

Kathryn L. Ranhorn, PhD
School of Human Evolution and Social Change
Institute of Human Origins
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EDUCATION

2017 PhD George Washington University (Human Paleobiology)
Dissertation: *Cultural Transmission and Lithic Technology in Middle Stone Age Eastern Africa*
2014 MA George Washington University, Human Paleobiology
2010 Kathryn W. Davis Projects for Peace Traveling Fellow (Tanzania)
2010 BA University of Florida, Anthropology, *summa cum laude*
Minor: African Studies
2008 Gilman Fellow Traveling Scholar, University of Dar es Salaam, Tanzania

ACADEMIC POSITIONS HELD

Arizona State University

2019-present Assistant Professor, School of Human Evolution and Social Change
2019-present Research Scientist, Institute of Human Origins
2019-present Director, Deep History and Ancient Technology Laboratory

Harvard University

2017-2019 Postdoctoral Fellow, Department of Anthropology, Peabody Museum of Archaeology and Ethnology

*PUBLICATIONS (graduate student co-author, *undergraduate student co-author)*

PEER-REVIEWED ARTICLES

In Review Tryon, C.A., *Romain, H., **Ranhorn, K.L.** The Mehlman archives and the archaeology of Nasera rockshelter, Tanzania. *Afriques*.

In Review Ruth A., C. SturtzSreetharan, M. Beresford, A. Brewis, S. BurnSilver, C.R. Caseldine, E. Estrada, D. Hruschka, M. Jehn, E. Ilboudo Nébié, K.J. Knudson, M.V. Kroot, J. Maupin, K. Michelaki, C. Morehart, R.G. Nelson, C. Drummond Otten, M.A. Peeples, **K.L. Ranhorn**, M.E. Smith, C.M. Stojanowski, A. Wutich & A. York. Online Student Engagement in Social Science Research Laboratories: Expert Advice on the Opportunities and Challenges. *Scholarship and Practice of Undergraduate Research*, invited submission, February 2025

In Review Ilboudo-Nebie, E., A.Wutich, C. Jacob, **K.L. Ranhorn**, A. Mehari, M. Wakhungu, M. Beresford, M. Kroot, M. N. Peter, N. Barry, F. Kirimi, & J. Wahome. Innovative applications of participatory methods in Africanist anthropology & archaeology: An analysis of six cases in Eastern and Western Africa. *Human Organization*, submitted December 2024.

In Review **Ranhorn, K.L.** Legacy, Lithics, and Loss: Assessing Technological Variation and Heritage Challenges at Nasera Rockshelter, Tanzania. *African Archaeological Review*.

- In Review Niespolo, E.M., Sharp, W.D. and **Ranhorn, K.L.** 230Th/U burial dating of burnt ostrich eggshells from Kisesse II, Tanzania. Contribution to special volume in honor of Richard Leakey.
- In Review **Ranhorn, K.L.**, Tryon, C.A., Sharp, W., Quinn, R., Porter, S., Patania, I., **Ogutu, J.**, Niespolo, E., **McNeil, J.**, **Mollet, S.**, **Mashaka, H.**, Marean, C.W., Lewis, J.E., Laird, M.F., Hallet, E., and Colarossi, D. Late Pleistocene-Holocene archaeology and paleoenvironments of the Kondoa region, Tanzania. *Société Préhistorique Française*.
- In Review Alissa Ruth, Kelly J. Knudson, Christopher C. Stojanowski, Christopher R. Caseldine, Matthew V. Kroot, Kostalena Michelaki, Christopher Morehart, Matthew A. Peeples, **Kathryn L. Ranhorn**, Michael E. Smith, Davina Two Bears. Lab-based Undergraduate Research Experiences (LUREs): Evidence of Effectiveness from the Social Sciences. *Journal of Field Archaeology*.
Contributed data, helped draft the manuscript, edited the manuscript.
11. 2025 Abdolazadeh, A., Olszewski D., **Ranhorn, K.L.** To What Extent Are Similarities In Lithic Artifacts Due to Convergence? *Journal of Paleolithic Archaeology*.
<https://doi.org/10.1007/s41982-025-00218-1>
IF 2.2 Contributed to drafting, editing, and revising the manuscript.
10. 2023 **Ranhorn, K.L.**, **Mavuso, S.**, Colarossi, D., Dogandzic, T., **Ziegler, M.J.**, **Warren, S.L.**, Braun, D.R., Harris, J.W.K., and E.K. Endiema. By the lakeshore: Late Pleistocene Human Occupation of Lake Turkana at Koobi Fora, Kenya. *Quaternary Science Reviews* 317: 108257. <https://doi.org/10.1016/j.quascirev.2023.108257>
IF: 4.0; Contribution: Designed the study, led fieldwork and data collection, coordinated data analysis and synthesis, wrote the paper, and led the revisions.
9. 2023 Pargeter, J., Brooks, A., Douze, K., Eren, M., Groucutt, H.S., **McNeil, J.**, Mackay, A., **Ranhorn, K.**, Scerri, E., **Shaw, M.**, Tryon, C., Will, M., Leplongeon, A., Replicability in Lithic Analysis. *American Antiquity* 88(2), 163-186. <https://doi.org/10.1017/aaq.2023.4>
IF: 2.8; Contribution: Co-designed the study during two in-person workshops and several virtual meetings, wrote code for data collection, wrote definitions for data collection, collected data, co-edited the paper.
8. 2022 Patania, I., Porter, S.T., Keegan, W.F., *Dihogo, R., *Frank, S., Lewis, J., **Mashaka, H.**, Ogutu, J., **Skosey-Lalonde, E.**, Tryon, C.A., Niespolo, E.M., Colarossi, D., and **Ranhorn, K.L.** Geoarchaeology and Heritage Management: Identifying and Quantifying Multi-Scalar Erosional Processes at Kisesse II Rockshelter, Tanzania. *Frontiers in Earth Science*, 9 (Special Issue on Cave Deposits: Processes, Approaches and Environmental Significance). <https://doi.org/10.3389/feart.2021.665193>
IF: 2.8; Contribution: Led fieldwork since 2015, co-designed study, collected data, arranged sample exports, significantly wrote and edited submissions and revisions.
7. 2022 Lipson, M., Sawchuk, E.A., Thompson, J.C., Oppenheimer, J., Tryon, C.A., **Ranhorn, K.L.**, de Luna, K.M., Sirak, K.A., Olalde, I., Ambrose, S.H., Arthur, J.W., Arthur, K.J.W., Ayodo, G., Bertacchi, A., Cerezo-Román, J.I., Culleton, B.J., Curtis, M.C., Davis, J., Gidna, A.O., Hanson, A., Kaliba, P., Katongo, M., Kwekason, A., Laird, M.F., Lewis, J., Mabulla, A.Z.P., Mapemba, F., Morris, A., Mudenda, G., Mwafulirwa, R., Mwangomba, D., Ndiema, E., Ogola, C., Schilt, F., Willoughby, P.R., Wright, D.K., Zipkin, A., Pinhasi, R., Kennett, D.J., Manthi, F.K., Rohland, N., Patterson, N., Reich, D., and Prendergast, M.E. Ancient DNA and deep population structure in sub-Saharan

