

CURRICULUM VITAE  
JACKSON K. NJAU

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**APPOINTMENTS**

- 2017-pres. Associate Professor, Department of Earth & Atmospheric Sciences, Indiana University.
- 2011-17 Assistant Professor, Department of Earth and Atmospheric Sciences, Indiana University.
- 2019-pres President, East African Association for Paleoanthropology and Paleontology (EAAPP)
- 2011-pres. Research Associate, The Stone Age Institute & Center for Research into the Anthropological Foundations of Technology, Indiana.
- 2013-pres. Adjunct Faculty, Department of Anthropology, Indiana University.
- 2012-pres. Affiliate Faculty, African Studies Program, Indiana University, Bloomington.
- 2009-11 Postdoctoral Fellow, Human Evolution Research Center, Dept. Integrative Biology, University of California, Berkeley.
- 2006-10 Principal Curator, National Museum of Tanzania.
- 1992-05 Curator of Archaeology, National Museum of Tanzania.

**EDUCATION**

- 2006 PhD, Rutgers, The State University of New Jersey (Anthropology)
- 2000 MA, Rutgers, The State University of New Jersey (Anthropology)
- 2000 Quaternary Studies Cert., Geology & Anthropology, Rutgers University
- 1992 BA, University of Dar Es Salaam, Tanzania (Archaeology)

**AWARDS & FELLOWSHIPS**

- 2022 Trustees Teaching Award, Indiana University
- 2005 Dean's Award for Excellence in Research, Rutgers University
- 2005 Dissertation Fellowship, Center for Human Evolutionary Studies, Rutgers University
- 2004 J. Flannagan, Graduate Fellowship, Rutgers University
- 2003-04 Wenner-Gren Foundation, Graduate Fellowship
- 1998-00 Wenner-Gren Foundation, Graduate Scholarship
- 1996-98 Baldwin Fellowship, L.S.B. Leakey Foundation

**EXTERNAL GRANTS**

- 2022-26 *NASA*, 80NSSC21K1830. An East African Rift fluvio-lacustrine analog for Jezero crater, Mars. Role: Co-PI (collaborative with U Wisconsin-Milwaukee). \$71,962 to IU.

- 2024 *Wenner-Gren Foundation*, Fifty Years After LUCY: The Eastern African Association for Paleoanthropology & Paleontology (EAAPP) conference, Addis Ababa, Ethiopia. Role: PI (\$20,000).
- 2022 *Wenner-Gren Foundation*, Eastern African Association for Paleoanthropology & Paleontology (EAAPP), conference, Arusha, Tanzania. Role: PI (\$20,000).
- 2016-21 *National Science Foundation*, BCS 1623873. Collaborative Research: An Examination of Behavioral and Biological Change in an Extended Chronological Context. Role: PI (collaborative with U Wisconsin-Milwaukee). \$199,548 to IU.
- 2019 *The Leakey Foundation*, Constraining Hominin Record through High Resolution Paleomagnetic Stratigraphy at Olduvai Gorge, Tanzania. Role: Co-PI (\$18,000).
- 2019 *Wenner-Gren Foundation*, Eastern African Association for Paleoanthropology & Paleontology (EAAPP), workshop/conference, Nairobi, Kenya. Role: Co-PI (\$20,000).
- 2017 *Wenner-Gren Foundation*, The Eastern African Association for Paleoanthropology & Paleontology (EAAPP), workshop, Addis Ababa, Ethiopia. Role: PI (\$20,000).
- 2013-14 *The Leakey Foundation*, Olduvai Vertebrate Fossils Research and Curation. Role: PI (\$12,500).
- 2012-16 *European Research Council* (283366). The Origins of the Acheulean in Eastern Africa-ORACEAF. Role: Co-PI (€1.5 M).
- 2012 *Palaeontological Scientific Trust*, Olduvai Landscape Paleoanthropology of Olduvai Gorge, Tanzania. Role: PI (\$11,700).
- 2015 *Wenner-Gren Foundation*, Fifty Years after *Homo habilis* Conference, Dar Es Salaam, Tanzania. Role: PI (\$20,000).
- 2015 *Palaeontological Scientific Trust*, Fifty Years after *Homo habilis* Conference, Dar Es Salaam, Tanzania Role: PI (\$5,700).
- 2010-11 *Palaeontological Scientific Trust (PAST)*, Olduvai Landscape Paleoanthropology of Olduvai Gorge, Role: PI (199,000 ZAR).
- 2011-13 *National Science Foundation* BCS 1025263. Vertebrate Paleontology at Olduvai Gorge, Tanzania. (\$494,738), PI: L.J. Hlusko, Co-I: J.K. Njau.
- 2010-12 *British Academy, International Partnership, UK*. The Early Acheulian in Olduvai Gorge. Role: Co-PI (£29,650).
- 2011-14 *The Leverhulme Trust, UK*. Percussion Stone Technology: Implication for Primate Tool Use and Human Evolution. Role: Co-PI (£124,900).
- 2011 *Wenner-Gren Foundation*. The East African Association for Paleoanthropology and Paleontology Conference, Addis Ababa, Ethiopia. Role: Co-PI (\$15,000).
- 2008 *National Geographic Society*. Surveying for New Paleoanthropological Sites in Tanzania. Role: Co-PI (\$15,000)
- 2008 *Wenner-Gren Foundation*. Fifty Years after *Paranthropus boisei* (*Zinjanthropus*), The East African Association for Paleoanthropology and Paleontology, Conference, Arusha, Tanzania. Role: Co-PI (\$15,000).

- 2007 *Wenner-Gren Foundation (International Collaborative Research Grant)*.  
Surveying for New Paleoanthropological Sites in Tanzania through satellite  
imagery. Role: Co-PI (\$29,974).

### **PRE-DOCTORAL GRANTS**

- 2002 *NSF- Doctoral Dissertation Improvement Grant* (\$12,000).  
2001 *Wenner-Gren Foundation Research Grant* (\$19,500).  
2000 *The Explorers Club New York, Exploration Fund Grant* (\$1,200).

### **STUDENT RESEARCH GRANTS**

#### **Danielle Peltier-Thompson:**

- 2022 *The Leakey Foundation*, Graduate Student Research Grant. The drivers of faunal  
community dynamics and its implications on hominin occupation during Bed II  
times, Olduvai Gorge (\$12,000)  
2022 *Provost's Travel Award for Women in Science* (\$700) to attend the Eastern Africa  
Association of Paleoanthropology & Paleontology Conference, Tanzania.  
2020 *McCormick Science Grant*, IU COAS (\$2500).  
2019 *Provost's Travel Award for Women in Science* to attend the Eastern African  
Association for Paleoanthropology & Paleontology Conference, Kenya (\$800)  
2018 *Provost's Travel Award for Women in Science* (\$500).

#### **Thomas LaBarge:**

- 2024 *The Explorers Club* grant; The Isotopic Evolution of the Serengeti Ecosystem  
(\$5,000).  
2024 *Office of the Vice President for International Affairs (OVPIA)*, Summer Pre-  
Dissertation Research Grant for fieldwork at Olduvai Gorge and Serengeti (\$3500).  
2023 *John and Meta Dennis Fellowship for Foreign Language Support*, IU College of  
Arts and Science (COAS) (\$2500).  
2023 *International Association of Geochemistry* Student Research grant (\$2255).  
2023 *Charles A. & June R.P. Ross Research Grant*, GSA (\$2652).  
2023 GSA, Student Travel Grant (\$150).  
2023 *Peter and Susan Dahl Fund*, IU EAS (\$1500).  
2022 *The Paleontological Society Student Research Grant* (\$1200).  
2022 *John Barratt Patton Fellowship* (\$500).  
2022 *Galloway/Perry/Horowitz Fellowship* Grant in AID, IU EAS (\$985)

#### **Samuel Anderson**

- 2022 *SEPM, Society for Sedimentary Geology, Graduate Student Research Grant*  
(\$1250)

#### **Paul Farrugia**

- 2013 *Geological Society of America* (\$2,125)

#### **Robin Green**

- 2015 *Provost's Travel Award for Women in Science* (\$1,200).

2013 *The Paleontology Society* (\$800)  
2013 *Sigma Xi* (\$1,000)

**Sarah Swartz**

2014 NSF GRFP

2015 *Provost's Travel Award for Women in Science* (\$900).

