

John Rowan

Assistant Professor, Department of Anthropology

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Professional Appointments

2020-Present Assistant Professor, Department of Anthropology
University at Albany, State University of New York

2020-Present Adjunct Lecturer, Department of Biological and Physical Sciences
Turkana University College (Kenya)

2019-20 Darwin Postdoctoral Fellow, Organismic and Evolutionary Biology
University of Massachusetts Amherst

2018-19 Postdoctoral Fellow, Department of Anthropology
University of Massachusetts Amherst

Education

2018 Ph.D., Evolutionary Anthropology
Arizona State University

2014 M.A., Evolutionary Anthropology
Arizona State University

2012 B.A., Biology (cum laude, Program Distinction)
Stockton University

Grants and Fellowships

2021 “Lothagam: Hominin origins and faunal turnover in the late Miocene”
Turkana Basin Institute (\$158,235; co-PI: I. Nengo)

2021 “Did an increasingly carnivorous *Homo erectus* cause Pleistocene mammal
extinctions in eastern Africa?”
National Science Foundation (\$90,099; co-PIs: W.A. Barr, K.L. Chritz, A. Du)

2019 “Multiproxy paleoecology of ~ 2.35 Ma early *Homo* from Ethiopia”
Leakey Foundation (\$13,996; co-PIs: J. Robinson, I.A. Lazagabaster)

2017 Dissertation Completion Award
Arizona State University (\$22,400)

2016 Graduate Research Grant

- Arizona State University (\$1,944)
- 2014 Graduate Research Fellowship
National Science Foundation (\$138,000)
- 2012 Multi-year Graduate Fellowship
Arizona State University (\$134,064)
- 2011 Board of Trustees Fellowship for Distinguished Students
Stockton University (\$1,000)

Peer-Reviewed Publications (*student author)

In Press

[33] **Rowan, J.**, Lorenzen, E. D., Bibi, F. Evolutionary biogeography of African antelopes: implications for *Paranthropus*. In: P. J. Constantino, K. E. Reed, B. A. Wood (eds) *The Forgotten Lineage(s): Paleobiology of Paranthropus*. Springer.

[32] Campisano, C.J., **Rowan, J.**, Reed, K.E. The Hadar Formation, Afar Regional State, Ethiopia: Geology, Fauna, and Paleoenvironmental Reconstructions. In: S. Reynolds and R. Bobe (eds) *African Paleoecology and Human Evolution*. Cambridge University Press.

2021

[31] Faith, J. T., Du, A., Behrensmeyer, A. K., Davies, B., Patterson, D. B., **Rowan, J.**, Wood, B. A. Rethinking the ecological drivers of hominin evolution. *Trends in Ecology and Evolution*. 36: 797-807.

[30] Robinson, J. R., **Rowan, J.**, Barr, W. A., Sponheimer, M. Intrataxonomic trends in herbivore enamel $\delta^{13}\text{C}$ are decoupled from woody cover. *Nature Ecology and Evolution*. 5: 995-1002.

[29] *Lundgren, E. J., *Schowanek, S. D., **Rowan, J.**, *Middleton, O., Davis, M., Ramp, D., Pedersen, R. O., Sandom, C. J., Wallach, A. D., Svenning, J.C. Functional traits of the world's late Quaternary large-bodied mammalian herbivores. *Nature Scientific Data*. 8: 1-21.

[28] *Schowanek, S. D., Davis, M., *Lundgren, E. J., *Middleton, O., **Rowan, J.**, Pedersen, R. O., Ramp, D., Sandom, C. J., Svenning, J.C. Assessing the global potential to restore large herbivore assemblages following historic and prehistoric trophic downgrading. *Global Ecology and Biogeography*. 30: 896-908.

[27] O'Brien, K. O., Tryon, C. A., Blegen, N., Kimeu, B., **Rowan, J.**, Faith, J. T. First appearance of Grévy's zebra (*Equus grevyi*) from the Middle Pleistocene Kapthurin Formation, Kenya, sheds light on the evolution and paleoecology of large zebras. *Quaternary Science Reviews*. 256: 106835.

2020

[26] **Rowan, J.**, Beaudrot, L., Franklin, J., Reed, K.E., *Zamora, A., *Smail, I.E., Kamilar, J.M. Geographically divergent evolutionary and ecological legacies shape mammal diversity in the global tropics and subtropics. *Proceedings of the National Academy of Sciences USA* 117: 1559-1565.

[25] Faith, J. T., **Rowan, J.**, *O'Brien, K., Blegen, N., Peppe, D. Late Pleistocene mammals from Kibogo, Kenya: systematic paleontology, paleoenvironments, and non-analog associations. *Journal of Vertebrate Paleontology*. 40: e1841781.