African foragers. *Nature*, 603(7900), 290-296. <https://doi.org/10.1038/s41586-022-04430-9>

IF: 64.8; Contribution: Led fieldwork since 2015 at one study site, and significantly edited archaeological implications in submission and revisions.

6. 2021 Laird, M.F., Sawchuk, E.A., Kwekason, A., Mabulla, A.Z., Ndiema, E., Tryon, C.A., Lewis, J.E., **Ranhorn, K.L.** Human burials at the Kisesse II rockshelter, Tanzania. *American Journal of Physical Anthropology*, 175(1), 187-200. <https://doi.org/10.1002/ajpa.24253>

IF: 2.8; Contribution: Led fieldwork at the site since 2015 and edited submission and revisions.

5. 2020 Niespolo, E.M., Sharp, W.D., Tryon, C.A., Faith, J.T., Lewis, J., **Ranhorn, K.L.**, Mambelli, S., Miller, M.J. and Dawson, T.E. Carbon, nitrogen, and oxygen isotopes of ostrich eggshells provide site-scale Pleistocene-Holocene paleoenvironmental records for eastern African archaeological sites. *Quaternary Science Reviews*, 230, p. 106142. <https://doi.org/10.1016/j.quascirev.2019.106142>

IF: 4.0; Contribution: Led fieldwork at the site since 2015, edited the manuscript and revisions.

Before ASU

4. 2018 **Ranhorn, K.L.**, Tryon, C.A. New Pleistocene radiocarbon dates from Nasera rockshelter, Tanzania. *Journal of African Archaeology*. 16(2):211-222.
3. 2018 **Ranhorn, K.L.**, Braun, D.R., **Biermann, R.** *Greiner, E., *Wawrzyniak, D., Brooks, A.S. Evaluating prepared core assemblages with three dimensional methods: a case study from the Middle Paleolithic at Skhūl (Israel). *Archaeological and Anthropological Sciences*. Online 20 November 2018.
2. 2018 Tryon, C.A., Lewis, J.E., **Ranhorn, K.L.**, Kwekason, A., Alex, B., Laird, M., Marean, C.W., Niespolo, E., **Nivens, J.**, Mabulla, A. Middle and Later Stone Age Chronology of Kisesse II Rockshelter (UNESCO World Heritage Kondoa Rock-Art Sites), Tanzania. *PLoS One*.
1. 2017 Wilkins, J., Brown, K.S., **Oestmo, S.**, Pereira, T., **Ranhorn, K.L.**, **Schoville, B.J.**, Marean, C.W. Lithic Technological Responses to Late Pleistocene Glacial Cycling at Pinnacle Point Site 5-6, South Africa, *PloS One*.

PEER REVIEWED BOOK CHAPTERS

- In Review Goldstein, S.T., **James, S.**, **Ranhorn, K.L.** Over two million years of obsidian extraction, utilization, and exchange in Kenya, eastern Africa. In F.-X.L. Bourdonnec, M.S. Shackley, and M. Orange (Eds.), *Sourcing Obsidian*. Springer.
- In Review **Ranhorn, K.L.**, Lewis, J.E., Tryon, C.A. "What is the benefit of this research?" Manuscript submitted to edited volume *Conservation and Sustainable Use of Paleoanthropological Sites*, edited by Charles Musiba, Menno Welling, and Sam Makuvaza: Springer.
4. 2023 **Ranhorn, K.L.** and Bundala, M. Tanzanian Women in Archaeology. In S.L.L. Varela (Ed.), *Women in Archaeology*. Springer.

3. 2023 **Ranhorn, K.L.**, Colarossi, D., Molel, S., Laird, M. F., Lewis, J. E., Mashaka, H., Niespolo, E., Porter, S. T., Sawchuk, E., Sharp, W. D., Tryon, C. A., and Patania, I. (In Press). Kisese II Rockshelter, Tanzania. In D. Wright, A. Beyin, J. Wilkins, A. Bouzouggar, and D. Olszewski (Eds.), *Handbook of Pleistocene Archaeology of Africa: Hominin Behavior, Geography, and Chronology*. Springer.
2. 2020 Tryon, C.A. and **Ranhorn, K.L.** “Raw Material and Regionalization in Stone Age East Africa,” in: Groucutt, H.S. (Ed.), *Culture history and convergent evolution: Can we identify ancient populations using material culture?* pp. 143-156. Springer. DOI: 10.1007/978-3-030-46126-3_8
1. 2019 Tryon, C.A., Lewis, J.E., **Ranhorn, K.L.** “Excavating the Archives: The 1956 Excavation of the Late Pleistocene-Holocene Sequence at Kisese II (Tanzania),” in: Sahle, Y., Reyes-Centeno, H., Bentz, C. (Eds.), *Modern Human Origins and Dispersal*, Kerns Verlag, Tübingen.

