

John Rowan

Assistant Professor

Department of Anthropology, University at Albany

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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

EDUCATIONAL EMPLOYMENT

- 2020- Assistant Professor, Department of Anthropology
University at Albany
- 2019-2020 Darwin Postdoctoral Fellow, Organismic and Evolutionary Biology
University of Massachusetts Amherst
- 2018-2020 Postdoctoral Fellow, Department of Anthropology
University of Massachusetts Amherst

PROFESSIONAL APPOINTMENTS

- 2022- UAlbany Director for the *Origins Field School* (Kenya Study Abroad)
Turkana Basin Institute and University at Albany
- 2020- Lecturer, Department of Biological and Physical Sciences
Turkana University College (Kenya)

PUBLICATIONS

Refereed Articles (*student author)

In revision

Du, A., Friedlander, E., **Rowan, J.**, Alemseged, Z. Placing probabilities on a taxon's true absence: applications to the hominin genus *Paranthropus*. *Paleobiology*.

Accepted or in-press

[43] **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).

[42] Žliobaitė, I., Fortelius, M., Bernor, R. L., van den Hoek Ostende, L. W., Janis, C., Lintulaakso, K., Sällä, 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).

2022

[41] 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 Paleogeography and Human Evolution*, pp, 214-228. Cambridge University Press. DOI: <https://doi.org/10.1017/9781139696470.018>

[40] 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* 119: e2115540119. DOI: <https://doi.org/10.1073/pnas.2115540119>

[39] Cohen, A. S., Du, A., **Rowan, J.**, Yost, C. L., Billingsley, A. L., Campisano, C. J., Brown, E. T., Deino, A. L., Feibel, C. S., Grant, K., Kingston, J. D., Lupien, R. L., Muiruri, V., Owen, R. B., Reed, K. E., Russell, J., Stockhecke, M. Plio-Pleistocene environmental variability in Africa and its implications for mammalian evolution. *Proceedings of the National Academy of Sciences USA* 119: e2107393119. DOI: <https://doi.org/10.1073/pnas.2107393119>

[38] Fricke, E. C., Hsieh*, C., Middleton, O., Gorczynski*, D., Cappello, C. D., Sanisidro, O., **Rowan, J.**, Svenning, J. C., Beaudrot, L. Collapse of terrestrial mammal food webs since the Late Pleistocene. *Science* 377:1008-1011. DOI: <https://doi.org/10.1126/science.abn4012>

[37] Patterson, D. B., Du, A., Faith, J. T., **Rowan, J.**, Uno, K., Behrensmeyer, A. K., Braun, D. R., Wood, B. A. Did vegetation change drive the extinction of *Paranthropus boisei*? *Journal of Human Evolution*. DOI: <https://doi.org/10.1016/j.jhevol.2022.103154>

[36] **Rowan, J.**, Lazagabaster, I. A., Campisano, C. J., Bibi, F., Bobe, R., Boisserie, J. R., Frost, S. R., Getachew*, T., Gilbert, C. G., Lewis, M. E., Melaku*, S., Scott, E., Souron, A., Werdelin, L., Kimbel, W. H., Reed, K. E. Early Pleistocene large mammals from Maka'amitalu, Hadar, lower Awash Valley, Ethiopia. *PeerJ* 10: e13210. DOI: <https://doi.org/10.7717/peerj.13210>

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* 587:110789. 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., 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. 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., Behrensmeier, 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* (Anthrotheriidae, 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., 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. 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

2022

Rowan, J., Princehouse, P., Kinyanjui, R., Uno, K. T. Isaiah Odhiambo Nengo (1961-2022). *Nature Ecology and Evolution* 6: 659. DOI: <https://doi.org/10.1038/s41559-022-01741-y>

Rowan, J. Only in Africa: The Ecology of Human Evolution (book review). *Quarterly Review of Biology* 97: 223-224. DOI: <https://doi.org/10.1086/721499>

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* 31: 2-4. DOI: <https://doi.org/10.1002/evan.21933>

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 (book review). *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