**PEER-REVIEWD PUBLICATIONS ([GOOGLE SCHOLAR](#))**

Underlined author is a student advised or mentored by Njau

65. LaBarge, T.W. & **Njau, J.K.** Taxonomic Reappraisal of *Nihilichnus* from Taphonomic Perspectives of Crocodile Feeding Behavior. *Ichnos*. 31, 40-55. <https://doi.org/10.1080/10420940.2024.2353199>
64. Taylor, C.E., Masao, F., **Njau, J.K.**, Songita, A.V., Hlusko, L.J. (2024) OH 89: A newly described ~1.8-million-year-old hominid clavicle from Olduvai Gorge. *Peer Community Journal*, 4, <https://doi.org/10.24072/pcjournal.372>
63. Kodikara, G.R.L., McHenry, L.J., Hynek, B.M., **Njau, J.K.** (2024) Mapping paleolacustrine deposits with a UAV-borne multispectral camera: Implications for future drone mapping on Mars. *The Planetary Science Journal* 5, 265. <https://doi.org/10.3847/PSJ/ad8b29>
62. Kodikara, G.R.L., McHenry, L.J., Stanistreet, I.G., Stollhofen, H., **Njau, J.K.**, Toth, N., Schick, K. (2024) Wide & Deep Learning for predicting relative mineral compositions of sediment cores solely based on XRF scans, a case study from Pleistocene Paleolake Olduvai, Tanzania. *Artificial Intelligence in Geosciences* 5, <https://doi.org/10.1016/j.aiig.2024.100088>.
61. Smedley, R., Fenn, K., Stanistreet, I.G., Stollhofen, H., **Njau, J.K.**, Schick, K., Toth, N. (2024) Age-depth model for uppermost Ndutu Beds constrains Middle Stone Age technology and climate-induced paleoenvironmental changes at Olduvai Gorge (Tanzania). *Journal of Human Evolution* 186, <https://doi.org/10.1016/j.jhevol.2023.103465>
60. Drumheller, S., D'Amore, D., **Njau, J.K.** (2023) Taphonomic Approaches to Bite Mark Analyses in the Fossil Record and Applications to Crocodyliform and Broader Archosaurian Paleobiology. In: *Ruling Reptiles: Crocodylian Biology and Archosaur Paleobiology*. (Eds. Holly N. Woodward & James O. Farlow), Indiana University Press. Bloomington, IN. Pg. 161-185.
59. McHenry, L.J., Stanistreet, I.G., **Njau, J.K.**, Mwankunda, J. (2023) The Geoheritage of Olduvai Gorge, Tanzania: providing geological answers to human origins questions. *Geological Society, London*. 543, <https://doi.org/10.1144/sp543-2022-269>
58. Farrugia, P. & **Njau, J.K.** (2022) Paleocology and Vertebrate Taphonomy of the DK Site, Olduvai Gorge, Tanzania, In S. Reynolds & R. Bobe (eds.). *African Paleocology and Human Evolution*. Cambridge University Press. Pg. 394-412, <https://doi.org/10.1017/9781139696470.032>
57. Brassell, S.C., Colcord, D.E., Shilling, A.M., Stanistreet, I.G., Stollhofen, H., Toth, N., Schick, K.D., **Njau, J.K.**, Freeman, K.H. (2022) Alkenones in Pleistocene

- Upper Bed I (1.803-1.900 Ma) sediments from Paleolake Olduvai, Tanzania. *Organic Geochemistry* 170, <https://doi.org/10.1016/j.orggeochem.2022.104437>
56. Fujioka, F., Benito-Calvo, A., Mora, R., McHenry, L.J., **Njau, J.K.**, Torre, I.d.L (2022) Direct cosmogenic nuclide isochron burial dating of early Acheulian stone tools at the T69 Complex (FLK West, Olduvai Bed II, Tanzania). *Journal of Human Evolution*. 165, <https://doi.org/10.1016/j.jhevol.2022.103155>
  55. **Njau, J.K.**, Toth, P., Schick, K., Stanistreet, I., McHenry, L.J., Stollhofen, H. (2021) The Olduvai Gorge Coring Project: Drilling high resolution palaeoclimatic and palaeoenvironmental archives to constrain hominin evolution. *Palaeogeog. Palaeoclim. Palaeoecol.* 561, <https://doi.org/10.1016/j.palaeo.2020.110059>
  54. Deino, A.L., Heil, C., King, J., McHenry, L.J., Stanistreet, I.G., Stollhofen, H., **Njau, J.K.**, Mwankunda, J., Schick, K.D., Toth, N. (2021) Chronostratigraphy and Age Modeling of Pleistocene Drill Cores from the Olduvai Basin, Tanzania (Olduvai Gorge Coring Project). *Palaeogeog. Palaeoclim. Palaeoecol.* 571, <https://doi.org/10.1016/j.palaeo.2020.109990>
  53. Ferland, T.M., Colcord, D.E., Shilling, A.M., Brassell, S.C., Stanistreet, I.G., Stollhofen, H., **Njau, J.K.**, Schick, K.D., Toth, N., Freeman, K.H. (2021) Biased preservation of Pleistocene climate variability proxies at Olduvai Gorge, Tanzania. *Palaeogeog. Palaeoclim. Palaeoecol.* 562, <https://doi.org/10.1016/j.palaeo.2020.109940>
  52. Stollhofen, H., Stanistreet, I.G., Toth, N., Schick, K.D., Rodríguez-Cintas, A., Albert, R.M., *Farrugia, P.*, **Njau, J.K.**, Pante, M.C., Herrmann, E., Ruck, L., Bamford, M.K., Blumenschine, R.J., Masao, F.T. (2021). Olduvai's Oldest Oldowan. *Journal of Human Evolution*. 150, <https://doi.org/10.1016/j.jhevol.2020.102910>
  51. Torre, I.d.l., Benito-Calvo, A., Martín-Ramos, C., McHenry, L.J., Mora, R., **Njau, J.K.**, Pante, M., Stanistreet, I.G., Stollhofen, H. (2021) New excavations in the MNK Skull site, and the last appearance of the Oldowan and *Homo habilis* at Olduvai Gorge, Tanzania. *Journal of Anthropological Archaeology*, 61. <https://doi.org/10.1016/j.jaa.2020.101255>
  50. Azzarà, B., Boschian, G., Brochu, C.A., Delfino, M., Iurino, D.A., Kimambo, J.S., Manzi, G., Masao, F.T., Menconero, S., **Njau, J.K.**, Cherin, M. (2021) A new cranium of *Crocodylus Anthropophagus* from Olduvai Gorge, Tanzania. *Rivista Italiana di Paleontologia e Stratigrafia*. 127, 275-295, <https://doi.org/10.13130/2039-4942/15771>
  49. **Njau, J.K.**, Herrmann, E.W., Ruck, L., Pante, M., *Farrugia, P.*, Toth, N., Schick, K., Stollhofen, H., Stanistreet, I.G. (2020) Core stratigraphy constrains Bed IV archaeological record at HEB site, Olduvai Gorge, Tanzania. *Palaeogeography, Palaeoclimatology, Palaeoecology* 552, <https://doi.org/10.1016/j.palaeo.2020.109773>
  48. Parisi, L., Stanistreet, I.G., **Njau, J.K.**, Schick, K., Toth, N., Martin Mai, P. (2020) Seismological investigations in the Olduvai basin and Ngorongoro Volcanic Highlands (western flank of the North Tanzanian Divergence). *Seismological Research Letters* 91 (6): 3286–3303, <https://doi.org/10.1785/0220200111>
  47. McHenry, L.J., Stanistreet, I.G., Stollhofen, H., **Njau, J.K.**, Toth, N., Schick, K. (2020) Tuff fingerprinting and correlations between OGCP cores and outcrops for