[24] Faith, J.T., **Rowan, J.**, Du, A., Barr, W.A. The uncertain case for human-driven extinctions prior to *Homo sapiens*. *Quaternary Research* 96: 88-104.

[23] *Lundgren, E.J., Ramp, D., **Rowan, J.**, *Middleton, O., *Schowanek, S., Sanisidro, O., Carroll, S.P., Davis, M., Sandom, C.J., Svenning, J.C., Wallach, A. Introduced herbivores restore Late Pleistocene ecological functions. *Proceedings of the National Academy of Sciences USA* 117: 7871-7878.

[22] Sandom, C., *Middleton, O., *Lundgren, E.J., **Rowan, J.**, *Schowanek, S., Svenning, J.C., Faurby, S. Trophic rewilding presents regionally specific opportunities for mitigating climate change. *Philosophical Transactions of the Royal Society of London B: Biological Sciences* 375: 20190125.

2019

[21] **Rowan, J.**, Faith, J.T. The paleoecological impact of grazing and browsing: consequences of the late Quaternary large mammal extinctions. In: I. Gordon and H. Prins (eds) *The Impact of Browsing and Grazing* (pp 61-79). Springer.

[20] Du, A., **Rowan, J.**, Wang, S.C., Wood, B.A., Alemseged, Z. Estimated origination and extinction ages shed light on the evolutionary relationships of the *Australopithecus anamensis-afarensis* lineage. *Journal of Human Evolution* 138: 102688.

[19] Faith, J.T., **Rowan, J.**, Du, A. Early hominins evolved in non-analog ecosystems. *Proceedings of the National Academy of Sciences USA* 116: 21478-21483.

[18] Faith, J.T., Du, A., **Rowan, J.** Addressing the effects of sampling on ecometric-based paleoenvironmental reconstructions. *Palaeogeography, Palaeoclimatology, Palaeoecology* 528: 175-185.

2018

[17] **Rowan, J.**, *Martini, P., Likius, A., Merceron, G., Boisserie, J.R. New Pliocene remains of *Camelus grattardi* (Mammalia, Camelidae) from the Shungura Formation, lower Omo Valley, Ethiopia and the evolution of African camels. *Historical Biology*: 1-12.

[16] Faith, J.T., **Rowan, J.**, Du, A., Koch, P.L. Plio-Pleistocene decline of African megaherbivores: no evidence for ancient hominin impacts. *Science* 362: 938-941.

[15] Blondel, C., **Rowan, J.**, Merceron, G., Bibi, F., *Negash, E., Barr, W.A., Boisserie, J.R. Feeding ecology of Tragelaphini (Bovidae) from the Shungura Formation, lower Omo Valley, Ethiopia: contribution of dental wear analyses. *Palaeogeography, Palaeoclimatology, Palaeoecology* 496: 103-120.

[14] Du, A., Robinson, J.R., **Rowan, J.**, *Lazagabaster, I.A., Behrensmeyer, A.K. Stable carbon isotopes from paleosol carbonate and herbivore enamel document differing paleovegetation signals in the eastern African Plio-Pleistocene. *Review of Palaeobotany and Palynology* 261: 41-52.

[13] *Lazagabaster, I.A., Souron, A., **Rowan, J.**, Robinson, J.R., Campisano, C.J., Reed, K.E. Fossil Suidae (Mammalia, Artiodactyla) from Lee Adoyta, Ledi-Geraru, lower Awash Valley, Ethiopia: implications for late Pliocene turnover and paleoecology. *Palaeogeography, Palaeoclimatology, Palaeoecology* 504: 186-200.

2017

[12] **Rowan, J.**, *Locke, E.M., Robinson, J.R., Campisano, C.J., Wynn, J.G., Reed, K.E. Fossil Giraffidae (Mammalia, Artiodactyla) from Lee Adoyta, Ledi-Geraru, and late Pliocene dietary evolution in giraffids from the lower Awash Valley, Ethiopia. *Journal of Mammalian Evolution* 24: 1-13.

[11] Robinson, J.R., **Rowan, J.**, Campisano, C.J., Wynn, J.G., Reed, K.E. Late Pliocene environmental change during the transition from *Australopithecus* to *Homo*. *Nature Ecology and Evolution* 1: 0159.

[10] Bibi, F., **Rowan, J.**, Reed, K.E. Fossil Bovidae (Mammalia, Artiodactyla) from the late Pliocene of Ledi-Geraru (Afar, Ethiopia). *Journal of Vertebrate Paleontology* 37: e1337639.