EDITOR REVIEWED COMMENTARIES IN SCHOLARLY JOURNALS

- 2020 **Ranhorn, K.L.**, Premo, L., **Beney, M.**, Braun, D.R., Brooks, A.S., McPherron, S., Kuhn, S., **Paige, J.**, Pargeter, J., Subiaul, F., Stout, D., Tostevin, G. “Investigating the evolution of human social learning through collaborative experimental archaeology.” *Evolutionary Anthropology: Issues, News, and Reviews* 29, 53-55.
- 2020 Riede, F., Araujo, A.G.M., Barton, M.C., Bergsvik, K.A., Groucutt, H.S., Hussain, S.T., Fernandez-Lopez de Pablo, J., Maier, A., Marwick, B., Pyne, L., **Ranhorn, K.L.**, Reynolds, N., Riel-Salvatore, J., Sauer, F., Serwatka, K., and A. Zander. Cultural taxonomies in the Paleolithic—Old questions, novel perspectives, *Evolutionary Anthropology: Issues, News, and Reviews*, 29(2): 49-52. doi:10.1002/evan.21819
- 2019 Will, M., Tryon, C., Shaw, M., Scerri, E.M., **Ranhorn, K.L.**, Pargeter, J., McNeil, J., Mackay, A., Leplongeon, A., Groucutt, H.S., (2019). Comparative analysis of Middle Stone Age artifacts in Africa (CoMSAfrica). *Evolutionary Anthropology*, 28(2), 57. <https://doi.org/10.1002/evan.21772>
- 2018 Duke, H., Heffter, E., Hlubik, S., **Ranhorn, K.L.**, and Wolfhagen, J. (2018). The 83rd Society for American Archaeology meeting: New directions in the archeology of human evolution. *Evolutionary Anthropology: Issues, News, and Reviews*, 27(3), 102-104.

PROFESSIONAL COMMENTARIES AND REPORTS

- 2022 Comment for Jose Lobo, T. Whitelaw, L. M. A. Bettencourt, P. Weissner, M.E. Smith, S. Ortman, “Scaling of Hunter-Gatherer Camp Size and Human Sociality” in *Current Anthropology* 63:1 <https://doi.org/10.1086/719234>

EXTERNAL RESEARCH RECEIVED

- 2018-2022 L.S.B. Leakey Foundation Grant, High-resolution Late Pleistocene-Holocene excavations at Kisese II Rockshelter, Kondoa (Tanzania). (\$24,961)

Before ASU

- 2019 Cultural Evolution Society grant, funding to support workshop at the 2019 Society for American Archaeology annual meeting in Albuquerque, NM (\$1000)

- 2018 Graduate Women in Science Fellowship, Early Human Social Demography: The Late Stone Age at Kisesse II Rockshelter, Tanzania. (\$9,972.23)
- 2016-2017 L.S.B. Leakey Foundation Dissertation Fieldwork Grant, New Approaches to Modern Human Origins (\$5,969)
- 2015-2016 Wenner-Gren Foundation for Anthropological Research, Inc. Dissertation Fieldwork Grant, Late Pleistocene Lithic Technology in East Africa and the Origin of Modern Humans (\$19,690).
- 2014 Fulbright-Hays—U.S. Department of Education, Doctoral Dissertation Research Abroad, Human Origins in East Africa (\$41,442).
- 2012 Explorers Club Washington Group, Exploration and Field Research Grant, Exploring the Archaeological Context of Early *Homo sapiens* in Southeastern Tanzania (\$3,000).
- 2012 The Cosmos Club Foundation, Cosmos Scholars Grant, The Archaeological Context of Early *Homo sapiens* in Southeastern Tanzania (\$2,600).
- 2012 The Capitol Archaeological Institute, Rogers Excavation and Survey Scholarship, The Middle Stone Age of Southeastern Tanzania (\$1,000).
- 2010 Kathryn W. Davis Projects for Peace, Education and Microfinance with Makonde woodcarvers in Tanzania. (\$10,000)
- 2010 Society for Applied Anthropology Student Endowed Award (\$500)

EXTERNAL RESEARCH GRANTS RECEIVED WITH GRADUATE STUDENTS AND POSTDOCTORAL SCHOLARS

- 2024 Frank Brown African Scholarship, Leakey Foundation, Husna Mashaka
- 2024 Franklin Mosher Baldwin Fellowship, Leakey Foundation, Babalola Jacobs
- 2023 Frank Brown African Scholarship, Leakey Foundation, Husna Mashaka

RESEARCH AND TRAVEL GRANTS RECEIVED

- 2018 Harvard University Post-Doctoral Scholar Travel Award (\$750 award to Kathryn L. Ranhorn).
- 2012 George Washington University Lewis N. Cotlow Fund, Field Research Grant, The Middle Stone Age of Southeastern Tanzania (\$1,000 awarded to Kathryn L. Ranhorn)
- 2010 University of Florida University Women's Club Scholarship (\$1000 awarded to Kathryn L. Ranhorn)
- 2009 University of Florida Ronald E. McNair Scholarship Program (\$2,900 stipend awarded to Kathryn L. Ranhorn)
- 2009 University of Florida University Scholars Program (\$2000 stipend awarded to Kathryn L. Ranhorn)
- 2008 University of Florida International Center Study Abroad Scholarship (\$1000 award to Kathryn L. Ranhorn)
- 2008 U.S. Department of State Gilman Scholarship (\$5000 awarded to Kathryn L. Ranhorn)

CONFERENCE SYMPOSIA ORGANIZED

- 2022 "Human Evolution and Cultural Heritage Management in Africa: Papers in Honor of Professor Fidelis Masao", PanAfrican Archaeological Congress, Stonetown, Zanzibar. Aug 3-6, 2022.
- 2022 "Deep History and Community Joy", ASU Center for Global Health Annual Theme, Virtual.
- 2019 "Part II: Social Learning in the Paleolithic: Experimental Approaches," workshop preceding the 84th Annual Society for American Archaeology Meeting, Albuquerque, NM, April 7-9.

