

John Rowan

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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

PROFESSIONAL APPOINTMENTS

- 2020- Assistant Professor, Department of Anthropology
 University at Albany, State University of New York
- 2020- Adjunct Lecturer, Department of Biological and Physical Sciences
 Turkana University College (Kenya)
- 2019-2020 Darwin Postdoctoral Fellow, Organismic and Evolutionary Biology
 University of Massachusetts Amherst
- 2018-2020 Postdoctoral Fellow, Department of Anthropology
 University of Massachusetts Amherst

PUBLICATIONS

Referred Articles

Accepted or in-press

[39] Barr, W. A., Pobiner, B., **Rowan, J.**, Du, A., Faith, J. T. No sustained increase in archaeological evidence for carnivory after appearance of *Homo erectus*. *Proceedings of the National Academy of Sciences USA*.

[38] 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 Paleocology and Human Evolution* (chapter in forthcoming book by Cambridge University Press).

[37] **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* (chapter in forthcoming book by Springer).

[36] Žliobaitė, I., Fortelius, M., Bernor, R. L., van den Hoek Ostende, L. W., Janis, C., Lintulaakso, K., Säilä, L. K., Werdelin, L. W., Casanovas-Vilar, I., Croft, D., Flynn, L., Hopkins, S., Kaakinen, A., Kordos, L., Kostopoulos, D. S., Pandolfi, L., **Rowan, J.**, Tesakov, A., Vislobokova, I., Zhaoqun, Z., Aiglstorfer, M., Alba, D. M., Arnal, M., Antoine, P. O., Belmaker, M., Bilgin, M., Boisserie, J. R., Borths, M., Cooke, S. B., van Dam, J., Delson, E., Eronen, J., Fox, D., Friscia, A., Furió, M., Giaourtsakis, I. X., Holbrook, L., Hunter, J., López-Torres, S., Ludtke, J. Minwer-Barakat, R., van der Made, J., Mennecart, B., Pushkina, D., Rook, L., Saarinen, J., Samuels, J. X., Sanders, W., Silcox, M. The NOW database of fossil mammals. In: I. Casanovas Vilar, C. Janis, J. Saarinen, L. van der Hoek Ostende. (eds) *Evolution of Cenozoic Land Mammal Faunas and Ecosystems: 25 Years of the NOW Database of Fossil Mammals* (chapter in forthcoming book by Springer).

2021

[35] Blondel, C., Merceron, G., **Rowan, J.**, Surault, J., Boisserie, J. R. Dietary ecology of Reduncini (Bovidae) from the Shungura Formation, lower Omo Valley, Ethiopia. *Palaeogeography, Palaeoclimatology, Palaeoecology*. Journal Pre-Proof. DOI: <https://doi.org/10.1016/j.palaeo.2021.110789>

[34] 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. DOI: <https://doi.org/10.1016/j.jhevol.2021.103025>

[33] 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. DOI: <https://doi.org/10.1016/j.tree.2021.04.011>

[32] 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. DOI: <https://doi.org/10.1038/s41597-020-00788-5>

[31] 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. DOI: <https://doi.org/10.1016/j.quascirev.2021.106835>

[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. DOI: <https://doi.org/10.1038/s41559-021-01455-7>

[29] Schowanek*, S. D., Davis, M., Lundgren*, E. J., Middleton*, O., **Rowan, J.**, Pedersen, R. O., Ramp, D., Sandom, C. J., Svenning, J. C. Reintroducing extirpated herbivores could partially reverse the late Quaternary decline of large and grazing species. *Global Ecology and Biogeography* 30: 896-908. DOI: <https://doi.org/10.1111/geb.13264>

2020

[28] 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* 117: 3370-3373. DOI: <https://doi.org/10.1073/pnas.1920565117>

[27] 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. DOI: <https://doi.org/10.1080/02724634.2020.1841781>

[26] 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. DOI: <https://doi.org/10.1017/qua.2020.51>

[25] 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. DOI: <https://doi.org/10.1073/pnas.1915769117>

