

Last Modified November 2023

Kaedan O'Brien

Curriculum Vitae

Department of Anthropology
University of Utah
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EDUCATION

- 2020-present Ph.D. Anthropology Candidate, University of Utah, Salt Lake City, Utah, USA. Committee: Dr. J. Tyler Faith (Chair), Dr. John Broughton, Dr. Brian F. Coddling, Dr. Diego P. Fernandez, and Dr. Kathleen Ritterbush. Dissertation: *Isotopic evidence of seasonality and migration in the Last Glacial Period of Kenya*. Expected Graduation: 2024.
- 2018-2019 M.S. Anthropology, University of Utah, Salt Lake City, Utah, USA. Committee: Dr. J. Tyler Faith (Chair), Dr. Joan Brenner-Coltrain, & Dr. Brian Coddling. Thesis: *Ungulate turnover in the Koobi Fora Formation: Spatial and temporal variation in the Early Pleistocene*.
- 2014-2018 B.S. Anthropology & Zoology, University of Wisconsin-Madison, Madison, Wisconsin, USA. Advisor: Dr. Sarah C. Clayton. Thesis: *Understanding societal collapse through a hinterland community: A case study from the site of Chicoloapan Viejo in the southern Basin of Mexico*.

CURRENT APPOINTMENTS

- 2020-present National Science Foundation Graduate Research Fellow. University of Utah, Salt Lake City, Utah, USA.
- 2018-present National Museums of Kenya Department of Earth Sciences Visiting Researcher. Nairobi, Kenya.
- 2018-present Natural History Museum of Utah Department of Anthropology Student Academic Affiliate. Salt Lake City, Utah, USA.
- 2018-present University of Utah Archaeological Center Student Affiliate. Salt Lake City, Utah, USA.
- 2018-present Global Change & Sustainability Center Student Affiliate. University of Utah, Salt Lake City, Utah, USA.

PREVIOUS APPOINTMENTS

- 2018 Koobi Fora Research & Training Program Research Intern. The George Washington University, Washington, D.C., USA.
- 2017-2018 Study of Community & Landscape Ecology Lab researcher. University of North Georgia, Dahlonega, Georgia, USA.

PUBLICATIONS

In Revision

12. **O'Brien, K.***, Podkovyrovff, K., Fernandez, D.P., Tryon, C.A., Cerling, T.E., Ashioya, L., & Faith, J.T. Herbivore migration during the Last Glacial Period of Kenya. *Nature Ecology and Evolution*.
11. Kappelman, J.*, Todd, L.C., Davis, C.A., Cerling, T.E., Feseha, M., Getahun, A., Johnsen, R., Kay, M., Kocurek, G.A., Nachman, B.A., Negash, A., Negash, T., **O'Brien, K.**, Pante, M., Ren, M., Smith, E.I., Tabor, N.J., Tewabe, D., Wang, H., Yang, D., Yirga, S., Crowell, J.W., Fanuka, M.F., Habtie, T., Jackson, J.M., Klehm, C., Loewen, N.D., Melaku, S., Melton, S.M., Myers, T.S., Millonig, S., Plummer, M.C., Riordan, K.J., Rosenau, N.A., Skinner, A., Thompson, A.K., Trombetta, L.M., Witzel, A., Desta, A.A., Campisano, C.J., Endalamaw, M., Getachew, T., Himiak, J., E., Ingram, B.H., Marean, C.W., de la Cruz Medina, K., Roberts, A., Valdes, J., Wyman, L., Yadeta, M., & Yanny, S. Title redacted. *Nature*.
10. Abraham, J.O.*, Rowan, J., **O'Brien, K.**, Sokolowski, K.G., & Faith, J. T. Environmental context shapes the relationship between grass consumption and body size in African herbivore communities. *Ecology and Evolution*.