- 2018 “Social Learning in the Paleolithic: Experimental Approaches,” co-organized with Luke Premo at the 83rd Annual Society for American Archaeology Meeting, Washington, DC, April 11-15.

INVITED CONFERENCE PAPERS AND POSTERS PRESENTED

2. 2019 Tryon, C., Lewis, J., **Ranhorn, K.L.**, Marean, C.W., Hallett, E., Patania, I., Mashaka, H., Ogutu, J., Porter, S.T.P., Colarossi, D., Quinn, R., Niespolo, E.M., and W.D. Sharp. Les séquences de la fin du Quaternaire dans le centre-nord de la Tanzanie: archives et fouilles archéologiques de l’abri Kisesse II. French Prehistoric Society. Toulouse, France.
1. 2014 **Ranhorn, K.L.**, Braun, D.R., Brooks, A.S. What is Levallois? Quantifying Boëda’s volumetric conception with photogrammetry, Society for American Archaeology Program and Abstracts.

CONTRIBUTED CONFERENCE PAPERS AND POSTERS PRESENTED

* graduate student, + undergraduate student

46. 2025 *Mashaka, H., Kinyanjui, N. R., **Ranhorn, K.**, Porter, Samantha., and the Kondoa Deep History Partnership. Preliminary Analysis of Pleistocene-Holocene Phytoliths from Kisesse II Rockshelter (Tanzania). Society for African Archaeology, Portugal Summer 2025.
45. 2025 *Mashaka, H., Kinyanjui, N. R., Ranhorn, K., Porter, Samantha., and the Kondoa Deep History Partnership. Ancient Plant Remains from Kisesse II Rockshelter in Tanzania: What They Tell Us About Earth's Past. Institute for Social Science Research (ISSR). Graduate Student Poster Contest Spring 2025
44. 2024 *James, Sydney, Dillian, C., Clary, K., **Ranhorn, K.** Indigenous Knowledge and Public Lands: A collaborative approach to Indigenizing education in outdoor recreational spaces. Society for American Archaeology, Denver, Colorado.
43. 2024 Alissa Ruth, Kelly J. Knudson, Christopher C. Stojanowski, Christopher R. Caseldine, Matthew V. Kroot, Kostalena Michelaki, Christopher Morehart, Matthew A. Peeples, **Kathryn L. Ranhorn**, Michael E. Smith, Davina Two Bears. Lab-based Undergraduate Research Experiences (LUREs): Evidence of Effectiveness from the Social Sciences. *Journal of Field Archaeology*.
42. 2024 *Mashaka, H.K., Kinyanjui, N. Rahab, **Ranhorn, K.L.**, Porter, Samantha and the Kondoa Deep History Partnership. High-Resolution Reconstruction of Vegetation Distribution through Phytolith Assemblages in the Kisesse II Rockshelter, Dodoma Region. Eastern African Association for Paleoanthropology and Paleontology, Addis Ababa.
41. 2024 **Ranhorn, K.L.**, *Mashaka, H.K., *James, S.E, Kondoa Deep History Partnership Stewarding Vanishing Art and Heritage with Collaborative Paleoanthropology in Kondoa, Tanzania. Society for Applied Anthropology, Santa Fe.
40. 2024 *James, S.E., *Mashaka, H.K. , and **Ranhorn, K.L.** Traditional Ecological Knowledge in Land Stewardship: Perspectives from Kondoa, Tanzania. Society for Applied Anthropology, Santa Fe.
39. 2023 Pargeter, J., Will, M.W., Tryon, C.A., *Shaw, M., Scerri, E., **Ranhorn, K.L.**, McNeil, J., Mackay, A., Groucutt, H., Douze, K., Eren, M., Brooks, A.S., Leplongeon, A. Replicability in lithic flake analysis: Results from the Comparative Analysis of Middle Stone Age Artifacts in Africa (CoMSAfrica) research project. (online) Society for African Archaeology, Houston.
38. 2023 Will, M.W., Tryon, C.A., Shaw, M., Scerri, E., **Ranhorn, K.L.**, Pargeter, J., McNeil, J., Mackay, A., Leplongeon, A., Groucutt, H., Douze, K., Brooks, A.S. Introducing the