- Pre-Bed I and Bed I/II at Olduvai Gorge, Tanzania. *Palaeogeog. Palaeoclim. Palaeoecol.* 548, <https://doi.org/10.1016/j.palaeo.2020.109630>
46. McHenry, L. J., Kodikara, G.R.L., Stanistreet, I.G., **Njau, J.K.**, Schick, K., Toth, N. (2020) Lake conditions and detrital sources of Paleolake Olduvai, Tanzania, reconstructed using X-ray Diffraction analysis of cores. *Palaeogeog. Palaeoclim. Palaeoecol.* 556, <https://doi.org/10.1016/j.palaeo.2020.109855>
  45. Pante, M., Torre, I.d.I., d'Errico, F., **Njau, J.K.**, Blumenschine, R.J. (2020) Bone tools from Beds II-IV, Olduvai Gorge, Tanzania, and implications for the origins and evolution of bone technology. *Journal of Human Evolution* 148, <https://doi.org/10.1016/j.jhevol.2020.102885>
  44. Rodriguez-Cintas, A., Albert, R.M., Bamford, M.K., Stanistreet, I.G., Stollhofen, H., Stone, J.R., Rivera-Rondon, C., Pronzaro, R., **Njau, J.K.**, Schick, K., Toth, N. (2020) Palaeovegetation changes recorded in Palaeolake Olduvai OGCP Core 2A (2.09–2.12 Ma) Naibor Soit Formation Olduvai Gorge, Tanzania. *Palaeogeog. Palaeoclim. Palaeoecol.* 557, <https://doi.org/10.1016/j.palaeo.2020.109928>
  43. Shilling, A.S., Colcord, D.E., Karty, J., Hansen, A., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N., Brassell, S.C. (2020) Biogeochemical evidence from OGCP Core 2A sediments for environmental changes preceding deposition of Tuff IB and climate transitions in Upper Bed I of the Olduvai Basin. *Palaeogeog. Palaeoclim. Palaeoecol.* 555, <https://doi.org/10.1016/j.palaeo.2020.109824>
  42. Stanistreet, I.G., Stollhofen, H., Deino, A., McHenry, L., Toth, N., Schick, K., **Njau, J.K.** New Olduvai Basin stratigraphy and stratigraphic concepts revealed by OGCP cores into the Palaeolake Olduvai depocentre, Tanzania. *Palaeogeog. Palaeoclim. Palaeoecol.* 554, <https://doi.org/10.1016/j.palaeo.2020.109751>
  41. Stanistreet, I.G., Boyle, J.F., Stollhofen, H., Deocampo, D., Deino, A., McHenry, L.J., Toth, N., Schick, K., **Njau, J.K.** (2020) Palaeosalinity and palaeoclimatic geochemical proxies (elements Ti, Mg, Al) vary with Milankovitch cyclicality (1.3 to 2.0 Ma), OGCP cores, Palaeolake Olduvai, Tanzania. *Palaeogeog. Palaeoclim. Palaeoecol.* 546, <https://doi.org/10.1016/j.palaeo.2020.109656>
  40. Stanistreet, I.G., Doyle, C., Hughes, T., Rushworth, E.R., Stollhofen, H., Toth, N., Schick, K., **Njau, J.K.** (2020) Changing depocentre environments of Palaeolake Olduvai and carbonates as marker horizons for hiatuses and lake-level extremes. *Palaeogeog. Palaeoclim. Palaeoecol.* 560, <https://doi.org/10.1016/j.palaeo.2020.110032>
  39. Shilling, A.M., Colcord, D. E., Karty, J., Hansen, A., Freeman, K. H., **Njau, J. K.**, Stanistreet, I. G., Stollhofen, H., Schick, K. D., Toth, N., Brassell, S.C. (2019) Biogeochemical evidence for environmental changes of Pleistocene Lake Olduvai during the transitional sequence of OGCP Core 2A that encompasses Tuff 1B (~1.848 Ma). *Palaeogeog. Palaeoclim. Palaeoecol.* 532, <https://doi.org/10.1016/j.palaeo.2019.109267>
  38. Colcord, D.E., Shilling, A., Freeman, K. H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K., Toth, N., Brassell, S. (2019) Aquatic biomarkers record Pleistocene environmental changes at Paleolake Olduvai, Tanzania. *Palaeogeog. Palaeoclim. Palaeoecol.* 524, 250-261, <https://doi.org/10.1016/j.palaeo.2019.04.001>

37. Lu, K., Hanafy, S., Stanistreet, I.G., **Njau, J.K.**, Schick, K., Toth, N., Stollhofen, H., Schuster, G. (2019). *Palaeogeog. Palaeoclim. Palaeoecol.* 533, <https://doi.org/10.1016/j.palaeo.2019.109246>
36. Merritt, S.R., Pante, M.C., Keevil, T.L., **Njau, J.K.**, Blumenschine, R.J. (2019) Don't cry over spilled ink: missing context prevents replication and creates the Rorschach effect in bone surface modification studies. *Journal of Archaeological Science* 102, 71-79, <https://doi.org/10.1016/j.jas.2018.07.003>
35. Alemseged, Z., **Njau, J.K.**, Pobiner, B., Ndiema, E. (2019) Connecting palaeoscientists in eastern Africa and the wider world. *Nature Ecology & Evolution* 3, 330-331, [DOI](https://doi.org/10.1038/s41562-019-0688-8)
34. *Ascari, S.*, **Njau, J.K.**, Polly, P.D., Sauer, P., Peng, Y. (2018) Fossil herbivores and crocodiles as paleoclimatic indicators of environmental shifts from Bed I and Bed II times of the Olduvai Gorge, Tanzania. *Palaeogeog. Palaeoclim. Palaeoecol.* 511, 550-557, <https://doi.org/10.1016/j.palaeo.2018.09.021>
33. Torre, I.d.L., McHenry, L.J., **Njau, J.K.** (2018) From the Oldowan to the Acheulean at Olduvai Gorge, Tanzania. *Journal Human Evolution (Special Issue)* 120, 1-421, <https://doi.org/10.1016/j.jhevol.2018.03.012>
32. Stanistreet, I.G., Stollhofen, H., **Njau, J.K.**, *Farrugia, P.*, Masao, F.T., Albert, R.M., Bamford, M.K. & Pante, M. (2018) Lahar inundated, modified, and preserved 1.88 Ma early hominin (OH24 and OH56) Olduvai DK site. *Journal of Human Evolution* 116, 27-42, <https://doi.org/10.1016/j.jhevol.2017.11.011>
31. Pante, M.C., **Njau, J.K.**, Hensley-Marschand, B., Keevil, T.L., Martín-Ramos, C., Peters, R.F., Torre, I.d.L (2018) The carnivorous feeding behavior of early Homo at HWK EE, Bed II, Olduvai Gorge, Tanzania. *Journal of Human Evolution* 120, 215-235, <https://doi.org/10.1016/j.jhevol.2017.06.005>
30. Colcord, D.E., Shilling, A.M., Sauer, P., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N., Brassell, S.C. (2018) Sub-Milankovitch palaeoclimatic and paleoenvironmental variability in East Africa recorded by Pleistocene lacustrine sediments from Olduvai Gorge, Tanzania. *Palaeogeography, Palaeoclimatology, Palaeoecology* 495, 284-291, <https://doi.org/10.1016/j.palaeo.2018.01.023>
29. Prassack, K., Pante, M.C., **Njau, J.K.** & de la Torre, I. (2018) The Paleocology of Fossil Birds from Middle Bed II, at Olduvai Gorge, Tanzania. *Journal of Human Evolution* 120, 32-47, <https://doi.org/10.1016/j.jhevol.2017.11.003>
28. Torre, I.d.L., Albert, R.M., Arroyo, A., Macphail, R., McHenry, L.J., Mora, R., **Njau, J.K.**, Pante, M.C., Rivera-Rondon, C.A., Rodríguez-Cintas, A., Stanistreet, I.G., Stollhofen, H., Wehr, K. (2018) New excavations at the HWK EE site: archaeology, paleoenvironment and site formation processes during late Oldowan times at Olduvai Gorge, Tanzania. *Journal of Human Evolution* 120, 140-202, <https://doi.org/10.1016/j.jhevol.2017.07.018>
27. Rivals, F., Uno, K., Bibi, F., Pante, M., **Njau, J.K.**, de la Torre, I. (2018) Dietary traits of the ungulates from the HWK EE site at Olduvai Gorge, Tanzania: Diachronic changes and seasonality. *Journal of Human Evolution* 120, 203-214, <https://doi.org/10.1016/j.jhevol.2017.08.011>
26. Bibi, F., Pante, M., Souron, A., Stewart, K., Varela, S., Werdelin, L., Boisserie, J.R., Fortelius, M., Hlusko, L., **Njau, J.K.**, de la Torre, I. (2018) Paleocology of