[24] **Rowan, J.**, Beaudrot, L., Franklin, J., Reed, K.E., Zamora*, A., Smail*, I. E., Kamlar, 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. DOI: <https://doi.org/10.1073/pnas.1910489116>

[23] 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. DOI: <https://doi.org/10.1098/rstb.2019.0125>

2019

[22] Du, A., **Rowan, J.**, Wang, S. C., Wood, B. A., Alemseged, Z. Statistical estimates of hominin origination and extinction dates: A case study examining the *Australopithecus anamensis-afarensis* lineage. *Journal of Human Evolution* 138: 102688. DOI: <https://doi.org/10.1016/j.jhevol.2019.102688>

[21] Faith, J. T., Du, A., **Rowan, J.** Addressing the effects of sampling on ecometric-based paleoenvironmental reconstructions. *Palaeogeography, Palaeoclimatology, Palaeoecology* 528: 175-185. DOI: <https://doi.org/10.1016/j.palaeo.2019.05.006>

[20] 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. DOI: <https://doi.org/10.1073/pnas.1909284116>

[19] **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). DOI: https://doi.org/10.1007/978-3-030-25865-8_3

2018

[18] 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. DOI: <https://doi.org/10.1016/j.palaeo.2018.01.027>

[17] 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. DOI: <https://doi.org/10.1016/j.revpalbo.2018.11.003>

[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. DOI: <https://doi.org/10.1126/science.aau2728>

[15] 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. DOI: <https://doi.org/10.1016/j.palaeo.2018.05.029>

[14] **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. DOI: <https://doi.org/10.1080/08912963.2017.1423485>

2017

[13] 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. DOI: <https://doi.org/10.1080/02724634.2017.1337639>

[12] 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. DOI: <https://doi.org/10.1016/j.quascirev.2016.11.030>

[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. DOI: <https://doi.org/10.1038/s41559-017-0159>

[10] **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. DOI: <https://doi.org/10.1007/s10914-016-9343-z>

2016

[9] 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. DOI: <https://doi.org/10.1007/s10914-016-9329-x>

[8] 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. DOI: <https://doi.org/10.1016/j.palaeo.2016.02.049>

[7] **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. DOI: <https://doi.org/10.1098/rspb.2016.1207>

2015

[6] 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. DOI: <https://doi.org/10.1126/science.aaa1415>

[5] **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. DOI: <https://doi.org/10.1080/02724634.2014.928305>

[4] **Rowan, J.**, Faith, J. T., Gebu*, 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. DOI: <https://doi.org/10.1016/j.palaeo.2014.12.017>

[3] 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. DOI: <https://doi.org/10.1126/science.aaa1343>

[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. Response to comment on: "Early *Homo* at 2.8 Ma from Ledi-Geraru, Afar, Ethiopia." *Science* 348: 1326. DOI: <https://doi.org/10.1126/science.aab1122>

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. DOI: https://doi.org/10.1007/978-3-642-39979-4_75

Book Reviews, Reports, and News

2021

Rowan, J., Edome Akwee, P., Feibel, C., Harmand, S., Henkes, G., Hildebrand, E., Lewis, J., Princehouse, P., Taylor, N., Nengo, I. Raising up African Paleoanthropologists: An Innovative Master's Program at Turkana University College, Kenya. *Evolutionary Anthropology*.

2019

Bell*, R., Fuchs*, A., **Rowan, J.**, Zintel*, T., Dorshorst*, Zamora*, A. The 88th Annual Meeting of the American Association of Physical Anthropologists in Cleveland, Ohio. *Evolutionary Anthropology* 28: 106-108. DOI: <https://doi.org/10.1002/evan.21780>

2018

Rowan, J. Very short introductions to evolutionary mammalogy. *Evolutionary Anthropology* 27: 247-248. DOI: <https://doi.org/10.1002/evan.21717>

