

# Advisor, Undergraduate major advisees (Washington University)

2019-	Jonah Bernstein,	Maior:	Environmental	Earth Science

2019- Flora Perlmutter, Major: Geochemistry

2020- Jennifer Kuriloff, Major: Environmental Earth Science 2020- Izzy Yanover, Major: Environmental Earth Science

# Research Advisor, Undergraduate research advisees carrying out capstone research (Washington University) (\* denotes honors thesis student)

2021-	*Flora Perlmutter, Department of Earth and Planetary Sciences
2021-	Aida Zyba, Department of Earth and Planetary Sciences
2020-	Allie Sheets, Department of Earth and Planetary Sciences
2020-	Jonah Bernstein, Department of Earth and Planetary Sciences
2018-2019	*Hammy Sorkin, Department of Earth and Planetary Sciences
2018-2019	*Benjamin Tiger, Department of Earth and Planetary Sciences

# Committee member, Undergraduate thesis committees (Washington University)

2017-2018	Lauren Johnson, Department of Earth and Planetary Sciences
2017-2018	Lily Sanborn, Departments of Earth and Planetary Sciences & Anthropology

# **Graduate Mentor, Undergraduate research mentoring (Brown University)**

2009-2013 Kassandra Costa, Lily Cohen, Rebecca Smith, Department of Earth, Environmental, and Planetary Sciences

### FIELD EXPERIENCE

2019	Soil, vegetation, and archaeological surveys, Peruvian Andes
2018	Sediment coring and limnological surveys, Lake Sibinacocha, Peruvian Andes
2018	Isotope hydrometeorology and farmer rainfall observations, Albertine rift, Uganda
2016	Isotope hydrology, rainfall, and water quality surveys, Okavango Delta, Botswana
2015	Climate, rain, vapor, seawater isotope surveys, Galápagos Islands, Ecuador
2013	Lake Towuti water chemistry and airgun seismic surveys, Sulawesi, Indonesia
2012	Prince Pond sediment coring, Rhode Island, USA
2010	Paleoenvironmental assessments of archaeological excavation sites, Petra, Jordan
2010	Field & lab training, "IsoCamp" summer course, SIRFER, University of Utah
2008	Agroforestry, soils, land use, and land degradation assessment, Tigray, Ethiopia
2007	Agroforestry, soils, land use, and land degradation assessment, Ruhiira, Uganda
2005	Chemical oceanographic survey in the Costa Rica Upwelling Dome (R/V Knorr)
2005	Amphibian and chytridiomycosis surveys, Lake Sibinacocha, Peruvian Andes
2004	Amphibian and chytridiomycosis surveys, Lake Sibinacocha, Peruvian Andes
2003	Coral reef fish parasitology, Ocean Biome, Biosphere 2 Center, Arizona

### **MEDIA COVERAGE**

Subject of "Highlands Hunt for Climate Answers" magazine feature in upcoming 2021 (Spring 2021) Washington University Magazine. 2021 Subject of short film (current working title: "Sacred Sediments") produced by Wash U Public Affairs, to be released in Spring 2021. 2020 Appearance (along with Ph.D. student Sae-Lim at our Peruvian field site) in National Geographic International documentary "Lost Temple of the Inca," currently being aired on National Geographic Channel. https://www.imdb.com/title/tt11668444/ 2019 Profiled for student life newspaper: Harsoor, D. "The Path to the Packard: Bronwen Konecky pushes the envelope in climate research." Student Life, 11/17/2019. https://www.studlife.com/scene/2019/11/17/the-path-to-the-packardbronwen-konecky-pushes-the-envelope-in-climate-research/ 2019 Interviewed for article about the Paris Agreement: Ogliore, T. "WashU Experts on the U.S. Withdrawal from the Paris Agreement." The Source, 11/5/2019. https://source.wustl.edu/2019/11/washu-experts-on-the-u-s-withdrawal-from-theparis-agreement/ 2019 Profiled for Arts & Sciences Podcast: Fogerty, C. "Mud cores, rain gauges, and the hunt for climate data." Hold That Thought Podcast, 10/16/2019 (interview recoreded May 2019) https://soundcloud.com/hold-that-thought/mud-cores-raingauges-and-the-hunt-for-climate-data Transcript: https://artsci.wustl.edu/ampersand/mud-cores-rain-gauges-and-huntclimate-data 2019 Featured in article about Packard fellowship: Ogliore, T. "Climate Scientist Konecky Named Packard Fellow." The Source, 10/15/2019. https://source.wustl.edu/2019/10/climate-scientist-konecky-named-packardfellow/ 2019 New GRL paper described for general public: Ogliore, T. "Understanding tropical rainfall, both past and present." The Source, 2/6/2019. https://source.wustl.edu/2019/02/understanding-tropical-rainfall-both-past-andpresent/ (Reblogged on phys.org and Futurity.org, "Details inside raindrops hint at future water sources")

#### PROFESSIONAL AND PUBLIC ENGAGEMENT

### **International Leadership**

- 2019- **PAGES2K Network Coordinator,** Past Global Changes (PAGES) Program, Future Earth (one of 6 international coordinators, ~500 participants, ~80 main consortium members)
- Founder and Coordinator, *PAGES Iso2k Project* (Hydroclimate of the Past Two Millennia), (~30 active members in 10+ countries)
- 2018- Member, Working Group on Observations and Modeling of Water Isotopes in the Climate System, US Climate Variability and Predictability Program (US CLIVAR)
- 2017 **Member**, *Advisory panel on paleoclimate metadata design*, *NOAA NCEI World Data Center for Paleoclimatology* (expertise: Paleolimnology)