- the Serengeti during the Oldowan-Acheulean transition at Olduvai Gorge, Tanzania: The mammal and fish evidence. *Journal of Human Evolution* 120, 48-75, <https://doi.org/10.1016/j.jhevol.2017.10.009>
25. Uno, K., Rivals, F., Bibi, F., Pante, M., **Njau, J.K.**, de la Torre, I. (2018) Large mammal diets and paleoecology across the Oldowan-Acheulean transition at Olduvai Gorge, Tanzania from stable isotope and tooth wear analyses. *Journal of Human Evolution* 120, 76-91, <https://doi.org/10.1016/j.jhevol.2018.01.002>
  24. Albert, R.M., Bamford, M.K., Stanistreet, I.G., Stollhofen, H., Rivera-Rondon, C.A., **Njau, J.K.**, Blumenschine, R.J. (2018) River-fed wetland palaeovegetation and palaeoecology at the HWK W site, Bed I, Olduvai Gorge. *Review of Palaeobotany and Palynology* 259, 223-241, <https://doi.org/10.1016/j.revpalbo.2018.09.010>
  23. Pante, M.C., Muttart, M.V., Keevil, T.L., Blumenschine, R.J., **Njau, J.K.**, Merritt, S. (2017) A new high-resolution 3-D quantitative method for identifying bone surface modifications with implications for Early Stone Age archaeological record. *Journal of Human Evolution* 102, 1-11, <https://doi.org/10.1016/j.jhevol.2016.10.002>
  22. **Njau, J.K.** & Gilbert, W.H. (2016) Standardizing terms for crocodile-induced bite marks on bone surfaces in light of the frequent bone modification equifinality found to result from crocodile feeding behavior, stone tool modification, and trampling. *FOROST (Forensic Osteology)* 3, 1-13. [DOI](https://doi.org/10.1016/j.jhevol.2016.10.002)
  21. Johnson, C.C., **Njau, J.K.**, Van Damme, D., Schick, K., Toth, N. (2016) Paleoecologic significance of freshwater bivalves, Bed III, Olduvai Gorge, Tanzania. *Palaios* 31, 319-326, <https://doi.org/10.2110/palo.2016.001>
  20. McHenry, L.J., **Njau, J.K.**, de la Torre, I., Pante, M.C. (2016) Geochemical “fingerprints” for Olduvai Gorge Bed II tuffs and implications for the Oldowan–Acheulean transition. *Quaternary Research* 85, 147-158, <https://doi.org/10.1016/j.yqres.2015.10.005>
  19. Jorayev, G., Wehr, K., Benito-Calvo, A., **Njau, J.K.**, Torre, I. (2016) Imaging and photogrammetry models of Olduvai Gorge (Tanzania) by unmanned aerial vehicles: a high-resolution digital database for research and conservation of Early Stone Age sites. *Journal of Archaeological Science* 75, 40-56, <https://doi.org/10.1016/j.jas.2016.08.002>
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  16. Hlusko, L.J., Reiner, W.R., **Njau, J.K.** (2015). A one-million-year-old hominid distal ulna from Olduvai Gorge, Tanzania. *American Journal of Physical Anthropology* 158, 36-42, <https://doi.org/10.1002/ajpa.22765>
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- Préhistoriques, Anthropologiques et Historiques. Nouvelle série 18, Pp.147-187.  
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14. **Njau, J.K.** (2012) Reading Pliocene Bones. *Science* 336, 46-47,  
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  13. **Njau, J.K.** & Blumenschine, R.J. (2012) Crocodylian and Mammalian Carnivore Feeding Traces on Hominin Fossils from FLK 22 and FLK NN 3, Late Pliocene, Olduvai Gorge, Tanzania. *Journal of Human Evolution* 63, 408-417,  
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  12. Blumenschine, R.J., Stanistreet, I.G., **Njau, J.K.**, Bamford, M.K., Masao, F.T., Albert, R.M., Stollhofen, H., Andrews, P., Prassak, K.A., McHenry, L.J., Fernandez-Jalvo, Y., Camilli, E.L., Ebert, J. (2012) Environments and Hominin Activities across FLK Peninsula During *Zinjanthropus* Times (1.84 Ma), Olduvai Gorge, Tanzania. *Journal of Human Evolution* 63, 364-383,  
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  11. Ungar, P.S., Krueger, K.L., Blumenschine, R.J., **Njau, J.K.**, Scott, R.S. (2012) Dental microwear texture analysis of hominins recovered by the Olduvai Landscape Paleoanthropology Project, 1995-2007. *J. Human Evolution* 63, 429-437,  
<https://doi.org/10.1016/j.jhevol.2011.04.006>
  10. Renne, P. R., Mulcahy, S.R., Cassata, W.S., Morgan, L.E., Kelley, S.P., Hlusko, L.J., **Njau, J.K.** (2010) Retention of inherited Ar by alkali feldspar xenocrysts in a magma: Kinetic constraints from Ba zoning profiles. *Geochimica et Cosmochimica Acta* 93, 129–142, <https://doi.org/10.1016/j.gca.2012.06.029>
  9. Blumenschine, R.J., Masao, F.T., Stollhofen, H., Stanistreet, I.G., Bamford, M.K., Albert, R.M., **Njau, J.K.**, Prassack, K.A. (2012) Landscape distribution of Oldowan stone artifact assemblages across the fault compartments of the eastern Olduvai Lake Basin during early lowermost Bed II times. *Journal of Human Evolution* 63, 384-394, <https://doi.org/10.1016/j.jhevol.2011.05.003>
  8. Westaway, M., Thompson, J., Wood, W., **Njau, J.K.** (2011) Crocodile ecology and the taphonomy of early Australasian sites. *Environmental Archaeology* 16, 124-136,  
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  7. **Njau, J.K.** & Hlusko, L.J. (2010) Fine-Tuning Paleoanthropological Reconnaissance using High-Resolution Satellite Imagery: The Discovery of 28 New Sites in Tanzania. *Journal of Human Evolution* 59, 680-684,  
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  6. Brochu, C.A., **Njau, J.K.**, Blumenschine, R.J., Densmore, L.D. (2010) A New Horned Crocodile From Plio-Pleistocene Hominid Sites at Olduvai Gorge, Tanzania. *PLoS One* 5(2), e9333, <https://doi.org/10.1371/journal.pone.0009333>
  5. Louchart, A., Wesselman, H., Blumenschine, R.J., Hlusko, L.J., **Njau, J.K.**, Black, M.T., Asnake, M., White, T.D. (2009) Taphonomic, Avian, and Small Vertebrate Indicators of *Ardipithecus ramidus* Habitat. *Science* 326, 66-70, [DOI: 10.1126/science.1175823](https://doi.org/10.1126/science.1175823)
  4. **Njau, J.K.**, Alemseged, Z., Mbua, E., Pobiner, B. (2009) Fifty Years After Discovery of *Zinjanthropus* Conference. *Evolutionary Anthropology* 18, 235-236,  
<https://doi.org/10.1002/evan.20241>
  3. Blumenschine, R.J., Peters, C.R., Capaldo, S.D., Andrews, P., **Njau, J.K.**, Pobiner, B.L. (2007) Vertebrate taphonomic perspectives on Oldowan hominin land use in

- the Plio-Pleistocene Olduvai Basin, Tanzania. In: *Breathing Life into Fossils: Taphonomic Studies in Honor of C.K. Brain* (T. Pickering, K. Schick, N. Toth eds.). Gosport, IN: Stone Age Institute Press. Pp. 161-179.
2. **Njau, J.K.** & Blumenshine, R.J. (2006) A Diagnosis of Crocodile Damage to Large Vertebrate Bones, With Fossil Examples From Olduvai Gorge, Tanzania. *Journal of Human Evolution* 50, 142-162.  
<https://doi.org/10.1016/j.jhevol.2005.08.008>.
  1. Blumenshine, R.J., Peters, C.R., Masao, F.T., Clarke, R.J., Deino, A.L., Hay, R.L., Swisher, C., Ashley, G.M., McHenry, L.J., Sikes, N.E., van der Merwe, N.J., Tactikos, J.C., Cushing, A.E., Deocampo, D.M., **Njau, J.K.**, Ebert, J.I. (2003) Late Pliocene Homo and Hominid Land Use from Western Olduvai Gorge, Tanzania. *Science* 299, 1217-1221, <https://doi.org/10.1126/science.1075374>

### OTHER PUBLICATIONS

- 2014 **Njau, J.K.** Geoarchaeology summer field school at Olduvai Gorge, Tanzania. *Newsletter of the Archaeological Geology Division of the Geological Society of America* (GSA).
- 2013 **Njau, J.K.** (2013) Olduvai Gorge Archaeological Site. C. Smith (ed.), *Encyclopedia of Global Archaeology*. [DOI](#)
- 2012 Torre, I.d.L., McHenry, L.J., **Njau, J.K.**, Pante, M. The Origins of the Acheulean at Olduvai Gorge. *Archaeology International* 15, 89-98.

### RECENT RESEARCH PROJECTS LEADERSHIP

- Currently, I am co-directing the Olduvai Gorge Coring Project ([OGCP](#)). This project seeks to understand the role of Earth's dynamics to hominin evolution through scientific drilling and multiproxy analyses of core record.
- Olduvai Geochronology and Archaeology Project ([OGAP](#))
- Olduvai Vertebrate Paleontology Project ([OVPP](#))
- Olduvai Gorge Landscape Paleoanthropology Project ([OLAPP](#)).
- Tanzania International Paleoanthropological Research Project (TIPRP 2006-2009). Systematic survey of the Tanzanian sector of Eastern Africa Rift System for paleontological and archaeological resources.

