

Suzanne E. Pilaar Birch, Ph.D.

Department of Anthropology | Department of Geography | University of Georgia
sepbirch@uga.edu

CURRENT APPOINTMENTS AND AFFILIATIONS

University of Georgia, Athens, GA, USA

- 2020- Associate Professor, Joint Appointment, Anthropology and Geography
- 2018- Internship Coordinator, Georgia Museum of Natural History
- 2014- Director, Quaternary Isotope Paleoecology Laboratory
- 2014- Research Associate, Center for Applied Isotope Studies
- 2014- Affiliate, Center for Integrative Conservation Research
- 2014- Affiliate, Institute for Women's Studies
- 2014- Adjunct Curator, Zooarchaeology, Georgia Museum of Natural History

PREVIOUS APPOINTMENTS AND AFFILIATIONS

- 2019-2024 Director, Center for Archaeological Sciences
- 2014-2020 Assistant Professor, Anthropology and Geography, University of Georgia
- 2013-2014 Postdoctoral Fellow, Joukowsky Institute for Archaeology & the Ancient World
Brown University, Providence, RI

EDUCATION

University of Cambridge St John's College, Cambridge, UK

Gates Cambridge Scholarship (competitive, full funding, MPhil/PhD)

- 2012 Ph.D. Archaeology
Dissertation: "Human Adaptations to Climate Change and Sea Level Rise at the Pleistocene-Holocene Transition in the Northeastern Adriatic"
Supervisors: Dr. Preston T. Miracle, Dr. Tamsin O'Connell
Examiners: Professor Graeme Barker, Professor Nicky Milner
- 2009 M.Phil. *with distinction* Archaeological Science
Thesis: "The Fauna of Vela Špilja on the Island of Lošinj, Croatia: Taphonomy, Ecology, and Subsistence"

Rutgers University School of Environmental and Biological Sciences (Cook College), NJ

- 2008 B.Sc. *summa cum laude* Evolutionary Anthropology, Paleoecology
Honors Thesis: "Using Dentition to Document Sheep and Goat Domestication in the Near East"

RESEARCH INTERESTS

Climate change adaptation, environmental archaeology, zooarchaeology, agricultural transitions, migration and seasonal mobility, digital archaeology, women in earth sciences

TEACHING COMPETENCY

Human behavioral ecology, paleoecology, archaeological science, environmental archaeology, zooarchaeology, climate change, biogeochemistry, paleobiogeography, data literacy

GRANTS

- 2024 **National Science Foundation.** Collaborative Research: Sustained Resources: Neotoma: Advancing Earth Science Contributions to Global Change Research via Growth of Well-Curated Open Paleodata. UGA PI. Collaborating PIs at other institutions: J. Williams, S. Ivory, R. Booth, D. Charles, J. Blois, and E. Davis.
- 2024 **National Science Foundation.** Collaborative Research: Climate Change and Agricultural Responses in Ancient Mediterranean Socio-Environmental Systems. UGA PI. Collaborating PIs at other institutions: P. Fall, S. Falconer, E. Ridder.
- 2024 **University of Cuenca, Ecuador.** Material Culture, Practices, Social Meanings, and Narratives Surrounding Cañari Food. Collaborator. PIs: M. Novillo Verdugo and E. Palacios Tamayo
- 2023 **National Science Foundation.** Supplemental Funding for “Neotoma Paleoecology Database, a Multi-Proxy, International, Community-Curated Data Resource for Global Change Research” PI.
- 2023 **National Park Service.** Great Smoky Mountains National Park Appalachian Highlands Science Learning Center Seed Grant. “The Stable Isotope Ecology of the Cataloochee Elk Herd: Diet, Mobility, and Environment”. PI.
- 2022 **National Science Foundation.** Collaborative Research: FAIROS. “Disciplinary Improvements for Past Global Change Research: Connecting Data Systems and Practitioners” Co-PI with M. LeFebvre, K. Emery. Collaborating PIs at other institutions: J. Blois, J. Williams, M. Balk, S. Goring, L. Leiberman, A. Thomer
- 2021 **Spanish Ministry of Science and Innovation.** “Human settlement, territory and environmental changes during the end of the Upper Paleolithic (OIS 2) in the central sector of the Cantabrian Range (CANTABRICOIS2)” PI: J.F. Jordá Pardo. Collaborator.
- 2021 **National Science Foundation.** “Long Term Agrarian Responses to Environmental Stress” Co-PI with P. Fall, S. Falconer, and E. Ridder.
- 2020 **Australian Alps National Parks Cooperative Management Program** Connecting Country: The archaeology and past climates of the Australian Alps. PI: G. Stannard. Co-I with A. Prendergast and J. Dibden.
- 2020 **National Science Foundation.** Collaborative Research: “Neotoma Paleoecology Database, a Multi-Proxy, International, Community-Curated Data Resource for Global Change Research” UGA PI. Collaborating PIs at other institutions: J. Williams, S. Goring, R. Booth, E. Davis, J. Blois.
- 2019 **National Science Foundation.** “Long-term Societal Reaction to Environmental Change” Co-PI with P. Fall, S. Falconer, and E. Ridder.
- 2018 **University of Georgia Office of Experiential Learning. Innovation Grant.** “Revamping the Georgia Museum of Natural History Internship Program” PI.
- 2018 **The Funk Foundation.** “Passenger Pigeon Exploitation during the Holocene in New York State.” PI.
- 2018 **Arts and Humanities Research Council UK.** “Radical Death and Early State Formation in the Ancient Near East” Co-PI with B. Hassett and D. Wengrow.
- 2016 **University of Georgia Research Foundation. Faculty Research Grant.** “Archaeologically-Linked Paleoenvironmental Reconstruction” PI.