[9] Robinson, J.R., **Rowan, J.** Holocene paleoenvironmental change in southeastern Africa (Makwe Rockshelter, Zambia): implications for the spread of pastoralism. *Quaternary Science Reviews* 156: 57-68

2016

[8] **Rowan, J.**, Kamilar, J.M., Beaudrot, L., Reed, K.E. Strong influence of palaeoclimate on the structure of modern African mammal communities. *Proceedings of the Royal Society of London B: Biological Sciences* 283: 1-9.

[7] Robinson, J.R., **Rowan, J.**, Faith, J.T., Fleagle, J.G. Paleoenvironmental change in the late Middle Pleistocene-Holocene Kibish Formation, southern Ethiopia: evidence from ungulate isotopic ecology. *Palaeogeography, Palaeoclimatology, Palaeoecology* 450: 50-59.

[6] *Lazagabaster, I.A., **Rowan, J.**, Kamilar, J.M., Reed, K.E. Evolution of craniodental correlates of diet in African Bovidae. *Journal of Mammalian Evolution* 23: 385-396.

2015

[5] **Rowan, J.**, Faith, J.T., *Gebru, Y., Fleagle, J.G. Taxonomy and paleoecology of fossil Bovidae (Mammalia, Artiodactyla) from the Kibish Formation, southern Ethiopia: implications for dietary change, biogeography, and the structure of living bovid faunas of East Africa. *Palaeogeography, Palaeoclimatology, Palaeoecology* 420: 210-222.

[4] **Rowan, J.**, Adrian, B., Grossman, A. The first skull of *Sivameryx africanus* (Anthracotheriidae, Bothriodontinae) from the early Miocene of East Africa. *Journal of Vertebrate Paleontology* 35: e928305.

[3] DiMaggio, E.N., Campisano, C.J., **Rowan, J.**, Dupont-Nivet, G., Deino, A.L., Bibi, F., Lewis, M.E., Souron, A., *Garello, D., Werdelin, L. Reed, K.E., Arrowsmith, J.R. Late Pliocene fossiliferous sedimentary record and the environmental context of early *Homo* from Afar, Ethiopia. *Science* 347: 1352-1355.

[2] Villmoare, B., Kimbel, W.H., *Seyoum, C., Campisano, C.J., DiMaggio, E.N., **Rowan, J.**, Braun, D.R., Arrowsmith, J.R., Reed, K.E. Early *Homo* at 2.8 Ma from Ledi-Geraru, Afar, Ethiopia. *Science* 347: 1355-1359.

2014

[1] **Rowan, J.**, Reed, K.E. The paleoclimatic record and Plio-Pleistocene paleoenvironments. In: W. Henke and I. Tattersall (eds) *Handbook of Paleoanthropology*, pp-465-491. Springer.

Other Publications (*student author)

2021

[9] Du, A., **Rowan, J.**, Wang, S.C., Wood, B.A., Alemseged, Z. On the fossil recovery potential in the *Australopithecus anamensis-afarensis* lineage: reply to Žliobaitė (2020). *Journal of Human Evolution* 157:103025.

2020

[8] Faith, J.T., **Rowan, J.**, Du, A. Fifty gazelles do not equal an elephant, and other ecological misunderstandings. *Proceedings of the National Academy of Sciences USA*.

2019

[7] *Bell, R., *Fuchs, A., **Rowan, J.**, *Zintel, T., *Dorshorst, T., *Zamora, A. The 88th Annual Meeting of the American Association of Physical Anthropologists in Cleveland, Ohio. *Evolutionary Anthropology* 28: 106-108.

2018

[6] **Rowan, J.** Book review: very short introductions to evolutionary mammalogy. *Evolutionary Anthropology* 27: 247-248.

2017

[5] **Rowan, J.** Africa's mammals may not be able to keep up with the pace of climate change. *The Conversation* (January 18, 2017).

2016

[4] **Rowan, J.** Who are you? (Essay on phylogenetics for “Ask an Anthropologist”, an Institute Human Origins initiative: <https://askananthropologist.asu.edu/stories/early-human-history>)

[3] **Rowan, J.** Historical human habitats. (Essay on paleoecology for “Ask an Anthropologist”, an Institute Human Origins initiative: <https://askananthropologist.asu.edu/stories/historical-human-habitats>)

[2] **Rowan, J.** Changing climates and changing faces. (Essay on paleoclimatic influences on human evolution for “Ask an Anthropologist”, an Institute Human Origins initiative: <https://askananthropologist.asu.edu/stories/changing-climates-and-changing-faces>)

2015

[1] Villmoare, B., Kimbel, W.H., *Seyoum, C., Campisano, C.J., DiMaggio, E.N., **Rowan, J.**, Braun, D.R., Arrowsmith, J.R., Reed, K.E. Response to comment on: “Early *Homo* at 2.8 Ma from Ledi-Geraru, Afar, Ethiopia.” *Science* 348: 1326.