2023

9. **O'Brien, K.***, Hebdon, N., & Faith, J.T. Paleoecological evidence for environmental specialization in *Paranthropus boisei* compared to early *Homo*. *Journal of Human Evolution* 177, 103325.
8. **O'Brien, K.***, Irmis, R.B., Coltrain, J.B., Dalmás, D.M., Derieg, K.M., Evans, T., Richards, E.S., Richards, F.M., Rickart, E.A., & Faith, J.T. The utility of alpine cave fossil assemblages for zoological census: an example from northern Utah, U.S.A. *Journal of Mammalogy*.
7. **O'Brien, K.***, Podkovyrovff, K., Fernandez, D.P., Tryon, C.A., Ashioya, L., & Faith, J.T. Migratory behavior in the enigmatic Late Pleistocene bovid *Rusingoryx atopocranium*. *Frontiers in Environmental Archaeology* 2, 1237714.
6. Goldstein, S.*, **O'Brien, K.**, Adum, A., & Mwangi, J. A multi-component forager-to-herder sequence at Kapsoo Rockshelter (Chebinyiny) on the Uasin Gishu Plateau, Kenya. *Azania: Archaeological Research in Africa*, 1-27.
5. Ranhorn, K.L.*, Mavuso, S.S., Colarossi, D., Dogandžić, T., **O'Brien, K.**, Ribordy, M., Ssebuyungu, C., Warren, S., Harris, J.W.K., Braun, D.R., & Ndiema, E. By the lakeshore: multi-scalar geoarchaeology in the Turkana Basin at Gajj17, Koobi Fora (Kenya). *Quaternary Science Reviews* 317, 108257.

2021

4. **O'Brien, K.***, Tryon, C.A., Kimeu, B., Blegen, N., 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

3. **O'Brien, K.***, Patterson, D.B., Biernat, M.D., Braun, D.R., Cerling, T.E., McGrosky, A., & Faith, J.T. Ungulate turnover in the Koobi Fora Formation: Spatial and temporal variation in the Early Pleistocene. *Journal of African Earth Sciences* 161, 103658.

Last Modified November 2023

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

2019

1. Patterson, D.B.*, Braun, D.R., Allen, K., Barr, W.A., Behrensmeyer, A.K., Biernat, M.D., Lehmann, S.B., Maddox, T., Manthi, F.K., Merritt, S.R., Morris, S.E., **O'Brien, K.**, Reeves, J.S., Wood, B.A., & Bobe, R. Comparative isotopic evidence from East Turkana supports a dietary shift within the genus *Homo*. *Nature Ecology & Evolution*, 3(7), 1048-1056.

*Corresponding Author

AWARDS & FELLOWSHIPS

2023

19. Doctoral Dissertation Research Improvement Grant (\$30,700), National Science Foundation. *Evaluating Seasonality and Migration as Ecological Drivers of Technological Transition in Human Evolutionary History*. Principal Investigator: J. Tyler Faith; Co-PI: **Kaedan O'Brien**.
18. Earl and Elies Skidmore Endowed Graduate Fellowship (\$5,000).
17. LGBT Resource Center Scholarship (\$3,000).
16. Associated Students of the University of Utah Travel Grant (\$6000), University of Utah. *Herbivore Migration during the Last Glacial Period of Kenya*. Principal Investigator: **Kaedan O'Brien**.
15. Graduate Student Travel Grant (\$500), Global Change & Sustainability Center, University of Utah. *Isotopic evidence of seasonality and migration during the Last Glacial Period of Kenya*. Principal Investigator: **Kaedan O'Brien**.
14. Graduate Student Travel Award (\$500). College of Social and Behavioral Sciences, University of Utah. *Isotopic evidence of seasonality and migration during the Last Glacial Period of Kenya*. Principal Investigator: **Kaedan O'Brien**.

2022

13. Graduate Research Grant (\$14,972), Leakey Foundation. *Seasonality, migratory systems, and the MSA-LSA transition in eastern Africa*. Principal Investigator: **Kaedan O'Brien**.
12. Dawson Pre-Doctoral Fellowship Award (\$3,000), Society of Vertebrate Paleontology. *Reconstructing Late Pleistocene Paleo-migration in the eastern Lake Victoria Basin, Kenya*. Principal Investigator: **Kaedan O'Brien**.
11. Graduate Research Grant (\$3,000), Wilkes Center for Climate Science & Policy. *Reconstructing paleoclimate, seasonality, and ancient migratory systems in the Late Pleistocene of the eastern Lake Victoria Basin, Kenya*. Principal Investigator: **Kaedan O'Brien**.
10. Richard Osgood Award (\$1,200), Paleontological Society. *Seasonality as a driver of ungulate migration patterns at the Late Pleistocene site of Kibogo, Kenya*. Principal Investigator: **Kaedan O'Brien**.

