

KENDRA L. CHRITZ

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Department of Earth, Ocean and Atmospheric Sciences
The University of British Columbia
2020-2207 Main Mall
Vancouver, B.C. V6T 1Z4

EDUCATION

Ph.D. University of Utah (2015)
Thesis advisor: Thure E. Cerling
Dissertation: Isotopic records of (paleo)ecological variability in Kenya.

B.S. *cum laude* University of Portland; major: Biology, minor: Chemistry (2009)

CURRENT APPOINTMENTS

2021-present Assistant Professor, Department of Earth, Ocean and Atmospheric Sciences

2021-present Fossil Collections Director, Beaty Biodiversity Museum

2021-present Steering Committee, Pacific Centre for Isotopic and Geochemical Research (PCIGR), UBC

2019-present Research Associate, Smithsonian Institution - National Museum of Natural History, USA

2021-present Research Associate, Department of Earth Sciences, University of Oregon, USA

PAST APPOINTMENTS

Instructor, Department of Geography, University of Oregon, 2019 - 2021

Co-director of the Isotopic Paleoecology Laboratory, University of Oregon, 2019 - 2021

Postdoctoral Fellow, Smithsonian Institution, 2017-2019

Research Affiliate, Natural History Museum of Utah, 2015 - 2017

Postdoctoral Scholar, Urban Ecology lab, University of Utah, 2015 - 2017

Research Affiliate, National Museums of Kenya, 2009-2013

Research Assistant, University of Utah, 2009-2010

Undergraduate Researcher, National Museums of Ireland - Natural History, 2007

GRANTS AND FELLOWSHIPS

Active funding (Total: \$5,932,001 CAD)

2025-2026: co-I, SSHRC Insight Development Grant. New Insights on Mesoamerican Human Sacrifice from Two Postclassic Mesoamerican Civilizations through Decolonial, Proteomic, and Isotopic Approaches. PI: D. Moreiras, C. Speller (co-I). \$63,000 CAD

2024-2027: collaborator, NSF, Collaborative Research: Late Pliocene Oldowan behavior and ecology from Nyayanga, Kenya. PI: T. Plummer (CUNY) and E. Finestone (CMNH), \$307,532 USD

2024-2026: co-applicant, UBC Grants for Catalyzing Research Clusters, Repositories and Data Curation. "Relational Spaces: Addressing the Global Heritage Curation Crisis in the Age of UNDRIP (United Nations Declarations on the Rights of Indigenous Peoples)". PI: C. Speller + 15 other applicants (\$200,000 CAD).

2024-2025: co-applicant, UBC Teaching and Learning Enhancement Fund. "Implementing the Environmental Science (ENSC) Curriculum Renewal". PI: T. Ivanochko + 12 other co-applicants (\$200,000 CAD).

2023-2028: co-PI, NSF Frontier Research in Earth Sciences Program. "Collaborative Research: How did Terrestrial Ecosystems Rebuild Following the Cretaceous/Paleogene Mass Extinction?", Lead PI: T. Lyson; Co-PIs: R. Barclay, H. Fricke, T. Them, S. Chester, J. Sepúlveda, D. Krause, E. Currano (Total funding: \$2.9M USD); UO portion to S. Blumenthal, K. Chritz (\$291,498 USD)

2022-2027: PI, Canadian Foundation for Innovation - John R. Evans Leaders Fund. "Laboratory for the advanced study of dietary ecology of modern and ancient organisms" (\$331,240 CAD)

2021-2027: PI, NSERC Discovery Grant. "Novel geochemical methods for assessing trophic ecology in modern and ancient ecosystems" (\$160,500 CAD)

2022-2025: co-applicant, NSERC Research Tools and Instruments (RTI). "Critical Clean Water Technologies for Earth System Biogeochemical Research". Lead applicant: M. Maldonado, co-applicants: C. Suttle, R. Beckie, R. Andersen, R. Francois, A. Orsi (\$67,723 CAD)

2021-2024: co-PI, NSF. "Did an increasingly carnivorous *Homo erectus* cause Pleistocene mammal extinctions?", PI: A. Barr, co-PI: A. Du (\$90,099 USD)