- 2016 **Natural History Museum, London.** Subaward on Leverhulme Trust grant “Evolutionary patterns in deer on Mediterranean islands” Collaborator. PIs: A. Lister, V. Herridge.
- 2015 **Social Sciences and Humanities Research Council of Canada Connection Grant.** “Reconstructing Hunter-Gatherer Mobility: Building New Inter-disciplinary Frameworks in the Quaternary” Co-PI with J. Riel Salvatore and R. Wragg Sykes.
- 2015 **UGA STEM Initiative Small Grants Program.** “Enhancing and Diversifying Geosciences Instruction through Popular Gaming Platforms and Multi-user Virtual Environments (MUVES)” Co-PI with J.M. Shepherd, J. Shannon, T. Mote.
- 2015 **International Union for Quaternary Research (INQUA) Project Grant.** “Reconstructing Hunter-Gatherer Mobility: Building New Inter-disciplinary Frameworks in the Quaternary” Co-PI with J. Riel Salvatore and R. Wragg Sykes.
- 2015 **National Geographic Committee for Research and Exploration.** “Neolithization of Europe: New Zooarchaeological and Stable Isotope Evidence from Uğurlu Höyük, Gökçeada, Turkey” Co-PI with L. Atici.
- 2015 **Diversity Leadership Development Program, University of Georgia.**
- 2013 **Brown University Undergraduate Teaching and Research Award**
- 2013 **Research Councils UK Open Access Research Publication Grant**
- 2012 **Arts & Humanities Research Council Social Media Knowledge Exchange**
- 2012 **Natural Environment Research Council Radiocarbon Dating Grant**
- 2010 **Department of Archaeology, Cambridge University Research Grant**
- 2010 **Gates Cambridge Trust, Cambridge University Research Grant**

PUBLICATIONS

Citations: 1353 | h-index: 16 | OA indicates open access | students are underlined