Last Modified November 2023

2021

9. Graduate Research Grant (\$3,000), Global Change & Sustainability Center, University of Utah. *Tracking Late Quaternary Ungulate Migration and Seasonality in Kenya Using Stable Isotopes*. Principal Investigator: **Kaedan O'Brien**.
8. Graduate Student Travel Grant (\$500), Global Change & Sustainability Center, University of Utah. *Is Paranthropus boisei an environmental specialist compared to early Homo? Evaluating the faunal evidence from the Koobi Fora Formation, Kenya*. Principal Investigator: **Kaedan O'Brien**.

2020

7. Graduate Research Fellowship (\$138,000), National Science Foundation. Principal Investigator: **Kaedan O'Brien**.
6. Graduate Student Travel Assistance Award (\$500), University of Utah Graduate School. Principal Investigator: **Kaedan O'Brien**.

2019

5. Graduate Research Grant (\$3,000), Global Change & Sustainability Center, University of Utah. *Multiproxy assessment of African fossil horse dietary ecology*. Principal Investigator: **Kaedan O'Brien**.
4. Associated Students of the University of Utah Travel Grant (\$250), University of Utah. *An evolutionary and ecological overview of Equidae from the Koobi Fora Formation Early Pleistocene record*. Principal Investigator: **Kaedan O'Brien**.

2018

3. Graduate Student Travel Grant (\$500), Global Change & Sustainability Center, University of Utah. *Early Pleistocene grassland dynamics at East Turkana: Spatiotemporal patterns of mesic- and xeric-adapted ungulates and new insights into niche preferences of Eurygnathohippus and Kolpochoerus*. Principal Investigator: **Kaedan O'Brien**.
2. Student Travel Grant Award #3433 (\$350), Associated Students of Madison, University of Wisconsin-Madison. *Early Pleistocene grassland evolution at East Turkana, northern Kenya: Indications from shifting patterns of mesic and xeric adapted mammals*. Principal Investigator: **Kaedan O'Brien**.

2017

1. Koobi Fora Field School Fellowship (\$6,500), National Science Foundation International Research Experience for Students.

CONFERENCE PRESENTATIONS

2024

32. **O'Brien, K.***, Podkovyrov, K., Fernandez, D.P., Tryon, C.A., Cerling, T.E., Ashioya, L., & Faith, J.T. Herbivore migration during the Last Glacial Period of Kenya (Abstract Accepted). American Association of Biological Anthropologists 93rd Annual Meeting, Los Angeles, CA, USA.

2023

31. **O'Brien, K.***, Podkovyrov, K., Fernandez, D.P., Tryon, C.A., Cerling, T.E., Ashioya, L., & Faith, J.T. Isotopic evidence of seasonality and migration in the Last Glacial Period of Kenya (Podium). Society of Vertebrate Paleontology 83rd Annual Meeting, Cincinnati, OH, USA.

