

*Curriculum Vitae***KATHRYN L. RANHORN**

Institute of Human Origins
 School of Human Evolution and Social Change
 Arizona State University
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PROFESSIONAL EMPLOYMENT

2019- Assistant Professor, School of Human Evolution and Social Change,
 Arizona State University
 2019- Core Faculty, Institute of Human Origins
 2017-2019 Postdoctoral Fellow, Department of Anthropology, Harvard University
 2011-2017 Doctoral Student Researcher, The George Washington University
 2009-2010 Ronald E. McNair Program Fellow, University of Florida

EDUCATION

2017 Ph.D. in Anthropology, The George Washington University
 Committee chair: Alison S. Brooks
 2010 B.A. Anthropology with Highest Honors, University of Florida
 Minor: African Studies

GRANTS AND FELLOWSHIPS

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 Kisese II Rockshelter, Tanzania. (\$9,972.23)
 2018 *L.S.B. Leakey Foundation* Grant, High-resolution Late Pleistocene-Holocene excavations at Kisese II Rockshelter, Kondoia (Tanzania). (\$24,961)
 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).
- 2012 *Lewis N. Cotlow Fund*, Field Research Grant, 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)

PUBLICATIONS (*denotes student co-author)

PEER-REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS

- 2020 Niespolo, E.M., Sharp, W.D, Tryon, C.A., Faith, J.T., Lewis, J., **Ranhorn, K.**, 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.
- In Press **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.
- In Press 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?* Springer.
- 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.
- 2019 Will, M., Tryon, C., Shaw, M., Scerri, E.M., **Ranhorn, K.**, Pargeter, J., McNeil, J., Mackay, A., Leplongeon, A., Groucutt, H.S., 2019.
Comparative analysis of Middle Stone Age artifacts in Africa (CoMSAfrica). *Evolutionary Anthropology*.
- 2018 **Ranhorn, K.L.**, Tryon, C.A.
New Pleistocene radiocarbon dates from Nasera rockshelter, Tanzania. *Journal of African Archaeology*. 16(2):211-222.
- 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.

- In Review **Ranhorn, K.L.**, Lewis, J.E., Tryon, C.A.
 “What is the benefit of this research?”: A New Archaeological Heritage Project at Kisesse II Rock Shelter, Tanzania. SpringerBriefs in Archaeological Heritage Management.
- 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*.
- 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*.

PUBLISHED ABSTRACTS

- 2019 C. Tryon, J. Lewis, **K.L. Ranhorn**, C.W. Marean, E. Hallett, I. Patania, H. Mashaka, J. Ogutu, S. Porter, D. Colarossi, R. Quinn, E.M. Niespolo, 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.
- 2019 I. Patania, **K. Ranhorn**, J. Lewis, S. Porter, D. Colarossi, H. Mashaka, J. Ogutu, C. Tyron, The geoarchaeological history of Kisesse II Rockshelter, Tanzania. Paleoanthropology Society. Albuquerque, New Mexico.
- 2019 I. Patania, **K. Ranhorn**, J. Lewis, S. Porter, D. Colarossi, H. Mashaka, J. Ogutu, C. Tyron, The geoarchaeological history of Kisesse II Rockshelter, Tanzania. East African Association of Paleontology and Paleoanthropology. Nairobi, Kenya.
- 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.
- 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.
- 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.
- 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.
- 2018 Ranhorn, K.L., Tryon, C.A., Lewis, J.L.
Quaternary human rock-shelter use in Africa: archaeological, ecological, and landscape perspectives. Organized Session, AFQUA Nairobi, Kenya.
- 2018 Ranhorn, K.L. and Premo, L.
Social Learning in the Paleolithic: Experimental Approaches, Organized Session. Society for American Archaeology Program and Abstracts.
- 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.
- 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).
- 2017 *Ssebuyungo, 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.
- 2017 Ranhorn, K.L., *Dogandžić, T., *Mavuso, S.S., *Sseyebungo, 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.
- 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.
- 2017 *Jirsa, C., *Dogandzic, T., Braun, D.R., **Ranhorn, K.**
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.
- 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.
- 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 GaJj17 in the Koobi Fora Formation, Kenya, Society for American Archaeology Program and Abstracts.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

TEACHING EXPERIENCE

Courses Prepared to Teach:

Introduction to Archaeology
African Archaeology
Paleolithic Archaeology
Community Archaeology and Heritage Management
Archaeology in the Digital Age
Swahili (Beginning, Intermediate, Advanced)
Human Evolution

Harvard University:

2019 Sophomore Tutorial, Junior Tutorial

George Washington University:

2012, 2014 Teaching Assistant, Human Cultural Beginnings
2013- Field Instructor and Faculty Mentor, Koobi Fora Field School
2013 Instructor, Swahili
2012 Teaching Assistant, Biological Bases of Human Behavior
2012 Teaching Assistant, Introduction to Biological Anthropology

University of Florida:

2009 Teaching Assistant, Sociology of Poverty
2009 Tutor, Swahili
2009 Tutor, Anthropology

INVITED LECTURES

2019 Arizona State University, School of Human Evolution and Social Change. "The role of cultural transmission in early modern human dispersals"
2018 Guest Lecturer, Small Scale Societies, Harvard University
2018 Harvard University, Department of Human Evolutionary Biology, "Recent Findings from the Middle Stone Age at East Turkana, Kenya"
2018 Stony Brook University, Archaeology Seminar Series, Department of Anthropology. "Cultural Transmission in the Middle Stone Age: Perspectives from Kondoia and Koobi Fora"
2018 University of Minnesota, Brown Bag Series, Department of Anthropology. "Cultural Transmission in the Paleolithic: 3D Methods and Experimental Approaches"
2018 University of Connecticut, Old World Archaeology Lecture Series. Department of Anthropology. Planned April 29th. "Cultural Transmission in Middle Stone Age Eastern Africa"
2017 Yale University, Archaeology Brownbag Series, Department of Anthropology. "Cultural Transmission and Lithic Technology in Middle Stone Age Eastern Africa"
2017 Harvard University, Department of Anthropology. "Cultural Transmission and Lithic Technology in Middle Stone Age Eastern Africa"
2017 Harvard University, Department of Human Evolutionary Biology, "Social Learning in the Paleolithic"
2015 Department of Archaeology, University of Dar es Salaam, "Photogrammetry in Archaeology"

PROFESSIONAL MEMBERSHIPS

Paleoanthropology Society
East African Association for Paleontology and Paleoanthropology (EAAPP)
Archaeological Institute of America (AIA)
Society for American Archaeology (SAA)
Society for African Archaeology (SAfA)
American Anthropological Society (AAA)
Reconstructive and Experimental Archaeology (REARC)
Cultural Evolution Society (CES)
International Committee on Archaeological Heritage Management (ICAHM)

REVIEWER

Journal of African Archaeology
Azania: African Archaeological Research
African Archaeological Review

AWARDS AND RECOGNITION

2017 Council of Graduate Studies Distinguished Dissertation Award, George Washington University Nominee
2011 Society for Applied Anthropology, Peter K. New Award, Honorable Mention
2011 Society for Applied Anthropology, Valene Smith Prize for Student Poster on Tourism

MEDIA AND IMPACT

2017– Social Media Manager, Kondoa Archaeological Research and Heritage Project
<http://www.facebook.com/kondoa.archaeology>
2017 Video Interview (Swahili), Tanzania news broadcast *Zamadamu*,
“Cultural Heritage in Tanzania”, Filmed in Bagamoyo, Tanzania
<https://www.youtube.com/watch?v=jOIUkMSsJuw&t=884s>
2016 Contributor, Boy Scouts of America Exploration Merit Badge Pamphlet,
“What is Archaeology?”
<http://www.scoutstuff.org/mbp-4c-exploration.html#.WpRE2BPwYy5>
2012-2015 Contributor, George Washington University Blog:
“Protecting Olduvai’s Treasures”
<https://bit.ly/2QT3ZNO>
“Ancestors for Us All—Cultural Heritage and Prehistory Research in Tanzania”
<https://bit.ly/2yibF5m>
“Igniting Curiosity in Children at the USA Science and Engineering Festival”
<https://bit.ly/2RPr70T>

INCLUSIVITY AND MENTORSHIP ACTIVITIES

2019 Organizer and Panelist, “Careers in Cultural Evolution”, Panel presented to the University of New Mexico Anthropology Undergraduate Club, supported by the Cultural Evolution Society
2017–present Kondoa Archaeological Research and Heritage Project, Director
<https://www.facebook.com/kondoa.archaeology>
2013-2018 Koobi Fora Research and Training Program (KF RTP), Senior Researcher
Mentored three African students and seven US-based undergraduates (five women), developed code of conduct and sexual harassment policy

- 2013-2017 Diversity in Science, Co-Founder
 Organized mentorship events for graduate students, educational outreach events to local DC public schools, and departmental journal club discussions on topics including gender bias and sexual assault and harassment in academia
- 2017 GW Anthro Peer Advocates, Director
 Organized and received official training from GW's Title IX office on sexual harassment and assault disclosure and reporting, hosted tiered mentorship events, co-hosted workshop on unconscious bias, served as non-mandatory reporter
- 2017 "The Professor Is In", Invited Speaker, "How to write up a dissertation and obtain a post-doctoral position", University of Minnesota, 2017
- 2017 Closing the Gender Gap in STEM, Invited Panelist, George Washington University, 2013

STUDENT MENTEES (selected)

Husna Mashaka, Tanzania, University of Nairobi
Julius Ogutu, Tanzania, University College London Qatar
Chris Ssebuyungu, Uganda, Uganda National Museum
Neema Munisi, Tanzania, University of Dar es Salaam
Bridget Murray, University of Alabama
Sarah Molel, Tanzania, University of Dar es Salaam
Michael Ziegler, University of Florida
Shannon Warren, University of Kansas
Courtney Jirsa, Boston University
Brady Kelsey, University of Florida

Mentees have been accepted into graduate programs and presented at national conferences as undergraduates.