Not Awarded NSF BoCP Collaborative: 'Functional ecological networks: linking changing biodiversity to ecosystem functioning' **\$293,378** (PI: **J. Rowan**, collaborative proposal totaling **\$2,475,604** with E. Fricke, W. Fagan, H. Rogers, S. Santana)

2021-2024 'Lothagam: Hominin origins and faunal turnover in the late Miocene' **\$158,235** Turkana Basin Institute (PI: **J. Rowan**; co-PI: I. Nengo)

2021-2024 NSF BCS-2039759 'Examining the relationship between an increasingly carnivorous *Homo erectus* and Pleistocene mammal extinctions' **\$90,099** (PI: W. Barr, co-PI: **J. Rowan**, A. Du, K. Chritz)

2021-2024 'Disentangling the drivers of human evolution: Climate, tectonics, and habitat' **\$1,200,000** Keck Foundation (PI: B. Saylor; Senior Personnel: **J. Rowan**)

2019-2022 'Multiproxy paleoecology of ~ 2.35 Ma early *Homo* from Ethiopia' **\$13,996** Leakey Foundation (PI: J. Robinson; co-PI: **J. Rowan**, I. Lazagabaster)

HONORS, AWARDS, AND FELLOWSHIPS

External

2020 Cozzarelli Prize Nominee (for Rowan et al., 2020 *PNAS*)
National Academy of Sciences

2014 Graduate Research Fellowship (**\$138,000**)
National Science Foundation

2016 Conference Travel Grant (**\$250**)
Paleoanthropology Society

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

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

2013 Graduate Research Fellowship, Honorable Mention
National Science Foundation

Internal

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

2016 Graduate Research Grant (**\$1,944**)
Arizona State University

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

2012 Multi-year Graduate Fellowship (**\$134,064**)
Arizona State University

2011 Board of Trustees Fellowship for Distinguished Students (**\$1,000**)
Stockton University

CONFERENCE PRESENTATIONS

Refereed Abstracts (*student author)

2022

Gaiku*, M., Feibel, C. S., Vitek, N. S., Seiffert, E. R., **Rowan, J.**, Aoron*, E., Princehouse, P. Diversity and distribution of new Paleogene mammalian faunas from the Topernawi Locality (Turkana Depression, Kenya). 82th Annual Meeting of the Society of Vertebrate Paleontology, Toronto, Ontario.

Sankau*, L., Green, D. R., Uno, K. T., **Rowan, J.** Niche partitioning in fossil bovids near the Mio-Pliocene at Lothagam, Turkana Basin, Kenya. 82th Annual Meeting of the Society of Vertebrate Paleontology, Toronto, Ontario.

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, Tanzania.

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.

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

2022

“African ecology and human evolution: New insights from Lothagam (Turkana Basin, Kenya)”
New York State Museum and University at Albany Symposium: Changing Human and Natural Environments Through Time (Albany, New York)

“*Homo erectus* and ancient hominin impacts in Africa”
Université de Poitiers (Poitiers, France)

2021

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

2020

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

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

- 2022- Lothagam Research Project (West Turkana, Kenya)
- 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

Courses Taught at the University at Albany

Names and catalog numbers for organized courses are followed by the semester and year in which they were taught (note that this does not include independent studies or thesis credits).

Undergraduate:

- Introduction to Human Evolution (AANT 110): *S21, S22, S23*
- Human Paleobiology (AANT 416): *F21, S22*
- Primate Evolutionary Biology (AANT 409): *F21, F22*

Graduate:

- Proseminar in Biological Anthropology (AANT 502): *F21, S23*
- Primate Paleobiology (AANT 617): *F22*

Courses Taught at Other Institutions

Undergraduate:

- Writing in Biology (UMass Amherst): *S20*

- Stones, Bones, and Human Evolution (Arizona State University, Laboratory Portion): *F13, S14*

Graduate:

- Earth and Life Through Time (Turkana University College): *S21, F21*
- Evolution of Life on Earth (UMass Amherst): *S20*
- Primate Evolution (Turkana University College): *S22*
- Proseminar in Organismic and Evolutionary Biology: *F19*