Professional Presentations with Published Abstracts

2020

O’Brien, K., Tryon, C., Blegen, N., **Rowan, J.**, Faith, J. T. First appearance of Grévy's zebra (*Equus grevyi*), Kapthurin Formation, Kenya. 80th Annual Meeting of the Society of Vertebrate Paleontology, Cincinnati, Ohio.

Svenning, J.C., Schowaneck, S.D., Davis, M., Lundgren, E.J., Middleton, O., Pedersen, R.O., **Rowan, J.**, Sandom, C.J. Macroecological perspectives on the functional impacts of late Quaternary megafauna extinctions and potential restoration through trophic rewilding. 2020 Ecological Society of America Meeting (virtual).

Du, A., Friedlander, E., **Rowan, J.**, Alemseged, Z. A. Placing probabilities on whether a fossil taxon was truly absent from a site or has not been found yet. 80th Annual Meeting of the Society of Vertebrate Paleontology, Cincinnati, Ohio.

Bell, R., Reed, K. E., **Rowan, J.**, Beaudrot, L., Kamilar, J. M. How do non-primate competitors affect the potential distribution of frugivorous primates? 98th Meeting of the American Association of Physical Anthropologists, Los Angeles, California.

2019

Rowan, J., Beaudrot, L., Franklin, J., Reed, K.E., Zamora, A., Smail, I.E., Kamilar, J.M. Phylogenetic and functional trait structure of tropical mammal assemblages is shaped by late Quaternary climate change and human impacts. 2019 Annual Meeting of the Society for the Study of Evolution, Providence, Rhode Island.

Rowan, J., Beaudrot, L., Reed, K.E., Zamora, A., Smail, I.E., Kamilar, J.M. Paleoclimatic legacies structure present-day mammal communities in the global tropics. 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, Ohio.

Lundgren, E.J., Ramp, D., **Rowan, J.**, Middleton, O., Schowanek, S., Sandom, C., Scharlemann, J., Davis, M., Svenning, J.C., Wallach, A. Global declines in terrestrial herbivores are functionally offset by introduced species. 29th International Congress for Conservation Biology, Kuala Lumpur, Malaysia.

Seyoum, C., **Rowan, J.**, Reed, K.E., Kimbel, W.H. Bovid paleocommunities and *Australopithecus* environments in the lower Awash Valley, Ethiopia, from ~ 3.8-2.95 Ma. 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, Ohio.

Tsige, Y.G., **Rowan, J.**, Yirga, S., Fleagle, J.G. Paleoenvironmental context of early *Homo sapiens* from the Kibish Formation, southern Ethiopia: evidence from bovid ecomorphology and abundance. 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, Ohio.

2018

Rowan, J., Du, A. Divergent diversification histories of large mammals across two sedimentary basins in eastern Africa over the last 7 Myr. 2018 Annual Meeting of the Paleoanthropology Society, Austin, Texas.

Alemseged, Z., Du, A., **Rowan, J.**, Wood, B.A. Estimating the timing and placing confidence intervals on the origination and extinction of the *Australopithecus anamensis-afarensis* lineage. 2018 Annual Meeting of the Paleoanthropology Society, Austin, Texas.

Faith, J.T., **Rowan, J.**, Du, A. Emergence of the functionally modern ungulate community of eastern Africa. 2018 Annual Meeting of the Paleoanthropology Society, Austin, Texas.

Reed, K.E., Feary, D.A., **Rowan, J.**, Campisano, C.J. Plio-Pleistocene climate proxies and hominin evolution in East Africa. 2018 Annual Meeting of the Paleoanthropology Society, Austin, Texas.

Reed, K.E., **Rowan, J.**, Smail, I.E., Feary, D.A. Reconstructing vegetation and climate from fossil mammals: late Cenozoic ecosystem evolution across 7 Myr of hominin evolution in eastern Africa. 2018 Annual Meeting of the Geological Society of America, Indianapolis, Indiana.

2017

Rowan, J., Smail, I.E., Reed, K.E. Mixed effects of modern climate, Pleistocene climate, and anthropogenic activity on global primate diversity patterns. 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, Louisiana.

Reed, K.E., Smail, I.E., **Rowan, J.**, Robinson, J.R., Locke, E.M., Lazagabaster, I.A., Campisano, C.J. Biogeography, endemism, and functional trait community structure: basal differences during the Pliocene. 86th Annual Meeting of the American Association of Physical Anthropologists, New Orleans, Louisiana.

2016

Rowan, J., Locke, E.M., Robinson, J.R., Campisano, C.J., Wynn, J.G., Reed, K.E. Dietary shifts in the giraffid *Sivatherium* and paleoenvironmental differences between the Afar and Turkana Basins during the late Pliocene. 2016 Annual Meeting of the Paleoanthropology Society, Atlanta, Georgia.