2021-2025: co-PI, NSF. "Collaborative Research: Human and material mobilities among fisher-hunter-gatherer and early pastoralists in northwestern Kenya", Lead PI K. Grillo (\$299,727 USD); UT Knoxville portion to A. Janzen, K. Chritz (\$102,642 USD)

Completed grants and fellowships

2023-2024: co-PI, UBC STAIR grant, "Variability and Food (In)security in the Global South: Insights through Archaeology and Isotope Geochemistry". PI: A. Alaica (\$45,000 CAD)

2020-2024: co-I, Turkana Basin Institute. "Lothagam: Paleoecosystems of Hominin Origins", PI: J. Rowan (\$100,485 USD)

2021-2022: co-applicant, Research Facility Support Grants, University of British Columbia.

Lead applicant: D. Weis, co-applicant: A. Martindale (\$50,000 CAD)

2021-2022: lead applicant, Research Facility Support Grants, University of British Columbia.
Co-applicants: P. Tortell, A. Orsi, C. Suttle, R. Beckie, R. Anderson, M. Maldonado, R. Pawlowicz, U. Mayer, C. Payne (\$50,000 CAD)

2018-2019: Secretary's Distinguished Research Fellowship, Smithsonian Institution(\$53,000)
2017-2018: Stable Isotope Postdoctoral Fellowship, Smithsonian Institution (\$49,600)
2013: Global Change and Sustainability Center student research grant (\$2,800)
2012: Geological Society of America student research grant (\$1,850)
2011: National Geographic Young Explorers Grant (\$5,000)
2010-2015: National Science Foundation Graduate Research Fellowship (\$126,000)
ASUU Biology Graduate Student Advisory Committee travel grants (3 separate, total: \$1,700)

PUBLICATIONS IN PREPARATION

Blumenthal SA, **Chritz KL**, Manthi FK, Strum S, Ditchfield PW, Dumouchel L, Wambua F, **Cerling TE**, Lee-Thorp J. Isotopic evidence for individual dietary behavior reveals niche diversification among early hominins. *rejected from Science after review, in preparation for resubmission.*

Chritz KL, Beck C. 1.14: Geology of the Late Pleistocene - Holocene deposits. In: *Geology of the Turkana Basin, Volume 1*. University of Utah Press. Expected publication date: 2026

Cerling TE, Uno KT, Elheringer J, Blumenthal SA, **Chritz KL**. 3.3: Distribution of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in modern plants in Kenya and nearby countries. In: *Geology of the Turkana Basin, Volume 3*. University of Utah Press. Expected publication date: 2026

Cerling TE, Patterson B, Wood B, Leakey L, Manthi F, Blumenthal SA, **Chritz KL**, Uno K, Lee-Thorp J, Sponheimer M, Wynn J, Alemsegaad Z, Negash E. 3.10: Hominin diets in the Turkana Basin - stable isotope evidence. In: *Geology of the Turkana Basin, Volume 3*. University of Utah Press. Expected publication date: 2026

Blumenthal SA, **Chritz KL**, Manthi F, Lee-Thorp J, Cerling TE. 3.9: Non-hominin primate diets in the Turkana Basin. In: *Geology of the Turkana Basin, Volume 3*. University of Utah Press. Expected publication date: 2026

Chritz KL, Kinyanjui R, Beck C. 3.14: Holocene paleoenvironments. In: *Geology of the Turkana Basin, Volume 3*. University of Utah Press. Expected publication date: 2026

Chritz KL, Grillo KM, Dunne J, Ndemia E, Sawchuk E, Marshall F, Blumenthal SA, Lee-Thorp J, Manthi FK, Hildebrand E, Goldstein S, Janzen A, Odede F, Plummer T, Kiura P, Robertshaw P, Cerling TE, Evershed RP. Niche construction and dietary specialization among early herders in eastern Africa. *In prep.*

PEER-REVIEWED PUBLICATIONS

In revision. Kinyanjui R, Mashaka HK, **Chritz KL**, Wemenya SN, Ndiema EK, Braun DR, Bamford M. Holocene vegetation dynamics of the Koobi Fora basin, East Turkana, Kenya: Insights from phytolith data. *Quaternary International*.