- network Comparative Analysis of Middle Stone Age artifacts in Africa (CoMSAfrica). Society for African Archaeology, Houston.
37. 2023 Porter, S.T.P., **Ranhorn, K.L.**, and the Kondoa Deep History Partnership. In with the Old, In with the New: Integrating Archival and Modern Digital Methods at Kisesse II, Tanzania. Paleoanthropology Society, Portland.
 36. 2023 Tryon, C.A., Pargeter, J., Will, M.W., Shaw, M., Scerri, E., **Ranhorn, K.L.**, McNeil, J., Mackay, A., Groucutt, H., Douze, K., Eren, M., Brooks, A.S., Leplongeon, A. Getting to 'big data' in the Paleolithic, or, when and how can we reliably aggregate lithic information? First results from the Comparative Analysis of Middle Stone Age Artifacts in Africa (CoMSAfrica) research project. Paleoanthropology Society, Portland.
 35. 2022 Mashaka, H.K., **Ranhorn, K.L.**, Ogutu, J., Mollel, S. From the classroom to archaeological field experiences and heritage work. PanAfrican Archaeological Congress. Stonetown, Zanzibar.
 34. 2022 **Ranhorn, K.L.** Lithic technological patterns in Tanzania and the need for multi-sector archaeological stewardship. PanAfrican Archaeological Congress, Stonetown, Zanzibar.
 33. 2022 **Ranhorn, K.L.** Deep History and Community Joy in Kondoa, Tanzania. Deep History and Community Joy Symposium. Online.
 32. 2022 Niespolo, E.M., Sharp, W.D., Fylstra, N., Aguirre-Palafox L.E., Tryon, C., Lewis, J., **Ranhorn, K.** Expanding the application of $^{230}\text{Th}/\text{U}$ burial dating of ostrich eggshells to burnt samples and by laser ablation. Geological Society of America. Denver, Colorado.
 31. 2022 *Huang, C., *Murray, J.K., *James, S., ⁺Ferrer, A.I., *Paige, J., *Hansen, N., **Ranhorn, K.L.** Flake it 'Til You Make It: Raw Material Quality, Skill, and Variation in Stone Tool Production. Poster presented at *Society of American Archaeology*. Online.
 30. 2021 ⁺Hansen, N.R., *Murray, J.K., ⁺Ferrer, A.I., ⁺Edington, H., and **Ranhorn, K.L.** Variation in Response to Heat-Treatment in Jasper from the Perkinsville Valley, Arizona. In *Society of American Archaeology*. Online.
 29. 2021 Hlubik, S., *Biernat, M., **Ranhorn, K.L.**, Ndiema, E.K., Kiura, P., and D.R Braun. A holistic approach to student engagement in field settings. Paper read at American Association of Biological Anthropologists, Online.
 28. 2021 Laird, M.F., Sawchuk, E.A., Kwekason, A., Mabulla, A.Z.P., Ndiema, E.K., Tryon, C.A., Lewis, J.E., and **Ranhorn, K.L.** Human burials at the Kisesse II rockshelter, Tanzania. Paper read at American Association of Biological Anthropologists, Online.
 27. 2020 Ssebuyungu, C, Mavuso S., Colarossi D., Dogandzic, T., *O'Brien, K., Ndiema, E., D.R. Braun, J.W.K. Harris and **K.L. Ranhorn**. GaJj17: A Middle Stone Age site at Koobi Fora, East Turkana (Kenya). American Association for Physical Anthropology (post-poned due to COVID-19).
 27. 2020 *Ribordy, M., **Ranhorn, K.L.**, Braun, D.R., **O'Brien, K.**, **Mavuso, S.**, Colarossi, D., Dogandzic, T., Ssebuyungu, C., **Warren, S.**, Harris, J.W.K., Ndiema, E.K. The Aquatic Fauna of GaJj17, a Late Pleistocene site at Koobi Fora, Kenya, and the implications of aquatic resources for human evolution. Paleoanthropology Society (post-poned due to COVID-19).
 26. 2019 I. Patania, **Ranhorn, K.L.**, J. Lewis, S.T. Porter, D. Colarossi, *H. Mashaka, *J. Ogutu, C. Tryon, The geoarchaeological history of Kisesse II Rockshelter, Tanzania. Paleoanthropology Society. Albuquerque, New Mexico.
 25. 2019 I. Patania, **Ranhorn, K.L.**, J. Lewis, S.T. Porter, D. Colarossi, *H. Mashaka, *J. Ogutu, C. Tryon, The geoarchaeological history of Kisesse II Rockshelter, Tanzania. East African Association of Paleontology and Paleoanthropology. Nairobi, Kenya.
 25. 2019 Quirin, C., Quinn, R., Lewis, J., **Ranhorn, K.L.**, Tryon, C.A. Mammalian enamel stable isotopic (d^{13}C , d^{18}O) evidence for environmental change during the MSA-LSA transition at the Kisesse II rockshelter, Tanzania. Program of the Annual Meeting of the Society for American Archaeology: 60.