Popular Science Publications

2017

Rowan, J. Africa's mammals may not be able to keep up with the pace of climate change. *The Conversation* (January 18, 2017). Link: <https://theconversation.com/africas-mammals-may-not-be-able-to-keep-up-with-the-pace-of-climate-change-70427>

2016

Rowan, J. Who are you? (Essay on phylogenetics for "Ask an Anthropologist", an Institute of Human Origins initiative). Link: <https://askananthropologist.asu.edu/stories/early-human-history>

Rowan, J. Historical human habitats. (Essay on paleoecology for "Ask an Anthropologist", an Institute of Human Origins initiative). Link: <https://askananthropologist.asu.edu/stories/historical-human-habitats>

Rowan, J. Changing climates and changing faces. (Essay on paleoclimatic influences on human evolution for "Ask an Anthropologist", an Institute of Human Origins initiative). Link: <https://askananthropologist.asu.edu/stories/changing-climates-and-changing-faces>

GRANT FUNDING AND FELLOWSHIPS

2021-2024 'Lothagam: Hominin origins and faunal turnover in the late Miocene' **\$158,235**
\$158,235 Turkana Basin Institute (co-PI: Isaiah Nengo, Stony Brook University)

2021-2024 'Did an increasingly carnivorous *Homo erectus* cause Pleistocene mammal extinctions?' (Award Number: 2039759)
\$90,099 National Science Foundation (co-PIs: W.A. Barr, George Washington University; A. Du, Colorado State University; K. Chritz, University of British Columbia)

2019-2022 'Multiproxy paleoecology of ~ 2.35 Ma early *Homo* from Ethiopia'
\$13,996 Leakey Foundation (co-PIs: J. Robinson, Boston University; I. A. Lazagabaster, Museum für Naturkunde Berlin)

2017 Dissertation Completion Award

- \$22,400 Arizona State University
- 2016 Graduate Research Grant
\$1,944 Arizona State University
- 2014 Graduate Research Fellowship
\$138,000 National Science Foundation
- 2012 Multi-year Graduate Fellowship
\$134,064 Arizona State University
- 2011 Board of Trustees Fellowship for Distinguished Students
\$1,000 Stockton University

CONFERENCE PRESENTATIONS

2022

Barr, W. A., Pobiner, B., **Rowan, J.**, Du, A., Faith, J. T. The zooarchaeological record does not show a sustained increase in carnivory after the appearance of *Homo erectus*. 8th Meeting of the Eastern African Association of Paleoanthropology and Paleontology, Arusha, Kenya.

Nengo, I., Feibel, C. S., Harmand, S., Henkes, G., Hildebrand, E., Lewis, J., **Rowan, J.**, Taylor, N., Princehouse, P. Raising up African Paleoanthropologists: An Innovative Masters Program at Turkana University College, Kenya. 8th Meeting of the Eastern African Association of Paleoanthropology and Paleontology, Arusha, Kenya.

Fuchs*, A.J., Bell*, R. B., Kunaparaju*, A., **Rowan, J.**, Beaudrot, L., Reed, K. E., Kamilar, J. M. Using ecological niche modeling to assess how frugivorous non-primate mammals impact frugivorous primate distributions on a global scale. 91st Meeting of the American Association of Biological Anthropologists, Denver, Colorado.

O'Brien*, K. O., Du, A., **Rowan, J.**, Faith, J. T. Testing whether changes to local alpha or beta diversity drove the Early Pleistocene decline in eastern African large carnivoran richness. 8th Meeting of the Eastern African Association of Paleoanthropology and Paleontology, Arusha, Kenya.

Robinson, J. R., **Rowan, J.**, Barr, W. A., Sponheimer, M. Linking mammalian herbivore diets and (paleo)environments: implications for hominin paleoecology. 91st Meeting of the American Association of Biological Anthropologists, Denver, Colorado.