In revision. Hildebrand EA, Grillo KM, **Chritz KL**, Goldstein ST, Janzen A, Ndiema E, Sawchuk E, Shea JJ, Beyin A, Conyers L, Chepkorir C, Ekusi J, Enyang G, Helper M, Klehm C, Ngugi C, Pfeiffer SK, Smith BD. The last 15,000 years around Lake Turkana: Contributions from the Later Prehistory of West Turkana project. In an upcoming volume in honor of the life and research of Richard Leakey, title TBD (Springer).

(18) **Chritz KL**. 2025. Geochemical Explorations of Trophic Interactions: Beyond “Who’s Eating Whom”. In: *Treatise on Geochemistry, 3rd Edition (Elsevier)*, doi.org/10.1016/B978-0-323-99762-1.00044-9.

(17) Negash E, Alemseged Z, Barr AW, Behrensmeyer AK, Blumenthal SA, Bobe R, Carvalho S, Cerling TE, **Chritz KL**, McGuire E, Uno KT, Wood BA, Wynn JG. 2024. Modern African ecosystems as landscape-scale analogues for reconstructing woody cover and early hominin environments. *Journal of Human Evolution* 197: 103604.

(16) Goldstein S, Hixon S, Wolfhagen J, Iminjili V, Janzen A, **Chritz K**, Ndiema E, Sealey J, Stone A, Zoeller G, Fernandes R. Presenting the AfriArch isotopic database. 2022. *Journal of Open Archaeology Data*, doi.org/10.5334/joad.94.

(15) Hildebrand E, Grillo K, **Chritz KL**, Fischer M, Goldstein ST, Janzen A, Junginger A, Kinyanjui R, Ndiema E, Sawchuk E, Beyin A, Pfeiffer SK. 2022. Buffering new risks? Environmental, social and economic changes in the Turkana Basin during and after the African Humid Period. *The Holocene*, doi.org/10.1177/09596836221121766.

(14) Manthi FK, Cerling TE, **Chritz KL**, Blumenthal SA. 2020. Stable isotope reconstruction using the micromammal and macromammal fauna at Kanapoi, Kenya. *Journal of Human Evolution* 140:102338.

(13) **Chritz KL**, Cerling TE, Freeman KH, Hildebrand EA, Janzen A, Prendergast M. Climate, ecology and the spread of herding in eastern Africa. 2019. *Quaternary Science Reviews* 204(15):119-132.

(12) Blumenthal SA, Levin NE, Brown FH, Brugal JP, **Chritz KL**, Cerling TE. Diet and evaporation sensitivity in African ungulates: A comment on Faith (2018), *Palaeogeography, Palaeoclimatology, Palaeoecology*, 506:250-251.

(11) Blumenthal SA, Levin NE, Brown FH, Brugal JP, **Chritz KL**, Harris JM, Jehle GE, Cerling TE. Aridity and hominin environments. 2017. *Proceedings of the National Academy of Sciences* 114(28): 7331-7336.