24. 2019 **Ranhorn, K.**, Porter, S., Lewis, J., Tryon, C.A. Virtual reality at Kisesse II: A painted rockshelter in central Tanzania. Nyama Akuma (Society of Africanist Archaeologists Bulletin).
24. 2019 **Ranhorn, K.**, Tryon, C.A. A new radiocarbon chronology for Nasera rockshelter, Tanzania. Nyama Akuma (Society of Africanist Archaeologists Bulletin).
24. 2018 **Ranhorn, K.L.**, *Ogutu, J.J., Patania, I., *Mashaka, H., *Molel, S., *Munisi, N., Lewis, J.E., Tryon, C.A. Community Archaeology in Kondoa: New Excavations from the Late Pleistocene-Holocene Sequence at Kisesse II Rock Shelter, Tanzania. PaleoAnthropology Society. Austin, Texas.
23. 2018 *Kelsey, B., *Mavuso, S.*, Colarossi, D., Ssebuyungu, C., Ndiema, E.K., Harris, J.W.K., Braun, D.R., **Ranhorn, K.L.** The Lithostratigraphy of the Middle Stone Age in the Northeastern Turkana Basin. Paleoanthropology Society. Austin, Texas.
23. 2018 Niespolo, E.M., Sharp, W.D., Tryon, C.A., Faith, J.T., Lewis, J., **Ranhorn, K.L.**, Quinn, R., Mambelli, S., Miller, M.J., Dawson, T.E. Light stable isotopes of ostrich eggshells provide site-specific paleoenvironmental records during the Middle-to-Later Stone Age transition in Eastern Africa. Geological Society of America.
22. 2018 **Ranhorn, K.L.** and C.A. Tryon. A cultural transmission framework for studying late Quaternary hunter-gatherer lithic technology: the view from Nasera Rock.” Society for African Archaeology, Toronto.
21. 2018 **Ranhorn, K.L.**, Porter, S.T., Lewis, J., Tryon, C.T. Virtual Reality at Kisesse II: A Painted Rock Shelter in Kondoa, Central Tanzania. Society for African Archaeology, Toronto.
20. 2018 **Ranhorn, K.L.**, Tryon, C.A., Lewis, J.L. Quaternary human rock-shelter use in Africa: archaeological, ecological, and landscape perspectives. AFQUA Nairobi, Kenya.
20. 2018 Tryon, C.A., Lewis, J.E., **Ranhorn, K.L.**, Niespolo, E.M., Sharp, W.D., Quinn, R.L., Faith, J.T. A multi-proxy approach to understanding Late Pleistocene Eastern African paleoenvironments at archaeological sites in Kenya and Tanzania. American Geophysical Union, abstract ID 415212.
19. 2017 **Ranhorn, K.L.**, Lewis, J.E., Tryon, C.A., Kwekason, A., Mabulla, A. Renewed Investigations at Kisesse II Rockshelter, Kondoa, Tanzania (UNESCO World Heritage Centre). Annual Meeting of the International Committee on Archaeological Heritage Management (ICAHM) Program.
18. 2017 ⁺Murray, B.M., Colarossi, D., *Mavuso, S.S., *Dogandzic, T., ⁺Ziegler, M.J., ⁺Warren, S.L., Braun, D.R., Harris, J.W.K., **Ranhorn, K.L.** Multiscalar Approach to Archaeological Site Formation at GaJj17, East Turkana, Kenya, Geological Society of America Abstracts with Programs 49(6).
17. 2017 *Ssebuyungu, C., Dogandžić, T., *Mavuso, S.S., ⁺Hagen, L.V.H., ⁺Jirsa, C.E., ⁺Ziegler, M.J., ⁺Warren, S.L., Harris, J.W.K., Braun, D.R., **Ranhorn, K.L.** Site Formation Process at GaJj17 (East Turkana, Kenya), Eastern African Association for Paleontology and Paleoanthropology, Addis Ababa, Ethiopia.
16. 2017 **Ranhorn, K.L.**, *Dogandžić, T., *Mavuso, S.S., *Ssebuyungu, C., ⁺Hagen, L.V., ⁺Jirsa, C.E., ⁺Ziegler, M.J., ⁺Warren, S.L., Harris, J.W.K., Braun, D.R. GaJj17: An MSA Lake Shore Site at East Turkana, Society for American Archaeology Program and Abstracts.
15. 2017 ⁺Hagen, L.V., *Dogandzic, T., Harris, J.W., Braun, D.R., **Ranhorn, K.L.** Lithic Analysis of GaJj17: a Middle Stone Age Locality in Koobi Fora, northern Kenya, Society for American Archaeology Program and Abstracts.
14. 2017 ⁺Jirsa, C., *Dogandzic, T., Braun, D.R., **Ranhorn, K.L.** Assessing Edge Damage in MSA Lithic Assemblages: Experimental Proxies for the Analysis of Use and Post-Depositional Damage Society for American Archaeology Program and Abstracts.

13. 2017 ⁺Warren, S.L., ⁺Ziegler, M.J., *Mavuso, S.S., *Dogandžić, T., Harris, J., Braun, D.R., **Ranhorn, K.L.** Mapping MSA Deposits: Regional Geological Investigation of Upper Chari Member Sediments in the Ileret Region, East Turkana, Kenya, Society for American Archaeology Program and Abstracts.
12. 2017 ⁺Ziegler, M.J., ⁺Warren, S.L., ⁺Sseyebungo, C., *Mavuso, S.S., *Dogandžić, T., Harris, J., Braun, D.R., **Ranhorn, K.L.** Site Formation Analysis of Locality GaJ17 in the Koobi Fora Formation, Kenya, Society for American Archaeology Program and Abstracts.
11. 2016 **Ranhorn, K.L.**, Braun, D.R., Tryon, C.A., Brooks, A.S.B. Late Pleistocene Lithic Technological Patterns in East Africa, Society for American Archaeology Program and Abstracts.
10. 2016 Wilkins, J., Brown, K., Oestmo, S., Pereira, T., **Ranhorn, K.L.**, Schoville, B., Marean, C.W. Human–environment interaction through the Late Pleistocene on the South Coast, South Africa: Generating a high-resolution record of lithic technological change for integration with the SACP4 Palaeoscape model, *Quaternary International (AFQUA)* (404): 205.
9. 2015 Wilkins, J., Brown, K., Oestmo, S., Pereira, T., **Ranhorn, K.L.**, Schoville, B., Marean, C.W. A high-resolution ~110,000 year Middle Stone Age lithic technological sequence from Pinnacle Point, South Africa. Society for American Archaeology Program and Abstracts.
8. 2015 Tryon, C.A., Lewis, J.E., **Ranhorn, K.L.**, Laird, M., Mabulla, A.Z., Kwekason, A., Gidna, A., Ehrardt, C.L., Marean, C.W. Renewed investigation of the Late Pleistocene–Holocene archaeological and paleoenvironmental sequence from Kisese II rockshelter, Tanzania, *PaleoAnthropology* 2015: A34.
7. 2015 **Ranhorn, K.L.**, *Kaplan, R.S., Braun, D.R., Subiaul, F., Brooks, A.S. Detecting signatures of cultural transmission in lithic assemblages: an actualistic study, Society for American Archaeology Program and Abstracts.
6. 2014 Wilkins, J., Brown, K.S., Oestmo, S., Pereira, T., **Ranhorn, K.L.**, Schoville, B.J., Marean, C.W. A high-resolution Late Pleistocene (~90-50 ka) Middle Stone Age Lithic Technological Sequence at Pinnacle Point Site 5-6, South Africa, *PaleoAnthropology* 2014: A29.
5. 2013 **Ranhorn, K.L.**, Brooks, A.S., Masao, F.T., Yellen, J. The Middle Stone Age of Southeastern Tanzania. Society for American Archaeology Program and Abstracts.
4. 2013 **Ranhorn, K.L.**, Brooks, A.S., Masao, F.T., Ramadhani, S., J Yellen. New data on the Middle Stone Age from southeastern Tanzania. East African Association for Paleontology and Paleoanthropology Annual Meeting Abstracts.
3. 2012 **Ranhorn, K.L.** and Brooks, A.S. Quantifying symmetry in the Middle Stone Age: a morphometric analysis of projectile points from Botswana and Ethiopia, *PaleoAnthropology*: A29.
2. 2011 **Ranhorn, K.L.** Combining Microfinance and Socially-Responsible Tourism: Lessons from the Field. Society for Applied Anthropology, Seattle, WA, March 29-April 2.
1. 2010 **Ranhorn, K.L.** Homelessness in Gainesville: An Ethnography of Illness, Social Network, and Criminalization. Society for Applied Anthropology, Merida, Mexico, March 24-27.