30. Koehler, K.*, Faith, J.T., Braun, D.R., Schwartz, A.F. **O'Brien, K.**, Sokolowski, K., Davies, B., Stynder, D., & DeSantis, L. Dental microwear texture analysis of Pleistocene carnivores on the west coast of South Africa (Podium). Society of Vertebrate Paleontology 83rd Annual Meeting, Cincinnati, OH, USA.
29. de Jager, D.*, Black, W., Seconna, W., Faith, J.T., **O'Brien, K.**, & Lorenzen, E. Palaeogenomes of a lost world: Ancient bovids of the submerged Palaeo-Agulhas Plain of southern Africa (Podium). International Society for Biomolecular Archaeology 2023 Meeting, Tartu, Estonia.
28. **O'Brien, K.***, Podkovyrov, K., Fernandez, D.P., Ashioya, L., Cerling, T.E., & Faith, J.T. Isotopic evidence of seasonality and migration in the Last Glacial Period of Kenya (Poster). Wilkes Climate Summit 2023, Salt Lake City, UT, USA.
27. Podkovyrov, K.*, **O'Brien, K.** Bulk vs serial sampling in $\delta^{13}\text{C}$, $\delta^{18}\text{O}$, and $^{87}\text{Sr}/^{86}\text{Sr}$ isotopic analysis of fossil herbivore teeth (Poster). The Society for Integrative and Comparative Biology 2023 Annual Meeting, Austin, TX, USA.
- 2022
26. **O'Brien, K.***, Hebdon, N., & Faith, J.T. Is *Paranthropus boisei* an environmental specialist compared to early *Homo*? Evaluating the faunal evidence from the Koobi Fora Formation, Kenya (Podium). American Association of Biological Anthropologists 91st Annual Meeting, Denver, CO, USA.
25. DeSantis, L.Ra.G., Stynder, D., **O'Brien, K.**, Braun, D.R., & Faith, J.T.* What were all those grazers eating? Dental microwear texture analysis of Pleistocene herbivores from the southwestern Cape, South Africa (Podium). Southern African Society for Quaternary Research 23rd Conference, St. Lucia, South Africa.
24. **O'Brien, K.***, Hebdon, N., & Faith, J.T. Is *Paranthropus boisei* an environmental specialist compared to early *Homo*? Evaluating faunal evidence from the Koobi Fora Formation, Kenya (Poster). Paleoanthropology Society 2022 Annual Meeting, Denver, CO, USA.
- 2021
23. **O'Brien, K.***, Irmis, R.B., Coltrain, J.B., Dalmas, D.M., Evans, T., Richards E.S., Richards, F.M., & Faith, J.T. High-elevation census of montane ecosystems: Ecological implications for Quaternary vertebrates from Boomerang Cave, Utah, USA (Virtual Presentation). Society of Vertebrate Paleontology 81st Annual Meeting, Virtual Meeting.
22. **O'Brien, K.***, Irmis, R.B., Coltrain, J.B., Dalmas, D.M., Evans, T., Richards E.S., Richards, F.M., & Faith, J.T. Ecological Census implications, site description, and systematic paleontology of Boomerang Cave, a vertebrate assemblage in Cache County, Utah, USA (Virtual Presentation). Crossing The Palaeontological-Ecological Gap 2nd Meeting, Virtual Meeting.
21. Freiwald, C.*, Clayton, S.C., & **O'Brien, K.** Isotopic diet and migration at Chicoloapan Viejo, Mexico (Virtual Presentation). Society for American Archaeology 86th Annual Meeting, Virtual Meeting.

2020

20. **O'Brien, K.***, Tryon, C.A., Blegen, N., Kimeu, B., Rowan, J., Faith, J.T. First appearance of Grévy's zebra (*Equus grevyi*), Kapthurin Formation, Kenya (Virtual Presentation). Society of Vertebrate Paleontology 80th Annual Meeting, Virtual Meeting.
19. Freiwald, C., **O'Brien, K.**, & Clayton, S.C. Diet and mobility at Chicoloapan Viejo (Abstract Accepted). Society for American Archaeology 85th Annual Meeting, Austin, TX, USA.
18. Ssebuyungo, C., Mavuso, S., Colarossi, D., Dogandzic, T., **O'Brien, K.**, Ndiema, E., Braun, D. R., Harris, J.W.K., & Ranhorn, K.L.* Gajj17: A Middle Stone Age site at Koobi Fora, East Turkana (Kenya) (Abstract Accepted). American Association of Physical Anthropologists 89th Annual Meeting, Los Angeles, California, USA.
17. Ribordy, M.*, Ranhorn, K.R., Braun, D.R., **O'Brien, K.**, Mavuso, S., Colarossi, D., Dogandzic, T., Ssebuyungo, C., Warren, S., Harris, J.W.K., & Ndiema, E. The Aquatic Fauna of Gajj17, a Late Pleistocene site at Koobi Fora, Kenya, and the implications of aquatic resources for human evolution (Abstract Accepted). Paleoanthropology Society 2020 Annual Meeting, Los Angeles, California, USA.