- (10) **Chrutz KL**, Blumenthal SA, Klingel H, Cerling TE. Vegetation and *Hippopotamus* diet change following megaherbivore population collapse. 2016. *Nature - Scientific Reports*, 6:32807, doi:10.1038/srep32807.
- (8) Blumenthal SA, Rothman JM, **Chrutz KL**, Cerling TE. 2016. Stable isotopic variation in tropical forest plants for applications in primatology. *American Journal of Primatology* 78(10):1041-1054.
- (9) Tryon CA, Faith JT, Peppe DJ, Beverly E, Blegen N, Blumenthal SA, **Chrutz KL**, Driese S, Sharp W. 2015. Pleistocene prehistory of the Lake Victoria Basin. *Quaternary International* 404:100-114.
- (7) Cerling TA, Andanje SA, Blumenthal SA, Brown FH, **Chrutz KL**, Harris JM, Hart J, Kirera, Kaleme P, Leakey LN, Leakey MG, Levin NE, Manthi FK, Passey BH, Uno KT. 2015. Dietary changes of large herbivores in the Turkana Basin, Kenya from 4 to 1 million years ago. *Proceedings of the National Academy of Sciences* 112(37): 11467-11472.
- (6) **Chrutz KL**, Marshall F, Zagal ME*, Kirera F, Cerling TE. 2015. Environments and trypanosomiasis risks for early herders in the later Holocene of the Victoria Basin, Kenya. *Proceedings of the National Academy of Sciences* 112(12):3674-3679.
*undergraduate student
- (5) Faith JT, Tryon CA, Peppe DJ, Beverly E, Blegen N, Blumenthal S, **Chrutz KL**, Driese SG, Patterson D. 2015. Middle Stone Age archaeology and paleoenvironmental record from Karungu, Lake Victoria Basin, Kenya. *Journal of Human Evolution*, 83:28-45.
- (4) Blumenthal SA, Cerling TE, **Chrutz KL**, Bromage TG, Reinhard K, Valley JW. 2014. Stable isotope time-series in mammalian teeth: *in situ* $\delta^{18}\text{O}$ from the innermost enamel layer. *Geochimica et Cosmochimica Acta*, 124(1):223-236.
- (3) Cerling TE, **Chrutz KL**, Jablonski NG, Leakey MG, Manthi FK. 2013. Diet of *Theropithecus* from 4 to 1 Ma in Kenya. *Proceedings of the National Academy of Sciences*, 110 (26): 10507-10512.
- (2) Blumenthal SA, **Chrutz KL**, Rothman JM, Cerling TE. 2012. Detecting intra-annual dietary variability in wild mountain gorillas by stable isotope analysis of feces. *Proceedings of the National Academy of Sciences*. 109(52) 21175-21176.
- (1) **Chrutz KL**, Dyke GJ, Zazzo A, Lister A, Monaghan NT, Sigwart JD. 2009. Palaeobiology of an Extinct Ice Age Mammal: Stable Isotope and Cementum Analysis of Giant Deer Teeth. *Palaeogeography, Palaeoclimatology, Palaeoecology* 282:133-144.

NON PEER-REVIEWED PUBLICATIONS

Chrutz KL, Marshall FB. Safe Passage South: As the East African climate changes in the last

millennium BC, herders found a tsetse-free pathway to new pastures. *Natural History Magazine*, June 2015.

Chritz KL. Tooth enamel provides clues on tsetse flies and the spread of herding in Africa. *The Conversation*, March 10, 2015.

AWARDS AND HONORS

Smithsonian Institution's Secretary's Distinguished Research Fellowship
Society of Vertebrate Paleontology Romer Prize, finalist
University of California President's Postdoctoral Fellowship, finalist
University of Utah Riser Award for Outstanding Graduate Research

INVITED TALKS AND LECTURES

Department of Anthropology, UBC, February 2024
UC Merced, Environmental Systems Science seminar, October 2023, USA
Turkana Basin Institute Field School guest lecturer, June 2023, Kenya
Green College Leading Scholars Series, University of British Columbia, March 2023
Scientific QUEERIES Seminar, February 2023, online
Max Planck Institute for the Science of Human History, March 2022, online
2nd PAGES Human Traces workshop, September 2021, online
The University of British Columbia, January 2020, Vancouver B.C.
Stony Brook University, April 2019, Stony Brook NY
University of Oregon, October 2018, Eugene OR
Museum Conservation Institute, Smithsonian Institution, June 2018, Washington D.C.
Max Planck Institute for Biogeochemistry, March 2018, Jena Germany
Yale University, February 20th and 21st 2018, New Haven CT
The George Washington University, Nov 2017, Washington D.C.
National Museum of Natural History, Oct 2017, Washington D.C.
National Geographic Society, Sept 2017, Washington D.C.
St. Mary's University "Women in Ecology" webinar, Sept. 8 2017
University of New Mexico, Sept. 19 2015, Albuquerque NM
Northern Illinois University, May 5 2015, Dekalb IL
Utah Friends of Paleontology, March 2015, Salt Lake City UT
University of Portland, August 2011, Portland OR

TEACHING EXPERIENCE

2024: EOSC 116, Mesozoic Earth; ENVR 200, Intro to Environmental Science
2023: EOSC 333, Geochemistry; ENVR 200
2022: University of British Columbia, ENVR 200
2021: University of Oregon, The Natural Environment, GEOG 141, 4 credits