Lazagabaster, I.A., **Rowan, J.**, Garello, D., Campisano, C.J., Arrowsmith, J.R., Reed, K.E. Fossil Artiodactyla (Mammalia) from Markaytoli, a new Middle Pleistocene site in the lower Awash Valley, Ethiopia. 76th Annual Meeting of the Society of Vertebrate Paleontology, Salt Lake City, Utah.

Locke, E.M., **Rowan, J.**, Reed, K.E. Sexual dimorphism in Pliocene *Gazella* (Mammalia, Artiodactyla) from Makapansgat Limeworks Cave, South Africa. 76th Annual Meeting of the Society of Vertebrate Paleontology, Salt Lake City, Utah.

Robinson, J.R., **Rowan, J.**, Campisano, C.J., Wynn, J.G., Reed, K.E. Origins of *Homo* and latest Pliocene expansion of C₄-dominated environments. 2016 Annual Meeting of the Geological Society of America, Denver, Colorado.

2015

Rowan, J., Franklin, J., Reed, K.E. Late Pleistocene biogeography and climatic niche evolution in plains zebra *Equus quagga* and blue wildebeest *Connochaetes taurinus*. 75th Annual Meeting of the Society of Vertebrate Paleontology, Dallas, Texas.

Rowan, J., Reed, K.E., Du, A., Locke, E.M., Smail, I.E., Campisano, C.J., Lazagabaster, I.A. Fossil mammals reveal patterns of inter- and intra- basinal endemism in eastern Africa, ca. 4-1 Ma: implications for hominin biogeography. 2015 Annual Meeting of the Paleoanthropology Society, San Francisco, California.

DiMaggio, E.N., Campisano, C.J., **Rowan, J.**, Dupont-Nivet, G., Deino, A.L., Garello, D., Reed, K.E., Arrowsmith, J.R. Late Pliocene fossiliferous sedimentary record and the environmental context of early *Homo* from Afar, Ethiopia. 2015 Annual Meeting of the Geological Society of America, Baltimore, Maryland.

Du, A., Behrensmeier, A.K., **Rowan, J.**, Davis, M. Comparing taxonomic and functional change through time in terrestrial mammal paleo-communities in Pliocene-Pleistocene East Africa. 100th Annual Meeting of the Ecological Society of America, Washington, D.C.

Lazagabaster, I.A., Kamilar, J.M., Reed, K.E., **Rowan, J.** Tempo and mode of evolution in African ungulate craniodental traits and diet. 75th Annual Meeting of the Society of Vertebrate Paleontology, Dallas, Texas.

Locke, E.M., **Rowan, J.**, Campisano, C.J., Reed, K.E. Fossil Giraffidae (Mammalia, Artiodactyla) from 2.8 Ma sediments at Lee Adoyta, Ledi-Geraru: implications for the paleobiology of *Sivatherium maurusium*. 75th Annual Meeting of the Society of Vertebrate Paleontology, Dallas, Texas.

Reed, K.E., DiMaggio, E.N., Campisano, C.J., **Rowan, J.**, Dupont-Nivet, G., Deino, A., Bibi, F., Lewis, M.E., Souron, A., Werdelin, L., Arrowsmith, J.R., Villmoare, B., Kimbel, W.H., Seyoum, C., Braun, D.R. Paleoanthropology of Ledi-Geraru, Afar Regional State, Ethiopia. 2015 Annual Meeting of the Paleoanthropology Society, San Francisco, California.

2014

Rowan, J., Reed, K.E. Bovidae (Mammalia, Artiodactyla) from the Plio-Pleistocene Busidima Formation of Hadar, Afar Regional State, Ethiopia, and the evolution, paleoecology, and biogeography of bovid faunas at Hadar ca. 3.4-2.3 Ma. 74th Annual Meeting of the Society of Vertebrate Paleontology, Berlin, Germany.

Reed, K.E., **Rowan, J.**, Kamilar, J.M. African vegetation structure: modern analogs and hominin habitat reconstructions. 83rd Annual Meeting of the American Association of Physical Anthropologists, Calgary, Alberta.

2013

Rowan, J., Reed, K.E. Endemism and dispersal in East African Bovidae from the late Miocene through the Recent. 73rd Annual Meeting of the Society of Vertebrate Paleontology, Los Angeles, California.

Other Scholarly Presentations

2019

Rowan, J., Kamilar, J.M. The past, present, and future of human-environment interactions: the view from deep time. 50th Anniversary Engaging Anthropology Conference, University of Massachusetts Amherst, Amherst, Massachusetts.