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., Schowanek*, 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? 89th 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: basinal 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., Behrensmeyer, 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 PRESENTATIONS

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)

INTERNATIONAL LAB AND FIELD PROJECTS

2016- Omo Group Research Expedition (lower Omo Valley, Ethiopia)

2014 Evolutionary Studies Institute (Johannesburg, South Africa)

2013- Ledi-Geraru Research Project (Afar, Ethiopia)

2012- National Museum of Ethiopia (Addis Ababa, Ethiopia)

2012- National Museums of Kenya (Nairobi, Kenya)

2012 Koobi Fora (East Turkana, Kenya)

TEACHING

2022 Instructor
AANT 416: “Human Paleobiology”
University at Albany, State University of New York

2022 Instructor

- AANT 110: “Introduction to Human Evolution”
University at Albany, State University of New York
- 2021 Instructor
AANT 416: “Human Paleobiology”
University at Albany, State University of New York
- 2021 Instructor
AANT 409: “Primate Evolutionary Biology”
University at Albany, State University of New York
- 2021 Instructor
AANT 110: “Introduction to Human Evolution”
University at Albany, State University of New York
- 2021 Instructor
AANT 502: “Proseminar in Biological Anthropology”
University at Albany, State University of New York
- 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

STUDENT ADVISEES

Graduate

2021- Sara Magee, Ph.D. student in Anthropology
University at Albany, State University of New York
“Putting the dead to work: Ecological consequences of near-time extinctions to guide the future of Malagasy biodiversity”

2021- Christianne Ormsby, Ph.D. student in Anthropology
University at Albany, State University of New York
“Evolution of Miocene carnivore guilds in eastern Africa and implications for primate evolution”

2021- Linet Sankau, M.Sc. student in Human Evolutionary Biology
Turkana University College, Turkana, Kenya
“Stable isotope analysis of bovid dietary niche partitioning in the late Miocene of Lothagam (West Turkana, Kenya)”

Undergraduate

2018 Xavier Jenkins
Arizona State University
“Archosaur macroecology and biochronology in the Triassic of North America”
(Current Idaho State University Ph.D. student)

2017 Alexandra Norwood, Arizona State University
Arizona State University
“GIS-based paleoclimate reconstruction of Geelwal Karoo, South Africa”
(Current University of Michigan Ph.D. student)

2016 Alexandra Fappiano
Arizona State University
“Bioclimatic envelopes and mammal species distribution modeling”

2014 Angela Peña
Arizona State University
“Plio-Pleistocene large mammal communities of eastern Africa”
(Former George Washington University Ph.D. student)

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>

SERVICE

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- Undergraduate Affairs Committee (Department of Anthropology)
University at Albany, State University of New York

2021 Accepted Student Open House
University at Albany, State University of New York

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

2021 Leakey Foundation Proposal Review (Two proposals reviewed)

2021 SVP Annual Meeting Program Committee

- Society of Vertebrate Paleontology
- 2020 Fall Preview Day for Prospective Undergraduate Students
University at Albany, State University of New York
- 2020 COVID-19 Surveillance Testing (Saliva Test Kit Assembly)
University at Albany, State University of New York
- 2020- Human Evolutionary Biology (M.Sc.) Program Committee
Turkana University College and Turkana Basin Institute (Kenya)
- 2020- Regional Coordinator, Africa (5-year term)
NOW (New and Old Worlds) Fossil Mammal Database
<https://nowdatabase.org/now/board/>
- 2020 Scientific Committee, 2nd Annual Paleontological Virtual Congress
- 2020 National Science Foundation Proposal Review (Archaeology)
- 2020 “Paleontology: New Insights from Old Bones”
Life Science Café, University of Massachusetts Amherst
- 2019 National Science Foundation Proposal Review (Earth Sciences)
- 2019 ‘Lives of Scientists’ Project (Shutesbury Elementary School, Amherst, MA)
- 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”, an 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)
- 2012-18 Member of the Institute of Human Origins Outreach Team

Arizona State University

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)

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

PROFESSIONAL AFFILIATIONS

American Association of Biological Anthropologists

National Museums of Kenya (Research Affiliate)

Paleoanthropology Society

Society of Vertebrate Paleontology

Turkana Basin Institute (Research Affiliate)