PEER REVIEWED JOURNAL ARTICLES

- 2025 Yazıcıoğlu, G.B., Meiggs, D., Davis, M.J. and **S.E. Pilaar Birch**. Emerging Strontium isoscapes of Anatolia (Türkiye): New datasets & new perspectives in bioavailable $^{87}\text{Sr}/^{86}\text{Sr}$ baseline studies. *Frontiers in Environmental Archaeology*. DOI: 10.3389/fearc.2025.1520345. OA.
- 2025 Chruszcz, S. and **S.E. Pilaar Birch**. A Twentieth Century History of the Georgia Museum of Natural History. *Journal of the History of Collections*. DOI: 10.1093/jhc/fhae055
- 2025 **Pilaar Birch, S.E.**, Metzger, M., Ridder, E., Falconer, S., and P. Fall. Domestic herbivore mobility and herd management at Bronze Age Politiko-Troullia, Cyprus. *Archaeological and Anthropological Sciences*. DOI: 10.1007/s12520-025-02226-2. OA
- 2025 Fall, P., Falconer, S., Ridder, E., **Pilaar Birch, S.E.**, Metzger, M., Porson, S. Bronze Age agropastoral management in central Cyprus and along the Jordan Rift. *Journal of Archaeological Science: Reports*. DOI: 10.1016/j.jasrep.2025.105119. OA.

- 2025 Wengrow, D., Hassett, B., Sağlamtimur, H., Marsh, W., Brace, S., **Pilaar Birch, S.E.**, Baysal, E., Batıhan, M. and I. Aydoğan. Inequality at the dawn of the Bronze Age: the case of Başur Höyük, a “royal” cemetery at the margins of the Mesopotamian world. *Cambridge Archaeological Journal*. DOI: 10.1017/S0959774324000398
- 2025 Seabrook, M., Mikeskae, C., and **S.E. Pilaar Birch**. Improving identification of caprine mandibles: Integrating morphological and ZooMS analyses. *Journal of Archaeological Science: Reports*. DOI: 10.1016/j.jasrep.2025.105017
- 2024 Shipley, O.N. (and 35 others, including **S.E. Pilaar Birch**). Design, development, and implementation of IsoBank: a centralized repository for isotopic data. *PLOS ONE*. OA.
- 2023 Fall, P., Ridder, E., **Pilaar Birch, S.E.**, and S.E. Falconer. Bayesian modeling of a peripheral Middle Bronze Age settlement at Zahrat adh-Dhra' 1, Jordan. *Radiocarbon*. DOI: 10.1017/RDC.2023.99 OA
- 2023 Brandes, C.E. and **S.E. Pilaar Birch**. An osteometric analysis of elk (*Cervus elaphus manitobensis*) from Great Smoky Mountains National Park. *International Journal of Osteoarchaeology*. DOI: 10.1002/oa.3249 OA
- 2023 Falconer, S., Ridder, E., **Pilaar Birch, S.E.**, and P.L. Fall. Prehistoric Bronze Age Radiocarbon Chronology at Politiko-Troullia, Cyprus. *Radiocarbon* DOI: 10.1017/RDC.2022.99 OA
- 2022 **Pilaar Birch, S.E.**, Metzger, M., Ridder, E., Porson, S. Falconer, S.E., and P.L. Fall. Herd management and subsistence practices as inferred from isotopic analysis of animals and plants at Bronze Age Politiko-Troullia, Cyprus. *PLOS ONE* DOI: 10.1371/journal.pone.0275757 OA
- 2022 **Pilaar Birch, S.E.** and Szpak, P. Current Developments and Future Directions in Archaeological Science. *Proceedings of the National Academy of Sciences* 119 (43) e2212490119. DOI: 10.1073/PNAS.2212490119 OA
- 2022 Balk, M. (and 32 others, including **S.E. Pilaar Birch**). A solution to the challenges of interdisciplinary aggregation and use of specimen-level trait data. *iScience* DOI: 10.1016/j.isci.2022.105101 OA
- 2022 Fall, P.L., Richard, S., **Pilaar Birch, S.E.**, Ridder, E., D'Andrea, M., Long, J.C. Jr., Hedges-Knyrim, G., Porson, S., Metzger, M., and S.E. Falconer. New AMS chronology for the Early Bronze III/IV Transition at Khirbat Iskandar, Jordan. *Radiocarbon*. DOI: 1-16. doi:10.1017/RDC.2022.2 OA
- 2021 **Pilaar Birch, S.E.**, Boz, B., and B. Erdoğu. Isotope paleodietary analysis of humans from Chalcolithic Uğurlu, Gökçeada Island, Turkey. *Journal of Archaeological Science: Reports* 39: 103136 DOI: 10.1016/j.jasrep.2021.103136
- 2021 Vaiglova, P., Reid, R.E.B., Lightfoot, E., **Pilaar Birch, S.E.**, Hui, W., Li, S., and X. Liu. Localized management of non-indigenous animal domesticates in Northwestern China during the Bronze Age. *Scientific Reports* 11:15764 DOI: 10.1038/s41598-021-95233-x OA