Anthropocene Earth, GEOG 607, 4 credits
2020: University of Oregon, The Natural Environment, GEOG 141, 4 credits
Exploring Earth's History, GEOL 103, 4 credits
Biogeography, GEOG 323, 4 credits
2019: University of Oregon, Biogeography of Africa, GEOG 423/523, 4 credits
Biogeography, GEOG 323, 4 credits
2010 – 2011, 2014: TA, Mammology (BIOL 5370); TA, Evolution and Diversity of Life (BIOL 2010), University of Utah
2007 - 2009: Organic Chemistry Lab TA, University of Portland
2006 - 2008: General Biology workshop leader, University of Portland

ADVISING

Graduate students, primary advisor

Emma Betz (Ph.D., UBC EOAS, in progress; NSERC PGS-D 2022-2025)

Amelia Hurst (Ph.D., UBC EOAS, in progress; UBC Four Year Fellowship 2023-2027)

Graduate students, committee member

Samuel Martin (Ph.D., UBC EOAS, in progress)

Doris Fogarty (MSc., UBC Anthropology, in progress)

Undergraduate students

Cecelia Chisdock (George Washington University)

M. Esperanza Zagal (Johns Hopkins University)

Samantha King (University of Utah)

SYMPOSIA ORGANIZED

Reconstructing hominin paleoenvironments and paleoecology in Africa using stable isotopes: an integrative approach. *American Association of Physical Anthropologists (AAPA) Annual Meeting 2016*, Atlanta, Georgia, 12-16 April.

MEDIA

Publications have been featured in The Atlantic, Natural History Magazine, The New York Times, Science Daily, IFLScience, PhysOrg, NSF Science360 News, The Conversation, BBC Earth News, Scientific American and Yahoo News.

2022: *BC's Fossil Bounty* Season 1, Episode 6: <https://youtu.be/sqv76uBl8pg>

2021: Pacific Museum of Earth podcast "On Earth".

<https://www.eoas.ubc.ca/news-events/news/16214940002>

2013: Interview for KRCL 90.9 radio program "The Beehive".

<http://www.publicbroadcasting.net/krci/news.newsmain/article/9808/0/1950488/The.Beehive/The.Beehive..81>

2013: National Geographic Explorer of the Week profile.

<http://www.nationalgeographic.com/125/exploration-moments/explorer-moment-of-the-week-kendra-chritz/>

2012: National Geographic Explorer's Bios.

<http://www.nationalgeographic.com/explorers/bios/kendra-chritz/>

2011: University of Portland "Rising Stars" profile.

<http://www.up.edu/about/default.aspx?cid=11593&pid=6679>

PROFESSIONAL PRESENTATIONS

**student author/co-author*

A. Hurst*, S. Newsome, A. Martinez*, K. Prufer, N. Neff*, **K.L. Chritz**. King of the Jungle No More: Compound Specific Isotope Analysis Reveals Lions May Not Be the Top of the Savanna Food Web. IsoEcol, August 2024, Fredericton New Brunswick, Canada.

K.L. Chritz. Geochemical Explorations of Trophic Interactions in the Past and Present: Beyond "Who's Eating Whom". Goldschmidt, August 2024, Chicago USA.

K. L. Chritz, Sawchuk E, Grillo KM, Goldstein S, Hildebrand H, Janzen A, Prendergast M, Cerling TE. Dietary shifts and specialization among fisher-foragers and pastoralists in eastern Africa from 10,000 BP to present. EAAPP, August 2024, Addis Ababa Ethiopia.

D. Caldwell*, L. Harrington, C. Chepkorir, E. Wilson, **K. Chritz**, S. Goldstien, K. Grillo, A. Janzen, E. Ndiema, E. Hildebrand, E. Sawchuk. New osteobiographical insights into early Holocene fisher-foragers from Lothagam Lokam, northern Kenya. Canadian Association for Biological Anthropology, October 2022, Saskatoon Saskatchewan

E. Sawchuk, L. Harrington, D. Caldwell*, C. Chepkorir*, E. Wilson*, **K. Chritz**, S. Goldstien, K. Grillo, A. Janzen, E. Ndiema, E. Hildebrand. Early Holocene fisher-foragers constructed a massive cemetery on the shores of Lake Turkana, Kenya. Canadian Association for Biological Anthropology, October 2022, Saskatoon Saskatchewan