INVITED WORKSHOPS ATTENDED

- 2019 Participated in “All these fantastic cultures? Cultural taxonomies in the Palaeolithic - old questions, novel perspectives organized” workshop organized by Felix Riede at Aarhus University, Sandbjerg Estate, Denmark, November 27-29.
- 2019 Participated in “Comparative Middle Stone Age in Africa” workshop organized by Katja Douze and Manuel Will at the University of Geneva, Geneva, Switzerland. Nov. 4-6.

- 2019 Participated in Radcliffe Workshop: “Archaeological evidence for early human dispersals around the Mediterranean basin” at Harvard University, Cambridge, Massachusetts, May 19-21.
- 2018 Participated in Radcliffe Workshop: “Comparative Middle Stone Age in Africa” workshop organized by Christian Tryon and Manuel will at Harvard University, Cambridge, Massachusetts, Nov. 5-6

INVITED TALKS

- 2024 African Genesis Epistemologies Conference, Yale University, November 2024
- 2024 “Humanizing Human Evolution”, University of Connecticut, September 9, 2024
- 2024 “We’re the Problem, It’s Us: Data Sovereignty and Paleoscience in the East African Rift System”, Last Glacial Workshop, New York University, September 4, 2024
- 2022 Stewarding vanishing art and heritage in Kondoa, Tanzania, Rift Valley Network, March 8 2022

Before ASU

- 2018 Guest Lecturer, Small Scale Societies, Harvard University
- 2018 “Recent Findings from the Middle Stone Age at East Turkana, Kenya”, Harvard University, Department of Human Evolutionary Biology
- 2018 “Cultural Transmission in the Middle Stone Age: Perspectives from Kondoa and Koobi Fora.” Stony Brook University, Archaeology Seminar Series, Department of Anthropology
- 2018 “Cultural Transmission in the Paleolithic: 3D Methods and Experimental Approaches.” University of Minnesota, Brown Bag Series, Department of Anthropology
- 2018 “Cultural Transmission in Middle Stone Age Eastern Africa”, University of Connecticut, Old World Archaeology Lecture Series, Department of Anthropology.
- 2017 “Writing a dissertation and obtaining a post-doctoral position”, Invited speaker for “The Professor Is In” student seminar, University of Minnesota
- 2017 “Cultural Transmission and Lithic Technology in Middle Stone Age Eastern Africa”, Yale University, Archaeology Brownbag Series, Department of Anthropology
- 2017 “Cultural Transmission and Lithic Technology in Middle Stone Age Eastern Africa”, Harvard University, Department of Anthropology

INVITED ASU TALKS

- 2024 “Stewarding Vanishing Art and Heritage with Collaborative Paleoanthropology”, Institute of Human Origins Lucy 50 Lecture Series (September 12)
<https://www.youtube.com/watch?v=70pJG2YcM30>
- 2023 “Lithic technology in human origins”, Institute of Human Origins breakfast talk organized by Herb Roskind (February 14)
- 2022 “Ancient DNA help reveal social changes in Africa 50,000 years ago that shaped the human story”, Spring Institute of Human Origins board meeting presentation, Tempe, Arizona. (April 20)
- 2020 “Community archaeology in Kondoa: New excavations from the Late Pleistocene-Holocene rockshelter at Kisesse II, Tanzania”, SHESC Archaeology Brownbag, Arizona State University (February 13)
- 2020 “Investigating the social behavior of the earliest humans in Eastern Africa”, ASM 300: Anthropological Sciences Seminar, Arizona State University (February 10)
- 2019 “When and how did humans begin to populate the globe?,” Fall Institute of Human Origins board meeting presentation, New York, New York. (November 5)

2019 “The Archaeology of Modern Human Origins: Views from Eastern Africa”
Undergraduate Anthropology Association invited speaker, Arizona State University
(October 23)

COURSES TAUGHT

Arizona State University

2021-present Buried Cities and Lost Tribes (ASB 222 Online)
2021-present Anthropological Sciences Seminar (ASM 300)
2020-present Pleistocene Archaeology / Human Cultural Beginnings (ASB 361)
2020-present Lithic Analysis (ASM 573)

Harvard University

2019 Sophomore Tutorial, Human Evolutionary Biology
2019 Junior Tutorial, Human Evolutionary Biology

MENTORSHIP

Arizona State University Postdoctoral Scholars (1 Total)

2022-present Aylar Abdolazadeh

Arizona State University Doctoral Students (Committee Chair or Co-Chair) (4 Total)

2024-present Babalola Jacobs
2023-present Husna Mashaka
2022-present Nicolas Hansen
2022-present Sydney James

Arizona State University Doctoral Students (Committee Member) (3 Total)

2024 Amy Rieth
2022-present John Murray
2022-present Cindi Huang
2021-2023 Aliya Hoff

Arizona State University Masters Students (Committee Chair or Co-Chair) (2 Total)

2023-2024 Franklin Norris
2021-2023 Nicolas Hansen
2020-2022 Sydney James

Arizona State University Masters Students (Committee Member) (3 Total)

2020-2022 John Murray
2020-2022 Cindi Huang
2020-2021 Dean Blumenfeld

Arizona State University Undergraduate Students Advised (2 Total)