2019

16. **O'Brien, K.*** & Faith, J.T. An evolutionary and ecological overview of Equidae from the Koobi Fora Formation Early Pleistocene record (Podium). Geological Society of America 2019 Annual Meeting, Phoenix, Arizona, USA.
15. **O'Brien, K.***, Bui, K., Hebdon, N., & Faith, J.T. Specialization and niche partitioning of *Homo* and *Paranthropus* in the Early Pleistocene of East Turkana (Podium). Eastern African Association of Palaeoanthropology & Palaeontology 7th Meeting, Nairobi, Kenya.
14. Mavuso, S.*, Jinnah, Z., Colarossi, D., Dogandzic, T., **O'Brien, K.**, Harris, J.W.K., Braun, D.R., Ranhorn, K.L. Middle Stone Age artefact-bearing deposits in the Koobi Fora Formation: a geological study (Podium). East African Association of Palaeoanthropology & Palaeontology 7th Meeting, Nairobi, Kenya.
13. Ssebuyungo, C.*, Mavuso, S., Colarossi, D., Dogandzic, T., **O'Brien, K.**, Ndiema, E., Braun, D., Harris, J.W.K., & Ranhorn, K.L. Gajj17: A Middle Stone Age site at Koobi Fora, East Turkana (Kenya) (Podium). East African Association of Palaeoanthropology & Palaeontology 7th Meeting, Nairobi, Kenya.
12. Freiwald, C.R.*, Weeden, S., Phillips, L., **O'Brien, K.**, & Clayton, S.C. Epiclassic diet and origin in the southeastern Basin of Mexico (Podium). Urban & Agrarian Sustainability in the Basin of Mexico Symposium, Nanterre, France.
11. Ranhorn, K.L.*, Mavuso, S., Colarossi, D., Dogandzic, T., **O'Brien, K.**, Ndiema, E., Braun, D.R., & Harris, J. New Archaeological Evidence from the Middle Stone Age of East Turkana (Podium). Paleoanthropology Society 2019 Annual Meeting, Albuquerque, New Mexico, USA.
10. Hanson, A.*, Biernat, M.D., **O'Brien, K.**, Enny, A., Porter, J., Braun, D.R., & Barr, W.A. Bovid tribe abundance as an indicator of spatial and temporal heterogeneity in the Omo-Turkana Basin from 2.0-1.38 Ma (Poster). American Association of Physical Anthropologists 88th Annual Meeting, Cleveland, Ohio, USA.

2018

9. **O'Brien, K.***, McGrosky, A., Allen, K., Anderson, L., Biernat, M.D., Braun, D.R., Guerrero, A.B., Hammond, A., Hunter, L., Seckinger, J., Torres, F., Zeller, R., Zerihun, D., & Patterson, D.B. Early Pleistocene grassland evolution at East Turkana, northern Kenya: Indications from shifting patterns of mesic and xeric adapted mammals (Podium). American Association of Physical Anthropologists 87th Annual Meeting, Austin, Texas, USA.
8. Guerrero, A.B.*, Anderson, A., Seckinger, J., Allen, K., **O'Brien, K.**, Zeller, R., Zerihun, D., Biernat, M.D., McGrosky, A., Torres, F., Patterson, D.B., & Braun, D.R. Differences in Bovidae faunal abundance in the Pleistocene of the Omo Group of East Africa (Podium). American Association of Physical Anthropologists 87th Annual Meeting, Austin, Texas, USA.
7. Guerrero, A.B.*, Anderson, A., Seckinger, J., Allen, K., **O'Brien, K.**, Zeller, R., Zerihun, D., Biernat, M.D., McGrosky, A., Torres, F., Patterson, D.B., & Braun, D.R. Differences in Bovidae faunal abundance in the Pleistocene of the Omo Group of East Africa (Podium). 2018 Southwestern Anthropological Association Conference, Fresno, California, USA.
6. **O'Brien, K.***, McGrosky, A., Allen, K., Biernat, M., Braun, D.R., Guerrero, A.B., Patterson, D.B., Torres, F., & Faith, J.T. Early Pleistocene grassland dynamics at East Turkana: Spatiotemporal patterns of mesic- and xeric-adapted ungulates and new insights into niche preferences of *Eurygnathobippus* and *Kolpochoerus* (Poster). Society of Vertebrate Paleontology 78th Annual Meeting, Albuquerque, New Mexico, USA.
5. **O'Brien, K.***, McGrosky, A., Allen, K., Anderson, L., Biernat, M.D., Braun, D.R., Guerrero, A.B., Hunter, L., Seckinger, J., Torres, F., Zeller, R., Zerihun, D., & Patterson, D.B. Early Pleistocene grassland dynamics at East Turkana: Indications from shifting patterns of mesic- and xeric-adapted ungulates and new insights into ungulate niche preference (Poster). Paleoanthropology Society 2018 Annual Meeting, Austin, Texas, USA.
4. Allen, K.*, Anderson, L., Biernat, M.D., Guerrero, A.B., McGrosky, A., **O'Brien, K.**, Seckinger, J., Zeller, R., Zerihun, D., Braun, D.R., & Patterson, D.B. Early Pleistocene ecosystem evolution and heterogeneity at East Turkana, northern Kenya as indicated by stable carbon and oxygen isotope data from mammalian enamel (Poster). American Association of Physical Anthropologists 87th Annual Meeting, Austin, Texas, USA.
3. Seckinger, J.*, Torres, F., **O'Brien, K.**, Anderson, L., McGrosky, A., Allen, K., Zeller, B., Zerihun, D., Guerrero, A.B., Biernat, M.D., Hunter, L., Hammond, A., Patterson, D.B., Braun, D.R. The paleoecological context of *Homo erectus* in East Turkana, northern Kenya between 2.0 and 1.4 Ma (Abstract). American Association of Physical Anthropologists 87th Annual Meeting, Austin, Texas, USA.