S. Blumenthal, **K. Chritz**. Herbivore diets and ecosystem change in eastern Africa. Eastern African Association for Paleontology and Paleoanthropology, August 2022, Arusha Tanzania

J. M. Wainwright*, **K. Chritz**, K. Grillo, E. Hildebrand, A. Janzen, S. Pfeiffer, D. Reed, E. Sawchuk, S. Blumenthal. Stable isotope analysis of micromammal teeth for environmental reconstruction at an early herder cemetery, Lothagam North (Turkana, Kenya). Eastern African Association for Paleontology and Paleoanthropology, August 2022, Arusha Tanzania

Chritz KL. 2021. Complicated human dietary dynamics throughout the Holocene in Kenya. Society for Africanist Archaeologists Biennial Meeting. On isotopes and old bones: A session in honour of Julia Lee-Thorp. Oxford, U.K., (online).

Chritz KL, Chisdock C*, France CM, Potts R. 2018. Contextualizing Environmental Reconstructions using Historical Ecology: Insights from the Smithsonian-Roosevelt African Expedition (1909-1910). Session PP24A-04B (podium); American Geophysical Union Fall Meeting, Washington, D.C..

Chritz KL, Buchert M, Walker JC, Mendoza D, Pataki DE, Xu X, Lin JC. 2017. Radiocarbon Records of Fossil Fuel Emissions From Urban Trees in the Greater Salt Lake Valley From Mid-Century to Present. American Geophysical Union Fall Meeting, New Orleans, Louisiana.

Pataki DE, Cogley L, Smith RM, Ehleringer JR, **Chritz KL.** 2017. Isotopic Recorders of Pollution in Heterogeneous Urban Areas (Invited). American Geophysical Union Fall Meeting, New Orleans, Louisiana.

Chritz KL. 2016. Paleoeological response to climate in East Africa is locally specific. Society for Vertebrate Paleontology 76th Annual Meeting (Romer Prize session podium talk), Salt Lake City, Utah.

Chritz KL, Hildebrand EA, Freeman KH, Cerling TE. 2016. Environmental change in Kenya following a strong/weak monsoon transition: implications for the Pleistocene paleoenvironmental record. American Association of Physical Anthropology 85th Annual Meeting (poster), Atlanta, Georgia.

Cerling TE, Blumenthal SA, Bishop LC, **Chritz KL,** Ditchfield PW, Leakey M, Manthi F, Plummer TW. 2016. Diets of Plio-Pleistocene Cercopithecidae from the Lake Turkana and Lake Victoria regions, Kenya. American Association of Physical Anthropology 85th Annual Meeting, Atlanta, Georgia.

Blumenthal SA, Levin NE, Cerling TE, Brown FH, **Chritz KL,** Harris JM, Jehle GE. 2016. Terrestrial aridity and Plio-Pleistocene hominin environments. American Association of Physical Anthropology 85th Annual Meeting, Atlanta, Georgia.

Johnson CA, Blumenthal SA, **Chritz KL,** Cerling TE, Rothman JM. 2016. Nutritional and isotopic correlates of diet in forest-living olive baboons (*Papio anubis*). American Association of Physical Anthropology 85th Annual Meeting, Atlanta, Georgia.

Chritz KL, Hildebrand EA, Cerling TE. 2014. Isotopic indicators of terrestrial ecosystem change in the Turkana Basin: Implications for the Holocene archaeological record. Society for American Archaeology 79th Annual Meeting (podium; invited), Austin, Texas.

Blumenthal SA, Levin NE, Plummer TW, Ditchfield PW, Bishop LC, **Chritz KL,** Whitfield L, Potts R, Cerling TE. 2014. The aridity index revisited: recalibration and application to the early

Pleistocene of the Lake Victoria Basin, western Kenya. Geological Society of America annual meeting, Vancouver BC.

Faith JT, Tryon CA, Peppe DJ, Beverly E, Blegen N, Blumenthal SA, **Chritz KL**, Patterson D. 2014. Late Pleistocene archaeology and paleoenvironments of Karungu in the Lake Victoria Basin, Kenya. PaleoAnthropology 2014.

Chritz KL, Cerling TE. 2013. Isotopic indicators of monsoon-induced terrestrial ecosystem change in the Turkana Basin, Kenya: implications for the fossil record. (poster) JVP, Program and Abstracts, 2013:88-89.