2023-present Seth Chagi
2022-2023 Madeleine Oricchio (Barrett Honors College Thesis Advisor)
2019-2020 Nicolas Hansen (Barrett Honors College Thesis Advisor)

Arizona State University Undergraduate Students (6 Total)

2022 Dylan Myers (Undergraduate Research Apprentice)
2022 Katharine Namchek (Undergraduate Research Apprentice)
2022 Lilyann Nunley (Undergraduate Research Apprentice)
2021 Madeleine Oricchio (Undergraduate Research Apprentice)
2020 Nicolas Hansen (Undergraduate Research Apprentice)
2020 Alexa Ithxayana Ferrer (Undergraduate Research Apprentice)

PUBLIC OUTREACH

2023 ASU News Story, Anthropologist prioritizes the people part of research,
<https://news.asu.edu/20230718-global-engagement-anthropologist-prioritizes-people-part-research>

- 2023 ASU News Story, Stone Age tool-making lab rocks for ASU students,
<https://news.asu.edu/20230110-discoveries-stone-age-toolmaking-lab-rocks-asu-students>
- 2023 Undergraduate Anthropology Association's Networking with Faculty Event, Arizona State University, School of Human Evolution and Social Change
- 2023 Fall Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2023 Spring Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2022 Faculty Supervisor, Ancient Technology Laboratory Exhibit Design and Opening
- 2022 Spring Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2022 Fall Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2021 "Technological change in Late Pleistocene eastern Africa: community archaeology and experimental approaches." American Museum of Natural History Docents. (September 29)
- 2021 "Deep history and the co-production of knowledge." Staff research talk, Arizona State University, School of Human Evolution and Social Change. (April 2).
- 2021 Interactive Archaeology Activities co-created with lab group for Virtual Open Door
- 2021 Spring Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2021 Fall Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2020 Video Interview for Arizona PBS "Catalyst" with Institute of Human Origins; flintknapping on ASU Campus
- 2020 Spring Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2020 Fall Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2019 "Careers in Cultural Evolution", Organized and led panel presented to the University of New Mexico Anthropology Undergraduate Club, supported by the Cultural Evolution Society
- 2019 Fall Research Update, Institute of Human Origins Board Report and PowerPoint Slides
- 2018 "Community Archaeology in Kondo." In Situ, News and Events of the Harvard Standing Committee on Archaeology
- 2017 "Cultural Heritage in Tanzania", Video Interview (Swahili), Tanzania news broadcast Zamadamu, Filmed in Bagamoyo, Tanzania.
<https://www.youtube.com/watch?v=jOIUkMSsJuw&t=884s>
- 2016 "What is Archaeology?" Boy Scouts of America Exploration Merit Badge Pamphlet,
<https://bit.ly/2YzDHCj>
- 2016 "Moving on Up: 5 Financial Secrets No One Tells You About Graduate School". George Washington University Graduate Student Blog, <https://bit.ly/3j4Cr8P>
- 2015 "Photogrammetry in Archaeology." Department of Archaeology, University of Dar es Salaam
- 2015 "Protecting Olduvai's Treasures." George Washington University Student Blog: <https://bit.ly/3FuTN85>
- 2015 "Ancestors for Us All—Cultural Heritage and Prehistory Research in Tanzania." George Washington University Student Blog: <https://bit.ly/3oQDqNz>
- 2014 "Paleolithic Pilgrimage." George Washington University Student Blog: <https://bit.ly/3uUB54Y>
- 2013 "Percussive Tools and Particle Colliders." George Washington University Student Blog: <https://bit.ly/3mTvys3>
- 2012 "Interdisciplinary Adventures in Tanzania." George Washington University Graduate Student Blog: <https://bit.ly/2YvGL9E>
- 2012 "Igniting Curiosity in Children at the USA Science and Engineering Festival." George Washington University Graduate Student Blog: <https://bit.ly/3DpJB7>

PROFESSIONAL ACTIVITIES

Professional Service

2024- Treasurer, Eastern African Association of Paleontology and Paleoanthropology
 2020-2022 Bibliographic Database of African Archaeology Co-organizer
 2018-present Reviewer for the following publications: *Current Anthropology*, *Journal of Human Evolution*, *Journal of Paleolithic Archaeology*, *Journal of African Archaeology*, *Azania: African Archaeological Research*, *African Archaeological Review*, *PCI Archaeology*, Springer, *Evolutionary Anthropology*, *Evolutionary Human Sciences*, *Studies in the African Past*
 2019-present Reviewer for the following funding agencies: *National Science Foundation*, *Leakey Foundation*
 2019-present Research Scientist, Institute of Human Origins

Professional Associations

2019 Archaeological Institute of America
 2019 Cultural Evolution Society
 2017 International Committee on Archaeological Heritage Management
 2014 Reconstructive and Experimental Archaeology Conference
 2013-present Paleoanthropology Society
 2011-present East African Association for Paleontology and Paleoanthropology
 2011-present Society for American Archaeology
 2011-present Society for African Archaeology
 2010 American Anthropological Society

Unit Service, Arizona State University

2023- Member, Committee for Charter Initiatives
 2021-2022 Member, Curator of Collections Search Committee
 2021 Member, African Archaeology Target Hire
 2020-2021 Member, Critical Biologies Cluster Search Committee (2 positions)
 2020-2021 Member, Institute of Human Origins Director Search Committee
 2019-2023 Personnel Committee Member

Department Service, George Washington University

2017 GW Anthro Peer Advocates Organizer
 2013-2017 Diversity in Science Committee Cofounding Member

University Service, George Washington University

2017 Closing the Gender Gap in STEM, Invited Panelist, George Washington University

FIELD PROJECTS

2015-present Director, Kondoa Deep History and Heritage Partnership
 2013-2019 Senior Researcher, Koobi Fora Research and Training Program