Rowan, J., Reed, K. E., Beaudrot, L., Smail, I. E., Kamilar, J.M. A 27-Myr record of large mammal community turnover during ape and human evolution in eastern Africa. 5th Annual Northeastern Evolutionary Primatologists Meeting. Amherst, Massachusetts.

Bell, R., **Rowan, J.**, Reed, K. E., Kamilar, J. M. How do non-primate competitors affect the potential distribution of frugivorous primates? 5th Annual Northeastern Evolutionary Primatologists Meeting. Amherst, Massachusetts.

2017

Rowan, J. Primary productivity modulates trait-based assembly across African mammal communities. 2017 Southwestern Association of Biological Anthropologists Conference, San Diego, California.

Lazagabaster, I.A., **Rowan, J.** Human dietary flexibility in a comparative context: global macroecology of generalist and omnivorous mammals. 2017 Southwestern Association of Biological Anthropologists Conference, San Diego, California.

Seyoum, C., **Rowan, J.**, Kimbel, W.H. Climate change and the origin of hominin isotopic dietary niche breadth. 2017 Southwestern Association of Biological Anthropologists Conference, San Diego, California.

2016

Rowan, J., Smail, I.E., Reed, K.E. Learning from the past: late Quaternary climate change and the future of African primate diversity. 2016 Southwestern Association of Biological Anthropologists Conference, Tempe, Arizona.

2015

Rowan, J., Reed, K.E., Du, A., Locke, E.M., Smail, I.E., Campisano, C.J., Lazagabaster, I.A. Fossil mammals reveal inter- and intra- patterns of basinal endemism in eastern Africa, ca. 4-1 Ma: implications for hominin biogeography. 2015 Southwestern Association of Biological Anthropologists Conference, Albuquerque, New Mexico.

2014

Rowan, J., Faith, J.T., Gebru, Y., Fleagle, J.G. Patterns of late Quaternary East African biogeography based on fossil Bovidae from the Kibish Formation, southern Ethiopia: implications for modern human dispersals. 2014 Southwestern Association of Biological Anthropologists Conference, Tucson, Arizona.

Lazagabaster, I.A., **Rowan, J.**, Bobe, R. Fidelity of paleoecological data based on bovid, equid, and suid abundance at different spatial scales in the Okote Member of the Koobi Fora Formation, Kenya. 2014 Southwestern Association of Biological Anthropologists Conference, Tucson, Arizona.

2013

Rowan, J., Reed, K.E. A preliminary report on the Bovidae (Mammalia, Artiodactyla) from the Plio-Pleistocene Busidima Formation of Hadar, Ethiopia, and the paleoenvironment of early *Homo*. 2013 Southwestern Association of Biological Anthropologists Conference, Tempe, Arizona.

Invited Seminars

2021

“Did ancient hominins cause extinctions?”
Case Western Reserve University (Cleveland, OH)

2020

“African paleoecology and human evolution”
Yale University (New Haven, CT)

2019

“Evolution and ecology of early African hominins: fieldwork, fossils, and big data”
University at Albany (Albany, New York)

“Reconstructing ancient climates and environments from fossil mammals”
Boston University (Boston, Massachusetts)

“Deep time perspectives on the past, present, and future of large mammal biodiversity”

Stony Brook University (Stony Brook, New York)

“Ancient ecological perspectives on what it means to be human”
University at Buffalo (Buffalo, New York)

“The past is key to the present: deep time perspectives on mammalian diversity”
University of Massachusetts Amherst (Amherst, Massachusetts)

2018

“Ecology and evolution of early African hominins: large mammals as a model system”
George Washington University (Washington, D.C.)

“Abiotic and biotic drivers of late Cenozoic community evolution in African mammals”
Stony Brook University (Stony Brook, New York)

Symposia Chaired

2019 “The emergence of worlds: past, present, and future”
50th Anniversary Engaging Anthropology Conference,
University of Massachusetts Amherst (Amherst, Massachusetts)