2017

2. Patterson, D.B.* & **O'Brien, K.** Early Pleistocene ecosystem evolution at East Turkana: an update on datasets and analyses (Podium). ECHOES Workshop, Helsinki, Finland.
1. Uy, J.*, **O'Brien, K.**, & Hawks, J. Pregnancy and the upper volumetric expansion of the barrel-shaped ribcage in *Hyllobates* and *Homo* (Poster). American Association of Physical Anthropologists 86th Annual Meeting, New Orleans, Louisiana, USA.

*Presenter

Last Modified November 2023

COURSES TAUGHT

- 2023 ANTH 5500 Anthropology Capstone—Hidden Research Methods instructor of record. University of Utah (one semester).
- 2020-2021 ANTH 1030 Prehistoric Archaeology instructor of record. University of Utah (two semesters).

OTHER TEACHING

- 2020-2022 Swahili tutor. University of Utah (four semesters).

STUDENTS MENTORED

- 2022-2023
7. Katya Podkovyoff, Undergraduate Research Opportunities Program. University of Utah. *Comparing Bulk versus Serial Sampling in $\delta^{13}\text{C}$, $\delta^{18}\text{O}$, and $^{87}\text{Sr}/^{86}\text{Sr}$ Isotopic Analysis of Fossil Herbivore Teeth.*
- 2022
6. Lilian Ashioya, National Museums of Kenya intern. *Stable Isotope Serial Sampling of Late Pleistocene Ungulates.*
5. Maren Moffat, independent study. University of Utah. *North American faunal identification.*
- 2021-2022
4. Kayleigh Kirkpatrick, Undergraduate Research Opportunities Program. University of Utah. *Identification of Vertebrate Fossils from High-Elevation Caves in Utah.*
- 2019
3. Moses Mutuma, National Museums of Kenya intern. *Identification of Early Pleistocene Equidae.*
- 2018
2. Annalys Hanson, Koobi Fora Research & Training Program. *Bovid tribe abundance as an indicator of spatial and temporal heterogeneity in the Omo-Turkana Basin from 2.0-1.38 Ma.*
1. Joshua Porter, Koobi Fora Research & Training Program. *Stable isotopes of the Early Pleistocene Koobi Fora Formation.*

INVITED GUEST LECTURES

- 2023 Geophysical Sciences Seminar. Department of Geophysical Sciences, University of Chicago. *Using quantitative paleobiology to determine the paleoenvironmental drivers of African mammal evolution and extinction.*
- 2023 Introduction to Biological Anthropology. Department of Anthropology, University of Utah. *Hominin paleoecology.*
- 2023 Methods in Biological Anthropology. Department of Anthropology, California State University, Long Beach. *The academic track.*
- 2023 Archaeological Methods. Department of Anthropology, University of Utah. *Stable Isotope Geochemistry.*

Last Modified November 2023

- 2023 Introduction to Biological Anthropology. Department of Anthropology, University of Utah. *Paleoenvironmental Reconstruction*.
- 2023 Prehistoric Archaeology. Department of Anthropology, University of Utah. *Paleoecology of Homo and Paranthropus*.
- 2023 Eighth Grade Science. Waunakee Middle School. *Paleontology*.
- 2022 Introduction to Biological Anthropology. Department of Anthropology, University of Utah. *Hominin paleoecology*.
- 2021 Utah Friends of Paleontology. *What fossils from caves can tell us about alpine Utah's past*.
- 2021 Anthropology. East Hollywood High School. *Paleoanthropology*.
- 2021 Vertebrate Paleontology. Turkana University College. *Seasonality and Migration during the Last Glacial Period of Kenya*.
- 2020 Introduction to Anthropology. Utah Valley University. *Paleoecology and hominin paleoenvironments*.
- 2018 High School Biology. Cadott High School. *Paleoecology*.
- 2017 High School Biology. Cadott High School. *Human Evolution*.
- 2016 High School Biology. Cadott High School. *Biological Anthropology*.