### **Service to Profession**

- 2016 **Session Convener**, "Quantitative Approaches to Paleoclimate Data, Models, and Their Intercomparison," AGU Fall Meeting, San Francisco, CA, Dec 12-16
- 2015 **Session Convener**, "It takes two: Using paleodata and climate models to understand climate dynamics," AGU Fall Meeting, San Francisco, CA, Dec 14-18
- 2014 **Session Convener**, "Water Isotope Systematics: Improving Paleoclimate Interpretations," AGU Fall Meeting, San Francisco, CA, Dec 15-19
- 2011-present Reviewer for Nature; Proceedings of the National Academy of Sciences; Nature Communications; Earth and Planetary Science Letters; Geophysical Research Letters; Geology; Quaternary Science Reviews; Palaeogeography, Palaeoclimatology, Palaeoecology; Journal of Arid Environments; Paleolimnology; International Journal of Climatology; Climate of the Past; The Holocene; Journal of Geophysical Research-Atmospheres; NSF Paleoclimate Program (GEO directorate); NSF Geographic and Spatial Sciences Program (BIO directorate)

### **Service to University**

2020-2021 Committee Member, Digital Transformation in Arts & Sciences. Committee to advise Arts & Sciences Dean on selection of departmental faculty hiring proposals as part of the new Digital Transformation hiring initiative.

2020-	Executive Committee, Washington University Climate Change Program. Selected as one of 6 campus leaders to provide leadership and guidance on strategic planning, identification of priorities, and budget for the WUCCP.			
2019-2020	<b>Faculty Coordinator, Graduate Group on Climate Change,</b> group for graduate students and postdocs from all Washington University schools to promote cross-disciplinary scholarship and professional development on climate change topics (coordinating with Lora Ianotti, Associate Dean for Public Health at the Brown School; and Beth Martin, Acting Director for WU Climate Change Program)			
2019	Climate Change Panelist, Alumni Weekend, Washington University (4/13/19)			
2018-2020	Steering Committee, Washington University Climate Change Program (Subcommittee: Research)			
2018	Invited speaker, "Little Ice Age: Geology, History, and the Archive" (with Venus Bivar, Department of History), Environmental Studies Graduate Dinner Discussion, 4/4/2018			
Service to Department				
2020-present	Chair, Colloquium Committee, Department of Earth and Planetary Sciences, Washington University. Includes spearheading resdesign of colloquium speaker selection process to broaden diversity and reformatting colloquium for virtual format during COVID campus closure.			
2019	<b>TA Awards Committee</b> for Levin Award, Tolman Award, and Letters of Recognition			
2019	Member, Search Committee, Lecturer position in Environmental Earth Science, Department of Earth and Planetary Sciences, Washington University			
2018-present	Member, Undergraduate Curriculum Committee, Department of Earth and Planetary Sciences, Washington University			
Service to the Public				
Public science communication and engagement				
2014-21	Active climate communicator on Twitter (@other_rock), >2000 followers.			
2018	<b>Panelist,</b> <i>The IPCC Special Report on 1.5 Degrees</i> , Washington University, St. Louis, MO, November 15, 2018			

2017 Panelist, Assembly Series: The Science of Climate Change. With Gavin Schmidt (NASA), and Ira Flatow (NPR/PRI "Science Friday"). Washington University, St. Louis, MO, September 18, 2017 2015 Public lecture, "The geologic perspective on climate change." Café Scientifique @ West Flanders Brewing Company, Boulder, CO, September 8, 2015 2014 Author, "Geoscientist and singer-songwriter shares her creative side at AGU's Open Mic Night – and you can, too," AGU Plainspoken Scientist Blog, December 8, 2014 2012 Personal lab tour and paleoclimatology info session for Senator Sheldon Whitehouse (D-RI), Brown University, Providence, RI Diversity, equity, and inclusion in the Earth Sciences 2018 Host to first-year student and subject of student project on women scientists, Women in Science First-Year Ampersand Program, Washington University Department of Gender & Sexuality Studies, Fall 2018 2015-2017 Formal mentor to 3 undergraduate STEM women at U. Colorado and Colorado College, Project PROGRESS (Promoting Geoscience Research, Education, and Success), Boulder, CO & Colorado Springs, CO, Oct. 2015-May 2017 2016 Moderator, "Continuing geoscience and diversity work in a changing world" pop-up panel, AGU Fall Meeting, San Francisco, CA, Dec 14 2016 Featured scientist, Science, music, and diversity podcast for Physics World. Episode title: "Rocking the Status Quo in Science." (http://physicsworld.com/cws/article/ multimedia/2016/jan/27/rocking-the-status-quo-in-science) January 2016 2015-2016 Keynote speaker, "Career paths in the geosciences: The straight and the twisty," and panelist, "Pathways in geosciences: the personal and the professional," PROGRESS Mentoring workshop for STEM undergraduate women, Estes Park, CO, October 2015 & October 2016 2013-2015 Founder, Women in Earth & Atmospheric Sciences (WiGS), Georgia Institute of Technology, Atlanta, GA 2012-2013 Founder and Leader, Graduate Student Peer Mentoring Program, Department of Earth, Environmental, and Planetary Sciences, Brown University, Providence, RI

2011-2013 **Leader,** *Geo-Graduate Women in Science and Engineering,* Department of Earth, Environmental, and Planetary Sciences, Brown University, Providence, RI

# PROFESSIONAL ASSOCIATIONS

American Geophysical Union Geological Society of America American Association for the Advancement of Science Earth Science Women's Network