### SELECTED PRESENTATIONS/ INVITED TALKS/ SESSIONS/ PANELS

- 2025 World Archaeological Congress (WAC-10), Darwin, Australia. Session conveners, **Njau, J.K.**, Westaway, M., Bol, B. (June)
- 2025 Jay Hall Lecture, University of Queensland, Brisbane, Australia. The Taung (*Australopithecus africanus*) Centenary Symposium. Guest Speaker (July)
- 2023 Spanish National Research Council (CSIC), Madrid, Spain. Challenges to scientific cooperation based on equality and reciprocity between the European Union, Latin America, the Caribbean, and Africa. A high-level workshop organized by Science Europe and CSIC. Panelist. (December)
- 2023 Dept. de Arqueología y Procesos Sociales, Instituto de Historia, CSIC, Madrid, Spain. Biogeographic and cultural adaptations of early humans during the first

- intercontinental dispersals workshop. Funded by European Research Council (ERC) (April).
- 2022 State University of Tbilisi, Republic of Georgia. Human Origins Research at Olduvai Gorge: Advances in Modern Paleoanthropology (Workshop organized by the Stone Age Institute and National Museum of Georgia (September).
- 2019 Geology Department, University of Dar Es Salaam, Tanzania. Olduvai Gorge: New Investigations on Paleoclimatic and Paleoenvironmental Contexts of Human Evolution through Scientific Drilling (March).
- 2019 US Embassy, Dar Es Salaam, Tanzania. Olduvai Gorge the cradle of humankind: revealing two million years of history (March).
- 2018 Geological Society of America (GSA) Symposium on Human Evolution and Environmental History in Africa: 25 Years of Transformative Research Symposium. Indianapolis, IN.
- 2018 Stone Age Institute, Indiana. Olduvai Gorge in 21st Century: Research Advances and Infrastructure Development. What Drives Human Cognitive Evolution? Symposium,
- 2017 The Greater Serengeti Ecosystem Symposium. Evolution of the Greater Serengeti: Geological, Paleontological and Paleoanthropological perspectives. Seronera, Serengeti funded by the Greater Serengeti Conservation Society.
- 2016 Georgian National Museum, Tbilisi, Georgia. Intercontinental contemporary Homo erectus Workshop: Africa, Europe and China, represented by Olduvai Gorge, Dmanisi and Nihewan sites, respectively.
- 2015 Colorado State University, Fort Collins, CO. New paleoclimate & paleoenvironmental records of hominin evolution at Olduvai Gorge, Tanzania.
- 2015 University of Dar Es Salaam, Tanzania. New approach for investigating paleoenvironmental contexts of hominin evolution.
- 2014 Indiana State University, Terra Haute. The role of crocodylians in human evolution.
- 2013 University College London, UK. Bone modification in African Pliocene hominid localities.
- 2013 Indiana University, Bloomington. The ORIGIN Symposium. Evolution of Hominin Landscapes at Olduvai Basin: The last 2 million years of human history.
- 2011 University of Cambridge, UK. Taphonomy and Paleoecology of Plio-Pleistocene Hominids at Olduvai Gorge.
- 2011 Institute of Archaeology, University College London, UK. Crocodile Bite Marks and Predation Ecology of Hominids at Olduvai Gorge.
- 2009 University of California Museum of Paleontology. A Landscape Approach for Understanding Hominid Behaviors and Environments at Olduvai.
- 2009 American Museum of Natural History, New York. Darwin's Legacy: Consortium in Evolutionary Primatology Conference (NYCEP). Was FLK Plio-Pleistocene Site a "Hominid Home Base"?.
- 2007 Naracoorte Caves National Park, South, Australia. The Human Story: Four million years of evolution in northern Tanzania.

## **CONFERENCE ABSTRACTS**

Underlined author is a student advised or mentored by Njau

- 2025 **Njau, J.K.**, Westaway, M., Bol, B. The Centenary of Taung: Celebrating and reassessing Dart's discovery and decolonizing paleoanthropology. World Archaeological Congress (WAC-10), Darwin, Australia (22-28 June).
- 2025 McHenry, L.J., Kodikara, G.R.L., **Njau, J.K.**, Stanistreet, I., Stollhofen, H., Schick, K., Toth, N. Applying a Wide and Deep Learning Model to Core-Scan Xrf Element Data to Predict Paleolake Mineral Assemblages, Case Study Olduvai Gorge, Tanzania. *Lunar and Planetary Science Conference*. TX.
- 2024 **Njau, J.K.**, Schick, K., Toth, N., Stollhofen, H., Stanistreet, I. New deep coring at Paleolake Olduvai depocenter. Eastern African Association for Palaeoanthropology and Palaeontology (EAAPP), Addis Ababa, Ethiopia.
- 2024 LaBarge, T.W. & **Njau, J.K.** The neoichnology of *Nihilichnus* in the Serengeti. Society of Vertebrate Paleontology (SVP), Minneapolis, MN.
- 2024 LaBarge, T.W. & **Njau, J.K.** The Isotopic Ecology of a Serengeti Insectivore and Applications to Hominin Paleoecology. American Association of Biological Anthropology (AABA), Los Angeles, CA.
- 2024 McHenry, L.J., Stanistreet, I.G., Stollhofen, H., **Njau, J.K.**, Toth, N., Schick, K. A persistent Late Pleistocene saline-alkaline lake at Olduvai, Tanzania, as reconstructed by the sedimentology and mineralogy of cores. GSA, Anaheim, CA.
- 2024 Kodikara, G.R.L., McHenry, L.J., Hynek, B.M., **Njau, J.K.** Mapping Paleolacustrine Deposits with a UAV-Borne Multispectral Camera: Implications for Future Drone Mapping on Mars. *Lunar and Planetary Science conference*.
- 2024 Kodikara, G.R.L., McHenry, L.J., Hynek, B.M., **Njau, J.K.** Spectra mapping of mineral patterns at Lake Natron, Tanzania using Hyperspectral Remote Sensing and Machine Learning methods: Implications for Mars. Geological Society of America (GSA), Anaheim, CA.
- 2023 Peltier, D.M., **Njau, J.K.** Faunal distribution changes in Bed II times, Olduvai Gorge, Tanzania. Society of Vertebrate Paleontology (SVP).
- 2023 Truss, K., McHenry, L., Stanistreet, I., Stollhofen, H., **Njau, J.K.**, Schick, K., Toth, N. Authigenic minerals in altered volcanic units from East African paleolake cores: a proxy for paleoenvironment. Geological Society of America (GSA), Pittsburgh, PA.
- 2022 **Njau, J.K.**, Toth, N., Schick, Stanistreet, I., Stollhofen, H. New stratigraphy extends Quaternary record at the Olduvai basin, Tanzania. Eastern African Association of Palaeoanthropology and Palaeontology (EAAPP), Arusha, Tanzania.
- 2022 Peltier, D.M. & **Njau, J.K.** Tectonic influence on Pleistocene vertebrate diversity at Olduvai Gorge, Tanzania. Eastern African Association of Palaeoanthropology and Palaeontology (EAAPP), Arusha, Tanzania.
- 2022 Peltier, D.M. & **Njau, J.K.** Biostratigraphic framework of Olduvai Gorge, Bed II, Tanzania. Geological Society of America (GSA), Denver, CO.
- 2022 LaBarge, T.W. & **Njau, J.K.** Taphonomy and Ichnology of Nile Crocodile Feeding Behavior. Society of Vertebrate Paleontology (SVP), Toronto, Canada
- 2022 LaBarge, T.W. & **Njau, J.K.** Identifying Diagnostic Crocodile Feeding Traces in Archaeological Sites. Eastern African Association of Palaeoanthropology and Palaeontology (EAAPP), Arusha, Tanzania

- 2022 *LaBarge, T.W. & Njau, J.K.* Taxonomic Reappraisal of the Ichnogenus *Nihilichnus*. Geological Society of America (GSA), Denver, CO.
- 2022 *LaBarge, T.W. & Njau, J.K.* Technical Considerations for Observing, Documenting and Interpreting Feeding Traces in the Fossil Record. Paleoanthropology Society, Denver, CO.
- 2022 *Peltier, D.M. & Njau, J.K.* Tectonics and vertebrate diversity patterns at Olduvai gorge, Tanzania. Paleoanthropology Society, Denver, CO.
- 2022 *Anderson, S. & Njau, J.K.* Mapping and visualizing stratigraphy in 3D space with UAV and SfM photogrammetry at Olduvai Gorge, Tanzania. Geological Society of America (GSA), Denver, CO.
- 2022 Pante, M., **Njau, J.K.**, Schick, K., Toth, N., Herrmann, E., Stanistreet, I., Stollhofen, H. Preliminary results of renewed excavations at the HEB site, Olduvai Gorge, Tanzania. Eastern African Association of Palaeoanthropology and Palaeontology (EAAPP), Arusha, Tanzania.
- 2022 Pante, M., de la Torre, I., d'Errico, F., **Njau, J.K.**, Blumenschine, R.J. Bone tools from Beds II-IV, Olduvai Gorge, Tanzania, and implications for the origins and evolution of bone technology. Paleoanthropology Society, Denver, CO.
- 2021 *LaBarge, T.W.* and **Njau, J.K.** Technical considerations for observing, documenting and interpreting bite marks in fossil record. Geological Society of America (GSA), Portland, OR.
- 2021 *Peltier-Thompson, D.M.* and **Njau, J.K.** Paleoecological response to environmental variability in Olduvai Gorge, Tanzania. Geological Society of America (GSA), Portland, OR.
- 2021 McHenry, L.J., Deino, A., **Njau, J.K.**, et al. Cores record Pleistocene Ngorongoro volcanic history at Olduvai Gorge, Tanzania. Geological Society of America (GSA), Portland, OR.
- 2020 McHenry, L.J., Stollhofen, H., Kodikara, G.L., **Njau, J.K.**, Schick, K., Toth, N., Stanistreet, I.G., Deino, A. A core-based environmental and depositional history for Pleistocene Paleolake Olduvai, Tanzania, based on mineral assemblage. GSA, virtual.
- 2019 **Njau, J.K.**, Schick, K., Toth, N., Schick, K., Stanistreet, I., McHenry, L.J., Stollhofen, H., Lu, K., Hanafy, S., Schuster, G. Deep coring and seismic experiments extend chronological and environmental contexts of hominin evolution at Olduvai Basin. East African Association of Paleoanthropologists and Paleontologists (EAAPP), Nairobi, Kenya.
- 2018 **Njau, J.K.**, Schick, K., Toth, N., Stanistreet, I., McHenry, L.J., Stollhofen, H., Lu, K., Hanafy, S., Schuster, G., Deino, A., Colcord, D., Shilling, A., Johnson, C., Herrmann, E., Pante, M., Ruck, L., Farrugia, P., Mai, P.M., Parisi, L. Deep coring and seismic experiments extend chronological and environmental contexts of hominin evolution at Olduvai Basin. Geological Society of America (GSA), Indianapolis, IN.
- 2018 **Njau, J.K.**, Toth, N., Schick, K., Herrmann, E.W., Ruck, L., Pante, M., Stanistreet, I., Stollhofen, H., McHenry, L.J., Brassell, S. Correlating palaeoenvironmental to archaeological records through continental coring and their implications to hominin behaviors at Olduvai Gorge, Tanzania. Pan African Congress for Archaeology, Rabat, Morocco.