FIELD RESEARCH EXPERIENCE

- 2021-present Utah Cave Quaternary Project, fossil collection. Principal Investigators: Dr. J. Tyler Faith and Dr. Randall B. Irmis. UT, USA (two weeks).
- 2021-present Natural History Museum of Utah small mammal trapping. Principal Investigator: Dr. Eric Rickart. UT, USA (two weeks).
- 2020-2021 Rio Mesa Archaeology Project, ecological and archaeological survey. Principal Investigators: Dr. Brian Coddling & Dr. Kristen Hawkes. UT, USA (three weeks).
- 2018 Lake Victoria Pleistocene Project, paleontology survey. Principal Investigator: Dr. J. Tyler Faith. Kisumu & Kericho Counties, Kenya (two weeks).
- 2017-2018 Koobi Fora Research & Training Program, paleoecology research group. Principal Investigators: Dr. David Patterson & Dr. W. Andrew Barr. Laikipia and Marsabit Counties, Kenya (14 weeks).

SCIENTIFIC WORK EXPERIENCE

- 2020-2021 Rio Mesa Archaeology Project Crew Chief, Rio Mesa Field Station, Utah, USA.
- 2017-2018 Vertebrate Paleontology Intern, University of Wisconsin Geology Museum, University of Wisconsin-Madison.

Last Modified November 2023

2017 Osteology Research Assistant, Proyecto Arqueológico Chicoloapan Viejo, Centro San Juan Teotihuacán, Estado de México, México.

UNIVERSITY AND MUSEUM SERVICE

2021-present NSF-GRFP Application Preparation Writing Workshop panel member, University of Utah.

2020-present Human Evolution exhibit design committee, Natural History Museum of Utah.

2020-present Darwin Day event planning and outreach, Natural History Museum of Utah, University of Utah.

2019-present Behind the Scenes Weekend outreach, Natural History Museum of Utah.

2018-present Anthropology Club, Department of Anthropology, University of Utah.

2023 Scientist in the Spotlight, Natural History Museum of Utah.

2022-2023 Department of Anthropology Professional Development Committee Chair. Salt Lake City, Utah, USA.

2021-2023 Department of Anthropology Graduate Student Advisory Committee Chair. Salt Lake City, Utah, USA.

2020 Natural History Museum of Utah Science Communication Fellow. Salt Lake City, Utah, USA.

2020 Paleontology Journal Club Organizer. University of Utah.

2020 World Anthropology Day event planning and outreach, University of Utah.

2019 Nine Mile Canyon Stewardship Day outreach, Wellington, UT, USA.

2017-2018 Collegiate Paleontological Association of Wisconsin, Department of Geoscience, University of Wisconsin-Madison.

2016-2018 AnthroCircle Leadership Committee, University of Wisconsin-Madison.

PROFESSIONAL SERVICE

2020-present Proceedings of the National Academy of Sciences Journal Club Panel Member. Washington, D.C., USA.

2022 American Association of Biological Anthropologists panel: The First-Generation Student: Navigating Academia and Tips for Educators.

2021 Society of Vertebrate Paleontology Session Moderator: Holocene & Pleistocene Mammalian Faunas.

IN THE MEDIA

2023 *Curators & Cavers: How a Tip from a Citizen Scientist Led to Deep Discoveries in Utah's Caves.* Natural History Museum of Utah Press Room.

Last Modified November 2023

PROFESSIONAL MEMBERSHIPS

2019-present Eastern African Association of Palaeoanthropology & Palaeontology
2018-present Society of Vertebrate Paleontology
2017-present Paleoanthropology Society
2017-present American Association of Biological Anthropologists
2022 Paleontological Society
2019-2022 Geological Society of America

PEER REVIEW

2023 Journal of Human Evolution (1).
2023 Quaternary Science Advances (1).
2022 Journal of Quaternary Science (1).
2020 Proceedings of the National Academy of Sciences (1).

FOREIGN LANGUAGES

Spanish: advanced.

Swahili: advanced.