Chritz KL and Cerling TE. 2013. Isotopic indicators of Holocene monsoon-induced terrestrial ecosystem change in the Turkana Basin. East African Association for Paleoanthropology and Paleontology (podium). Mombasa, Kenya.

Blumenthal SA, **Chritz KL**, Cerling TE, Bromage TG, Kozdon R, Valley JW. 2013. Stable isotope time-series in teeth: targeting the innermost enamel layer. American Journal of Physical Anthropology Suppl. 56, 84.

Blumenthal SA, **Chritz KL**, Cerling TE, Rothman JM. 2012. Integrating the stable isotope and nutritional ecology of an East African forest. American Journal of Physical Anthropology Suppl. 54, 101.

Blumenthal SA, **Chritz KL**, Cerling TE, Rothman JM. 2011. Stable isotopes in wild gorilla feces document seasonal dietary change and rainfall patterns. American Journal of Physical Anthropology Suppl. 52, 92.

Andanje SA, **Chritz KL**, Cerling TE. 2010. Comparison of the lifetime histories of hippos from different environments using stable isotopes. (podium). JVP 30(3):79A.

Chritz KL, Dyke GJ, Zazzo A, Lister A, Monaghan NT. 2009. New insights on Giant Deer (*Megaloceros giganteus*) palaeobiology inferred from stable isotope and cementum analysis. (podium) 69th Annual Meeting of the Society of Vertebrate Paleontology, University of Bristol, Bristol UK, September 26th; Journal of Vertebrate Paleontology 29(3):78A.

Chritz KL and Bard RS. 2009. Development of a new green undergraduate laboratory procedure for syntheses of dibromo and bromoether derivatives of stilbene. (poster) Founder's Day Research Symposium, University of Portland, April 7th.

Chritz KL. 2007. Paleoecology of the Giant Irish Deer, *Megaloceros giganteus* (Blumenbach). (podium), Science Foundation Ireland's CoBiD-UREKA 3rd Annual Summer Research Symposium, University College Dublin, August 16th.

McGowan AJ, **Chritz KL**, Dyke GJ. 2009. The sex ratio in Irish Giant deer: bachelor parties or a series of unfortunate accidents? 7th Annual Meeting of the European Association of Vertebrate Palaeontologists.

ACADEMIC AND PROFESSIONAL SOCIETY MEMBERSHIPS

Kenya Prehistory Club, Geological Society of America, American Geophysical Union, Society of Vertebrate Paleontology, Society for American Archaeology, American Association of Physical Anthropology

PROFESSIONAL SERVICE

Peer Review: *Journal of Human Evolution, Rapid Communications in Mass Spectrometry, Historical Biology; Biology Letters; Biogeochemistry; Nature Ecology and Evolution, Palaeoecology, Palaeoclimatology, Palaeogeography; Quaternary Research; Paleobiology; Mammalian Biology; Quaternary Science Reviews; Nature Communications; Journal of Geophysical Research - Biogeosciences, National Geographic Society grants, Communications Biology, PNAS, Chemical Geology*

Departmental and University Service

- 2023:** Environmental Sciences Internal Advisory Group member
- 2022:** Canada Research Excellence Chair search committee
- 2021-present:** Public relations committee, University of British Columbia
- 2014:** Graduate admissions committee (Utah)
- 2012:** Biology “Boot Camp” departmental grant review panel (Utah)
- 2010:** Biology Department planning committee, “Science Day at the U” (Utah)

Outreach:

I am a National Geographic Explorer, and I am an active participant in public engagement through the Smithsonian’s and the National Geographic Society’s outreach programs, such as [“The Scientist is In”](#).

Previous outreach and public engagement:

- 2019:** Profs and Pints speaker
- 2017:** National Geographic Live! headline speaker
- 2016:** Girls Full STEAM Ahead! science summer camp speaker
- 2011:** Utah FIRST Lego League Robotics Championship, judge
- 2010:** Salt Lake Valley Science and Engineering Fair; Emerson Elementary School, judge
- 2009:** Intel Northwest Science Expo, Portland State University, judge
- 2007:** Valley Catholic Middle School, judge