Honors and Awards

2019 Nominee, Cozzarelli Prize
National Academy of Sciences (*PNAS* award)

2016 Conference Travel Grant (\$250)
Paleoanthropology Society

2015 Jackson School of Geosciences Student Travel Grant (\$400)
Society of Vertebrate Paleontology

2015 Research Travel Grant (\$700)
Institute of Human Origins

2015 Morris Award for Outstanding Ph.D. Student (\$300)
Arizona State University

2014 Research Travel Grant (\$500)
Institute of Human Origins

2014 William S. Pollitzer Student Travel Grant (\$500)
American Association of Physical Anthropologists

2013 Graduate Research Fellowship, Honorable Mention
National Science Foundation

Courses Taught

- 2021 Instructor
AANT 416: “Human Paleobiology”
University at Albany
- 2021 Instructor
AANT 409: “Primate Evolutionary Biology”
- 2021 Instructor
AANT 110: “Introduction to Human Evolution”
University at Albany
- 2021 Instructor
AANT 502: “Proseminar in Biological Anthropology”
University at Albany
- 2021 Instructor
“Vertebrate Evolution and Paleontology”
Turkana University College/Turkana Basin Institute
- 2020 Instructor
OEB 597: “Evolution of Life on Earth”
University of Massachusetts Amherst
- 2020 Instructor
OEB 312: “Writing in Biology”
University of Massachusetts Amherst
- 2019 Instructor
OEB 697: “Proseminar in Organismic and Evolutionary Biology”
University of Massachusetts Amherst
- 2014 Teaching Assistant and Course Developer
ASM 104: “Stones, Bones, and Human Evolution”
Arizona State University
- 2013 Teaching Assistant and Course Developer
ASM 104: “Stones, Bones, and Human Evolution”
Arizona State University
- 2012 Instructor
“Vertebrate Paleontology and Evolution”
Koobi Fora Field School Kenya (Rutgers and George Washington University)

Workshops Taught

- 2019 “Analyzing and Visualizing Biodiversity in Space and Time (in R)”
Interdepartmental Graduate Programs in the Life Sciences

University of Massachusetts Amherst

Graduate Advisees

- In Progress Sara Magee, Ph.D. student in Anthropology
University at Albany, Albany, NY
- In Progress Christianne Ormsby, Ph.D. student in Anthropology
University at Albany, Albany, NY
- In Progress Linet Sankau, M.Sc. student in Human Evolutionary Biology
Turkana University College, Turkana, Kenya

Undergraduate Advisees

- 2018 Xavier Jenkins, Arizona State University (undergraduate research)
“Archosaur macroecology and biochronology in the Triassic of North America”
- 2017 Alexandra Norwood, Arizona State University (undergraduate research)
“GIS-based paleoclimate reconstruction of Geelwal Karoo, South Africa”
(current University of Michigan Ph.D. student)
- 2016 Alexandra Fappiano, Arizona State University (undergraduate research)
“Bioclimatic envelopes and mammal species distribution modeling”
- 2014 Angela Peña, Arizona State University (undergraduate research)
“Plio-Pleistocene large mammal communities of eastern Africa”
(former George Washington University Ph.D. student)

Fieldwork

- 2016 Omo Group Research Expedition (lower Omo Valley, Ethiopia)
- 2013, 2015 Ledi-Geraru Research Project (lower Awash Valley, Ethiopia)
- 2012 Koobi Fora Field School (East Turkana, Kenya)

International Museum Work

- 2012-Present National Museum of Ethiopia (Addis Ababa, Ethiopia)
- 2012-Present National Museums of Kenya (Nairobi, Kenya)
- 2014 Evolutionary Studies Institute, University of the Witwatersrand
(Johannesburg, South Africa)

Media Coverage Examples

Interviewed on research by several media outlets, including *The New York Times*, *BBC*, *The Guardian*, *Wall Street Journal*, *Popular Science*, *Newsweek*, and *the Huffington Post*.

“Pablo Escobar’s hippos fill a hole left since Ice Age extinctions”

New York Times (2020)

<https://www.nytimes.com/2020/03/26/science/pablo-escobar-hippos.html>

“Pablo Escobar’s ‘cocaine hippos’ show how invasive species can restore a lost world”

The Guardian (2020)

<https://www.theguardian.com/environment/2020/mar/24/pablo-escobars-cocaine-hippos-show-how-invasive-species-can-restore-a-lost-world-aoe>

“Pablo Escobar’s invasive hippos could actually be good for the environment”

Popular Science (2020)

<https://www.popsci.com/story/animals/escobars-invasive-hippos/>

“The functional uniqueness of ancient megafauna”

Current Biology Dispatch by Robert M. Pringle (2020)

<https://doi.org/10.1016/j.cub.2019.11.017>

“Present-day drivers do not explain biodiversity patterns in mammals”

PNAS Commentary by Richard T. Corlett (2020)

<https://www.pnas.org/content/early/2020/01/02/1921257117>

“Connecting the prehistoric past to the global future”

National Science Foundation (2020)

https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=299788&org=NSF&from=news

“New research finds the ‘ancient past’ matters as much as present climate and human impacts in explaining global biodiversity patterns”

University of Massachusetts Amherst (2019)

<https://www.umass.edu/newsoffice/article/new-research-finds-‘ancient-past’-matters>

“Humans ‘off the hook’ for African mammal extinction”

BBC News (2018)

<https://www.bbc.com/news/science-environment-46306622>

“Environmental change, not humans, caused extinction of large ancient mammals”

US News & World Report (2018)