- 2018 **Njau, J.K.** Olduvai Gorge in 21<sup>st</sup> Century: Research Advances and Infrastructure Development. *What Drives Human Cognitive Evolution?* John Templeton Foundation Workshop, Bloomington, Indiana.
- 2018 McHenry, L.J., Kodira, G.L., **Njau, J.K.**, Stanistreet, I.G., Schick, K., Toth, N. Bulk mineralogy from cores as a proxy for paleogeography and paleolake conditions: an XRD record of the Olduvai paleolake. Geological Society of America (GSA), Indianapolis, IN.
- 2018 Kearney, J., Johnson, C., **Njau, J.K.**, Toth, N., Schick, K. Depositional environmental interpretations of Bed III and Bed IV, Olduvai Gorge, Tanzania: Expanding upon the work of Richard Hay, 1976. Geological Society of America (GSA), Indianapolis, IN.
- 2018 Colcord, D.E., Shilling, A.M., Freeman, K.H., Sauer, P.E., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N., Brassell, S.C. Response of the terrestrial and aquatic environments at Paleolake Olduvai to Pleistocene precipitation changes. GSA, Indianapolis, IN.
- 2018 Shilling, A.M., Colcord, D.E., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N. Brassell, S.C. Biogeochemical evidence of change in depositional setting in Paleolake Olduvai at ~1.85 Ma associated with complex interactions of climate, tectonics, and volcanism. Geological Society of America (GSA), Indianapolis, IN.
- 2018 Prassack, K.A., **Njau, J.K.**, Pante, M.C., McHenry, L.M., de la Torre, I. Vultures Moving in: Fossil Birds Suggest a More Open and Heterogeneous Landscape During the Oldowan-Acheulean Transition. The PaleoAnthropology Society, Austin, TX.
- 2018 Pante, M., Keevil, T., Muttart, M., Orlikoff, E., Tolley, A., **Njau, J.K.**, Pobiner, B. The past, present, and future of bone surface modification research. The PaleoAnthropology Society, Austin, TX.
- 2017 **Njau, J.K.** & Blumenschine, R.J. Evolution of the Greater Serengeti: Geological, Paleontological and Paleoanthropological perspectives. The Greater Serengeti Ecosystem Symposium. Seronera, Serengeti.
- 2017 **Njau, J.K.**, McHenry, L.J., Stanistreet, I.G., Stollhofen, H., Schick, K., Toth, N. Linking drill cores to outcrop: high-resolution reconstruction of hominin paleolandscapes at Olduvai Gorge. East African Association of Paleoanthropology & Paleontology (EAAPP). Addis Ababa, Ethiopia.
- 2017 McHenry, L.J., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Deino, A.L., Schick, K., Toth, N. Using tephrostratigraphy to link cores to outcrops at Olduvai Gorge, Tanzania. The PaleoAnthropology Society. Vancouver, BC.
- 2017 Pante, M.C., **Njau, J.K.**, Torre, I., McHenry, L. The feeding behavior of early Homo at HWK-EE, Bed II, Olduvai Gorge. The PaleoAnthropology Society. Vancouver, BC.
- 2017 Brassell, S.C., Colcord, D.E., Shilling, A.M., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N. Molecular stratigraphic records of climatic and environmental change at Lake Olduvai (~1.8 Myr). Goldschmidt.
- 2017 Brassell, S.C., Colcord, D.E., Shilling, A.M., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N. Biogeochemical evidence

- from sedimentary records of short-term changes in the depositional environment of Lake Olduvai (~1.86 Ma). European Association of Organic Geochemists.
- 2017 Shilling, A.M., Colcord, D.E., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N., Brassell, S.C. Biomarkers record changes in the depositional environment of Paleolake Olduvai concurrent with increased hominin diversity. European Association of Organic Geochemists.
- 2017 Muttart, M., Pante, M.C., Torre, I., **Njau, J.K.** Taxonomic distinctions in the 3-D micromorphology of tooth marks with application to feeding traces from Middle Bed II, Olduvai Gorge, Tanzania. PaleoAnthropology Society. Vancouver, BC.
- 2017 Njau, J.K. Predator avoidance and origins of Oldowan hominin cognitive behavior at Olduvai. Institute of Vertebrate Paleontology & Paleoanthropology, Chinese Academy of Science, Beijing, China (Stone Age Institute workshop funded by John Templeton Foundation)
- 2017 **Njau, J.K.** Beyond Olduvai: contemporary records of early Homo in Eurasia and China. Shaanxi Normal University, Xian, China (Stone Age Institute workshop funded by John Templeton Foundation).
- 2016 **Njau, J.K.** Early hominins at Olduvai Gorge, Tanzania and their paleoenvironmental context. Homo erectus 100+25 International Conference. Tbilisi, Republic of Georgia.
- 2016 **Njau, J.K.** What Drives Human Cognitive Evolution? The origin of early Homo in Eurasia, at Dmanisi, Republic of Georgia (Stone Age Institute workshop funded by John Templeton Foundation).
- 2016 McHenry, L.J., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Deino, A.L., Schick, K., Toth, N. A tuff job: linking cores to outcrop using tephrostratigraphy at Pleistocene Olduvai Gorge, Tanzania. Geological Society of America (GSA). Denver, CO.
- 2016 Stanistreet, I.G., **Njau, J.K.**, Schick, K., Toth, N., Stollhofen, H., McHenry, L.J., Deino, A.L. Correlating known hominin sites and paleolandscapes to the OGCP cores, Olduvai Gorge, Tanzania. Geological Society of America (GSA). Denver
- 2016 Brassell, S.C., Colcord, D.E., Shilling, A.M., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N., Biogeochemical proxies of climatic and environmental change from the sedimentary record of Paleolake Olduvai (~1.80 - 1.88Ma). American Geophysical Union (AGU).
- 2016 Pante, M., **Njau, J.K.**, Keevil, T., Muttart, M., Blumenshine, R.J. A quantitative reassessment of feeding trace morphology and implications for the earliest archaeological cut marked bones. Paleoanthropology Society. Atlanta, GA.
- 2016 Colcord, D.E., Shilling, A.M., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N., Brassell, S.C. Organic geochemical proxies of climatic and environmental change from the sedimentary record of Olduvai Gorge (~1.85 - 1.88Ma). Geological Society of America (GSA). Denver.
- 2016 Shilling, A.M., Colcord, D.E., Freeman, K.H., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H., Schick, K.D., Toth, N., Brassell, S.C. Sedimentary biomarkers record environmental changes associated with shallowing of Lake Olduvai (ca. 1.8 Myr). Geological Society of America (GSA). Denver, CO.