WORKSHOPS TAUGHT

- 2021-2022 “Quantitative Methods” for Primate Evolution (MHEB 824)
Turkana University College/Turkana Basin Institute
- 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 Students (Chair)

- 2022- Everlyne Omondi, Ph.D. student in Anthropology
University at Albany
“Faunal turnover in the late Miocene of eastern Africa”
- 2021- Sara Magee, Ph.D. student in Anthropology
University at Albany
“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
“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)”

Graduate Students (Committee)

- 2021- Antonio Otero, Ph.D. student in Anthropology
University at Albany
“Reconstructing locomotor repertoire of the papionine and hominoid knee”

Undergraduate Students (Chair)

- 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
“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*.

“UAlbany professor: Humans have led to waves of animal extinctions”

Times Union (2022)

<https://www.timesunion.com/news/article/Study-Extinction-of-prehistoric-mammals-17465671.php>

“Study reveals how prehistoric humans simplified the world’s food webs”

University at Albany (2022)

<https://www.albany.edu/news-center/news/2022-study-reveals-how-prehistoric-humans-simplified-worlds-food-webs>

“Did a taste for blood help humans grow big brains? Story isn’t so simple, study argues”

Science (2022)

<https://www.science.org/content/article/did-taste-blood-help-humans-grow-big-brains-story-isn-t-so-simple-study-argues>

“Did eating meat really make us human?”

Wired (2022)

<https://www.wired.com/story/human-evolution-meat/>

“Eating meat may not have been as crucial to human evolution as we thought”

Popular Science (2022)

<https://www.popsci.com/science/eating-meat-human-evolution-study/>

“New Study: Meat May Not Have Made Us Human, After All”

University at Albany (2022)

<https://www.albany.edu/news-center/news/2022-new-study-meat-may-not-have-made-us-human-after-all>

“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)

<http://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

Departmental

- 2022 Search Committee Member, Visiting Assistant Professor in Human Biology
University at Albany
- 2022 CURCE Undergraduate Research Fair (Human Biology Representative)
University at Albany
- 2022- Director of *Origins Field School* (Semester Abroad Program in Kenya)
University at Albany
- 2021- Undergraduate Affairs Committee (Department of Anthropology)
University at Albany

College and University

- 2022 Fall Preview Day for Prospective Undergraduate Students
University at Albany
- 2022 Accepted Student Open House, College of Arts and Sciences
University at Albany
- 2022 Accepted Students Reception, College of Arts and Sciences
University at Albany
- 2021 Marching Faculty Member, University Undergraduate Graduation Ceremony

University at Albany

- 2021 Accepted Student Open House, College of Arts and Sciences
University at Albany
- 2020 Fall Preview Day for Prospective Undergraduate Students
University at Albany
- 2020 COVID-19 Surveillance Testing (Saliva Test Kit Assembly)
University at Albany

Professional

Journal Peer-Review (n = 32 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* (3), *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* (3), *Proceedings B* (1), *Quaternary International* (1), *Quaternary Research* (1), *Royal Society Open Science* (1), *Science* (1).

- 2021- Leakey Foundation Proposal Reviews (n = 3)
- 2021 Book Chapter Review for P. J. Constantino, K. E. Reed, B. A. Wood (eds) *The Forgotten Lineage(s): Paleobiology of Paranthropus*. Springer.
- 2021- SVP Annual Meeting Program Committee (3-year term)
Society of Vertebrate Paleontology
- 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)
- 2019 National Science Foundation Proposal Review (Earth Sciences)

Scientific Outreach and Education

- 2020 “Paleontology: New Insights from Old Bones”
Life Science Café, University of Massachusetts Amherst

- 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)

PROFESSIONAL AFFILIATIONS

American Association of Biological Anthropologists
National Museums of Kenya (Research Affiliate)
Paleoanthropology Society
Society of Vertebrate Paleontology
Turkana Basin Institute (Research Affiliate)