<https://www.usnews.com/news/world/articles/2018-11-22/study-environmental-change-not-humans-caused-extinction-of-large-ancient-mammals>

“First humans emerged in Africa 2.8 million years ago during sudden climate change”

International Business Times (2017)

<http://www.ibtimes.co.uk/first-humans-emerged-africa-2-8-million-years-ago-during-sudden-climate-change-1621867>

“Past climate linked to mammal communities today”

University of Michigan News (2016)

<http://ns.umich.edu/new/releases/24245-past-climate-linked-to-mammal-communities-in-africa-today>

“Oldest *Homo* fossil found”

Nature (2015)

<https://www.nature.com/articles/519132c>

“First human discovered in Ethiopia”

BBC News (2015)

<http://www.bbc.com/news/science-environment-31718336>

“Oldest Human Fossil Found, Redrawing Family Tree”

National Geographic (2015)

<https://news.nationalgeographic.com/news/2015/03/150304-homo-habilis-evolution-fossil-jaw-ethiopia-olduvai-gorge/>

“Jawbone fossil fills a gap in early human evolution”

New York Times (2015)

<https://www.nytimes.com/2015/03/05/world/jawbones-discovery-fills-barren-evolutionary-period.html>

Professional Service and Outreach

Journal Peer-Review (n = 29 manuscripts total)

Acta Geologica Sinica (1), *Acta Palaeontologica Polonica* (1), *Alcheringa* (1), *Ecography* (1), *eLife* (1), *Evolutionary Anthropology* (1), *Global Change Biology* (1), *Global Ecology and Biogeography* (1), *Historical Biology* (1), *Journal of African Earth Sciences* (1), *Journal of Archaeological Sciences* (1), *Journal of Human Evolution* (2), *Journal of Mammalian Evolution* (1), *Journal of Quaternary Science* (1), *Journal of Vertebrate Paleontology* (3), *Nature Scientific Reports* (1), *Paleobiology* (1), *Palaeontologia Africana* (1), *Palaeontologia Electronica* (2), *PNAS* (2), *Proceedings B* (1), *Quaternary International* (1), *Quaternary Research* (1), *Royal Society Open Science* (1), *Science* (1).

2021-Present SVP Annual Meeting Program Committee
Society of Vertebrate Paleontology

2020-Present Human Evolutionary Biology (M.Sc.) Program Committee
Turkana University College and Turkana Basin Institute (Kenya)

2020-Present Regional Coordinator, Africa (5-year term)
NOW (New and Old Worlds) Fossil Mammal Database
<https://nowdatabase.org/now/board/>

2021 Book Chapter Review for P. J. Constantino, K. E. Reed, B. A. Wood (eds) *The Forgotten Lineage(s): Paleobiology of Paranthropus*. Springer.

- 2021 Accepted Student Open House
University at Albany
- 2021 Leakey Foundation Proposal Review (x 2)
- 2020 Fall Preview Day for Prospective Undergraduate Students
University at Albany
- 2020 COVID-19 Surveillance Testing (Saliva Test Kit Assembly)
University at Albany
- 2020 “Paleontology: New Insights from Old Bones”
Life Science Café, University of Massachusetts Amherst
- 2020 Scientific Committee, 2nd Annual Paleontological Virtual Congress
- 2020 National Science Foundation Proposal Review (Archaeology)
- 2019 National Science Foundation Proposal Review (Earth Sciences)
- 2019 ‘Lives of Scientists’ Project (Shutesbury Elementary School, Amherst, MA)
- 2012-18 Member of the Institute of Human Origins Outreach Team
Arizona State University
- 2017 “Human evolution: the fossil evidence”
Arizona Museum of Natural History (Mesa, Arizona)
- 2017 Invited Speaker, “First Year Professionalism” for Ph.D. Students
Arizona State University
- 2015-16 Chief Editor (12 publications total) for “Ask an Anthropologist”, a Institute of
Human Origins website aimed at K-12 science education
Arizona State University
- 2015 Panelist, “Am I an Academic?” Symposium
Stockton University
- 2014 Scientific Consultant, “The Great Human Race” Documentary
National Geographic
- 2014 “New perspectives on human origins and evolution”
Arizona Science Café (Chandler, Arizona)
- 2012-17 “Night of the Open Door” Campus Open House
Arizona State University

2012-15 Co-Director of the Institute of Human Origins Journal Club
Arizona State University

2011 “How we know what we think we know about dinosaur paleobiology”
Rotary Club Speaker Series (Manahawkin, New Jersey)

Professional Affiliations

American Association of Biological Anthropologists

Turkana Basin Institute, Research Affiliate

National Museums of Kenya, Research Affiliate

Paleoanthropology Society

Society of Vertebrate Paleontology