- 2016 Muttart, M., Pante, M. & **Njau, J.K.** Quantifying taxonomic distinctions in tooth mark morphology with high-resolution 3-D scanning. Paleoanthropology Society. Atlanta, GA.
- 2016 Kearney, J., Johnson, C.C. & **Njau, J.K.** Using conglomerates and paleosols to make paleoenvironmental reconstructions in the Side Gorge of Olduvai Gorge, Tanzania. Geological Society of America (GSA). Denver, CO.
- 2015 **Njau, J.K.**, Stanistreet, I., McHenry, L.J., Stollhofen, H., Schick, K., Toth, N. New investigations on hominin paleolandscapes, paleoenvironments and paleoclimates through scientific drilling at Olduvai Gorge, Tanzania. Geological Society of America (GSA). Baltimore, MD.
- 2015 McHenry, L.J., **Njau, J.K.**, Torre, I., Pante, M. Detailed stratigraphic correlations across the Pleistocene Olduvai basin, northern Tanzania, at the Oldowan-Acheulean technological transition. Geological Society of America (GSA). Baltimore, MD.
- 2015 Johnson, C.C., **Njau, J.K.**, Van Damme, D., Schick, K., Toth, N. Paleoecology of fossil molluscan bivalves, Bed III, Olduvai Gorge, Tanzania. Geological Society of America (GSA). Baltimore, MD.
- 2015 Yohler, R.M., **Njau, J.K.** & Brophy, J.G. A geophysical approach to understanding the Olduvai Gorge Basin subsurface: Using magnetics to track Bed I basalt flows. Geological Society of America (GSA). Baltimore, MD.
- 2015 Ascari, S.H. & **Njau, J.K.** Isotopic analyses of fossil bones and teeth of herbivores and crocodiles from Pleistocene Olduvai Basin, Tanzania. Geological Society of America (GSA). Baltimore, MD.
- 2015 Swartz, S.M. & **Njau, J.K.** 3D Modeling off-grid: Photogrammetry as a field resource for creating polygonal models of fossil material at Olduvai Gorge, Tanzania. Geological Society of America (GSA). Baltimore, MD.
- 2015 Kearney, J., Johnson, C.C., **Njau, J.K.** Reconstructing paleoenvironments to determine ecological evolutionary drivers for Homo erectus during Beds III-IV times, Olduvai Gorge, Tanzania. Geological Society of America (GSA). Baltimore, MD.
- 2015 Freeman, K.H., Doman, C., Colcord, D., Brassell, S.C., **Njau, J.K.**, Stanistreet, I., Schick, K., Toth, N. Biomarker signatures of fire and grassland-forest transitions associated with hominins at Olduvai Gorge, Tanzania. Geological Society of America (GSA). Baltimore, MD.
- 2015 Toth, N., Schick, K., **Njau, J.K.**, Stanistreet, I. The Olduvai Geological Coring Project: Providing a new paleoenvironmental context for human evolution at Olduvai Gorge, Tanzania. Paleoanthropology Society. San Francisco, CA.
- 2014 **Njau, J.K.**, Pante, M., McHenry, L.J., de la Torre, I. Paleoenvironments of Bed II Olduvai Gorge, Tanzania. Journal of Vertebrate Paleontology.
- 2014 Johnson, C.C., **Njau, J.K.**, Kauffman, C.E., Kauffman, E., Toth, N., Schick, K. and Kearney, J. Bivalve mollusc assemblage of Bed III, Olduvai Gorge, Tanzania. 10th North American Paleontology Convention, Abstract Book, p. 35.
- 2013 **Njau, J.K.**, Kihyo, J., Msemwa, P., Kweka, A., Pareso, J., Gidna, A., Hlusko, L.J. Fossils from Olduvai Gorge come home and go online. American J. Physical Anthropology 150, [DOI: 10.1002/ajpa.22247](https://doi.org/10.1002/ajpa.22247) S56.



- 2013 Hensley-Marschand, B., **Njau, J.K.**, Vermillion, W. Hippopotamus at Olduvai Gorge indicates persistent wetland environments during a period of increasing aridification in early hominin evolution. *J. Vertebrate Paleontology*, Suppl. Issue.
- 2013 Hlusko, L.J., Reiner, W., **Njau, J.K.** A new 1 million-year-old hominid distal ulna and other 2012 fossil discoveries from Olduvai Gorge, Tanzania. *American J. Physical Anthropology*, 150 [DOI: 10.1002/ajpa.22247](https://doi.org/10.1002/ajpa.22247).
- 2013 Wärmländer, S.K.T.S & **Njau, J.K.** Identifying the Source of Bone Marks via Optical Profilometry 3D Images. *American J. Physical Anthropology*, 150, [DOI: 10.1002/ajpa.22247](https://doi.org/10.1002/ajpa.22247)
- 2012 **Njau, J.K.** & Hlusko, L.J. Introducing CODI (the Comprehensive Olduvai Database Initiative): An electronic repository of information about fossils from Olduvai Gorge. *Paleoanthropology Society*. Pp. 22.
- 2012 Hlusko, L.J. & **Njau, J.K.** An electronic repository of terrestrial vertebrate fossils from the Plio-Pleistocene of Olduvai Gorge, Tanzania. *J. Vert. Paleontology*.
- 2012 Copeland, S.R., Reed, D., Blumenschine, R.J., **Njau, J.K.**, Sponheimer, M., Richards, M. Tracking ancient animal movements in Northern Tanzania using Strontium isotopes. *American J. Physical Anthropology* 147 (S54), 120.
- 2011 de la Torre, I., McHenry, L.J., Pante, M., **Njau, J.K.** New archaeological research on the origins of the Acheulean at Olduvai Gorge. *Paleoanthropology Society*.
- 2010 **Njau, J.K.** and Blumenschine, R.J. Hominin Predation Hazards from Carnivores on the FLK *Zinjanthropus* and FLKNN OH7/OH8 Landscapes, Olduvai Gorge. *Paleoanthropology Society* A30.
- 2010 Ungar, P.S., Krueger, K.L., Blumenschine, R.J., Scott, R.S., **Njau, J.K.** Dental microwear texture analysis of newly discovered hominins from Olduvai Gorge. *American Journal of Physical Anthropology* (Suppl. 50, 232A).
- 2008 Brochu, C.A., **Njau, J.K.**, Blumenschine, R.J. & Densmore, L.I.D. Giant horned crocodiles from the Late Cenozoic of Africa: Stealth diversity revisited. *Journal of Vertebrate Paleontology* 28, 57A.
- 2008 Westaway, M., **Njau, J.K.**, & Wood, W. Towards a clearer understanding of the importance of crocodiles as taphonomic agents in the early hominin fossil record. *Australian Archaeological Association Annual Conference*, 63A.
- 2007 **Njau, J.K.** & Blumenschine, R.J. Crocodylian Predation Risk for Plio-Pleistocene Hominins at Olduvai Gorge, Tanzania. *Paleoanthropology Society*, A21.
- 2006 Blumenschine, R.J., Masao, F.T., Peters, C.R., Tactikos, J.C., Albert, R.M., Andrews, P., Bamford, M.K., Ebert, J.I., Hay, R.L., **Njau, J.K.**, Stanistreet, I.G., Stollhofen, H. Effects of proximity to stone material source on the landscape distribution of Oldowan stone artifacts in the Plio-Pleistocene Olduvai Basin, Tanzania. *Paleoanthropology Society*, A13.
- 2005 **Njau, J.K.** and Blumenschine, R.J. Bone modification by crocodylians in Plio-Pleistocene fossil assemblages, Olduvai Gorge, Tanzania. *Journal of Vertebrate Paleontology* 25, 96A.
- 2004 **Njau, J.K.** & Blumenschine, R.J. A diagnosis of crocodile damage to large vertebrate bones with fossil examples from Olduvai Gorge, Tanzania. *Paleoanthropology Society*, A54.

- 2004 **Njau, J.K.** & Blumenschine, R.J. Identifying large vertebrate bones modified by *Crocodylus niloticus* in modern and fossil assemblages. Society for American Archaeology.
- 2004 Blumenschine, R.J., Peters, C.R., Masao, F.T., **Njau, J.K.**, Stanistreet, I.G., Bamford, M. Albert, R.M., Ebert, J.I., and Andrews, P. The puzzling character of the first dense Oldowan hominid traces in the Olduvai Basin following the ca 1.8 Ma catastrophic eruption of Mt. Olmoti. Paleoanthropology Society, A44.

## **PROFESSIONAL SERVICE**

### Associate Editor

- Frontiers in Environmental Archaeology in Landscape and Geological Processes (2022-pres)
- Journal of Human Evolution (2009-2012)

### Guest Editor

- Journal of Human Evolution (2016-2018)

### Manuscript Reviewer

American J Physical Anthropology (Yearbook of Physical Anthropology), African Archaeological Review, Plos One, Palaios, Journal of Human Evolution.

### Grant Proposal Reviewer

National Geographic Society, The Leakey Foundation, NSF, Dutch Research Council (NOW), NSF GRFP, Palaeontological Scientific Trust (PAST), American Association of Biological Anthropology's Pollitzer Graduate Travel Award

### Professional Organizations Position

- President, East African Association for Paleoanthropology and Paleontology (EAAPP) (2019-present).
- Vice President, East African Association for Paleoanthropology and Paleontology (EAAPP) (2015-2019).
- Member, Scientific Advisory Committee, Palaeontological Scientific Trust (PAST), South African non-profit based organization (2011-2014).

### Professional Conference Organization

- 10<sup>th</sup> World Archaeological Congress, Session Convener, Darwin, Australia (2025)
- The East African Association for Paleoanthropology and Paleontology biennial conferences; Arusha, Tanzania (2009, 2022), Addis Ababa, Ethiopia (2011, 2017, 2024), Dar Es Salaam, Tanzania (2015), Nairobi, Kenya (2019).
- Olduvai Gorge Drilling for Scientific Research Workshop, Arusha, Tanzania (Co-organizer with N. Toth, K. Schick 2023).
- Olduvai Gorge Drilling for Scientific Research Concept Workshop, Stone Age Institute, Indiana (Co-organizer with N. Toth, K. Schick, 2014).

## **STUDENTS SUPERVISED AT IU**

### **Ph.D. Degrees, Chair**

Danielle Peltier-Thompson (current)

Title: Tectonic and paleoecological influence on the onset of Plio-Pleistocene hominin migration at Olduvai Basin, Tanzania.

Thomas W. LaBarge (current)

Title: Nitrogen and Zinc isotopic model of dietary niche and taphonomy of African Pleistocene megafauna.

Bristol Brabson (current)

Title: Modeling Traces of Hominin Activities on Paleolandscapes Using an Artificial Neural Network Approach, Olduvai Gorge, Tanzania.

Paul Farrugia (Graduated, 2024)

Title: Crocodylian craniodental ecomorphology and ecological niche modeling: A new approach for reconstructing hominin paleoecology in the East African Rift System.

### **MS. Degrees, Chair**

Matthew Koelbel (Graduated, 2024)

Title: A morphological study on the evolution of the hominin dental arcade shape, tooth dimensions, and early *Homo* phylogeny.

Sam Anderson (Graduated, 2023)

Title: Mapping Stratigraphy and Erosive Surfaces using UAV and Photogrammetry at Olduvai Gorge, Tanzania.

Thomas LaBarge (Graduated, 2022)

Title: Taphonomy and Ichnology of Nile Crocodile Feeding Behavior.

Baraka Mbise (Graduated, 2021)

Title: Covid-19 pandemic to Tanzania tourism industry and the country's response to socioeconomic crisis.

Silvia Ascari (Graduated, 2016)

Title: Isotopic analyses of fossil bones and teeth of herbivores and crocodiles from Bed I and Bed II of the Olduvai Gorge, Tanzania.

Sarah Swartz (Graduated, 2016)

Title: Quaternary faunal diversity and turnover at Olduvai Gorge.

David Grossnickle (Graduated, 2013)

### **Undergraduate, Advisor**

- Avery Matthew (Research on evolution of Carboniferous shark nurseries, SP25)
- Londyn Riley (Research on taphonomy of large African vertebrates, FA 2024)
- Kennedy Bright (Lab experience: fossils digitalization, FA23 & SP24)
- Alexandra Jacobs (Honors Thesis in Anthropology, 2020)
- Riley Edie (Research on taxonomic identification of Pliocene fossils, BS in Geology, 2020)
- Alexis Jarson (Honors Thesis, Anthropology, 2016).
- Crystal Wespestad: (STARS Scholar, 2015).
- Mallory Schreier (Honors thesis, BS in Geology & Anthropology, 2013).

- Gabriel Cole (Lab experience: curation & documentation of osteology & fossil specimens, FA24)
- Jackson Dumas (Lab experience: Pliocene horse fossils inventory and taphonomic analysis (FA22)
- Susan Mulligan (Lab experience, BS in Geology, 2016).
- Ryan Yohler (Field experience, BS Geology 2016).
- Mackenzie Kirchner-Smith (Lab experience, fossil extraction, 2013).

### **PhD & MS Committee Membership**

- Charles Salcido (PhD in Geology, 2024)
- Alex Zimmerman (PhD in Geology, 2020)
- Devon Colcord (PhD in Geology, 2019)
- Spencer Hellert (PhD in Geology, 2019)
- John Kearney (PhD in Geology, 2019)
- Andrea Shilling (PhD in Geology, 2019)
- Jenny Riley (PhD in Anthropology, 2017)
- Michael Smith (PhD in Geology, 2017)
- Emily Thorpe (MS in Geology, 2020)
- Ann Kort (MS in Geology, 2029)
- Wesley Vermillion (MS in Geology, 2016)
- Anupama Chanrdoth (degree sought, PhD in Geology)
- Samantha Hartzell (degree sought, PhD in Geology)
- Quentin Smith Jr (degree sought, PhD in Geology)
- Allison Bormet (degree sought, PhD in Geology)
- Lorena Jevnikar (degree sought, MS in Geology)
- Trenton Meir (degree sought, MS in Geology)
- Allison Nelson (degree sought, MS in Geology)

### **COURSES TAUGHT**

- Evolution of the Earth (EAS-E104)
- Missing Links and Human Origins (COLL-X 101)
- Earth Climate and History (EAS-E227)
- Paleoanthropology & Geology of Olduvai Gorge (EAS-X377/ G549)
- Paleoecology (G561)
- Evolution of Terrestrial Ecosystems, Advanced Seminar (G 490/690)
- Landscape Paleoecology, Advanced Seminar (G490/ G690)
- Vertebrate Taphonomy of East African Rift System, Advanced Seminar (G690)
- Olduvai Gorge, Advanced Seminar(G690)

### **DEPARTMENT AND UNIVERSITY SERVICE**

2023-pres. At Large Member - Executive Committee, African Studies Program, IUB.

2020-pres. Faculty Liaison, Advance College Project (ACP), Office of the Vice Provost for Undergraduate Education, IUB.

2020-pres Chair, Oversight Committee, IU Geology Field Station, Montana, EAS.

- 2023 Member, Policy Committee, EAS
- 2021-23 Member, Undergraduate Committee, EAS.
- 2020 Member, College Academic Fairness Committee (AFC), Undergraduate Academic Affairs, COAS, IUB.
- 2019 Member, Graduate Committee, EAS.
- 2017-19 Member, Undergraduate Committee, EAS.
- 2013-18 Presentations to the Advisory Board, Dept. of Geological Sciences.
- 2016-17 Task Force Committee member, African Studies Program Academic Initiatives Committee
- 2015-16 Member, Graduate Admissions Committee, Dept. of Geological Sciences.
- 2015 Development of IU Alumni College course for Tanzania Field School fund raising initiative for Olduvai Gorge Field School (with Prof. Jim Brophy).
- 2015 Member, Academic Initiatives Committee, African Studies Program.
- 2013 Judge for Crossroads Conference, Department of Geological Sciences.

## **PUBLIC SERVICE**

### **Education and outreach activities**

- 2020 Guest speaker; 4<sup>th</sup> & 5<sup>th</sup> Grade, University Elementary School, Bloomington.  
*How prehistoric people interacted with environments in the past.*
- 2019 Development of new hominid monuments, Olduvai Gorge Museum, Tanzania
- 2016-18 K-12 Science Teachers Workshops: Understanding evolution and how science work. Arusha Municipal Community Teachers, Tanzania. Funded by Stone Age Institute and John Templeton Foundation.
- 2011-13 K-12 Science Teachers Workshops: Understanding evolution and how science work. Natural History Museum Arusha, Tanzania <http://olduvai-paleo.org/k-12-teacher-workshops/>
- 2014 Comprehensive Olduvai Database Initiative <http://olduvai-paleo.org/>.
- 2013 Understanding evolution: “CSI: Olduvai Gorge, the work of Jackson Njau”  
[http://evolution.berkeley.edu/evolibrary/article/0\\_0\\_0/njau\\_01](http://evolution.berkeley.edu/evolibrary/article/0_0_0/njau_01)
- 2012 Human Evolution in Africa: Temporary exhibition at the Museum of Natural History in Arusha, Tanzania, highlighting major discoveries at Olduvai Gorge since 1911. Funded by British Academy, International Partnership.
- 2011 Google Luna-Geo Tech Talk; Satellite imagery & archaeological discoveries in Tanzania. Google headquarters, Mountain View, CA.
- 2011 African Curators Forum workshop, Addis Ababa, Ethiopia (funded by Palaeontological Scientific Trust-PAST).
- 2010 Research presentation to the Board of Trustees, The Leakey Foundation, CA.
- 2010 Ocean View Elementary School, CA; Dinosaurs, fossils and stone artifacts.
- 2009 Lecture on human origins in Africa. Albany Rotary Club, CA.

## **PROFESSIONAL SOCIETIES**

Paleoanthropology Society; The Eastern Africa Association for Paleoanthropology and Paleontology (EAAPP); American Association of Biological Anthropologists (AABA); Society of Vertebrate Paleontology (SVP); Geological Society of America (GSA).