- 2021 Hoggarth, J. (and 13 others, including **S.E. Pilaar Birch**). Impacts of the Coronavirus Pandemic on Women and Early Career Archaeologists. *Heritage* 4(3) 1681-1702 DOI:10.3390/heritage4030093 OA
- 2021 Porson, S., Falconer, S., **Pilaar Birch, S.E.**, Ridder, E., and P. Fall. Crop management and agricultural responses at Early Bronze IV Tell Abu en-Ni'aj, Jordan. *Journal of Archaeological Science*. DOI: 10.1016/j.jas.2021.105435
- 2021 Leppard, T. (and 10 others, including **S.E. Pilaar Birch**). The premise and potential of model-based approaches to island archaeology: A response to Terrell. *Journal of Island and Coastal Archaeology*. DOI: 10.1080/15564894.2021.1904463
- 2020 McPherson, M.G., Freeman, B.J., and **S.E. Pilaar Birch**. Uncovering the early history of the Georgia Museum of Natural History, 1785-1900. *Journal of the History of Collections* DOI: 10.1093/jhc/fhaa025
- 2019 **Pilaar Birch, S.E.**, Atici, L., and Erdoğan, B. Spread of domestic animals across Neolithic Western Anatolia and into Southeast Europe: New stable isotope evidence from Uğurlu Höyük, Gökçeada, Turkey. *PLOS ONE* 14(10): e0222319. DOI: 10.1371/journal.pone.0222319 OA
- 2019 Rivera Araya, M.J., Arnauld, C., Emery, K., and **S.E. Pilaar Birch**. Stable isotope analysis of white-tailed deer teeth as a paleoenvironmental proxy at the Maya site of La Joyanca, northwestern Peten. *Isotopes in Environmental and Health Studies* 55(4): 344-365. DOI: 10.1080/10256016.2019.1636047
- 2018 **Pilaar Birch, S.E.**, Scheu, A., Buckley M. and C. Çakırlar. Combined osteomorphological, isotopic, aDNA and ZooMS analyses of sheep and goat remains from Neolithic Ulucak, Turkey. *Archaeological and Anthropological Sciences*. DOI: 10.1007/s12520-018-0624-8*
- 2018 Marwick, B. and **S.E. Pilaar Birch**. A standard for the scholarly citation of archaeological data. *Advances in Archaeological Practice*. DOI: 10.1017/aap.2018.3 OA
- 2018 Rivera Araya, M.J. and **S.E. Pilaar Birch**. Stable isotope signatures in white tailed deer as a seasonal paleoenvironmental proxy: A case study from Georgia, United States. *Palaeogeography, Palaeoclimatology, Palaeoecology* 505:53-62. DOI: 10.1016/j.palaeo.2018.05.025
- 2018 **Pilaar Birch, S.E.** From the Aegean to the Adriatic: Exploring the Earliest Neolithic Island Fauna. *Journal of Island and Coastal Archaeology* 13(2):256-268. DOI: 10.1080/15564894.2017.1310774
- 2017 **Pilaar Birch, S.E.** and Vander Linden, M. A long hard road... Reviewing the evidence for environmental change and population history in the eastern Adriatic and western Balkans during the Late Pleistocene and Early Holocene. *Quaternary International* 465(B): 177-191. DOI:10.1016/j.quaint.2016.12.035
- 2017 Atici, L., **Pilaar Birch, S.E.**, and B. Erdoğan. Spread of Domestic Animals across Neolithic Western Anatolia and into Southeast Europe: New Zooarchaeological Evidence from Uğurlu Höyük, Gökçeada, Turkey. *PLOS ONE*. OA* DOI: 10.1371/journal.pone.0186519

- 2016 **Pilaar Birch, S.E.**, Miracle, P.T., Stevens, R.E. & T.C. O'Connell. Reconstructing late Pleistocene/early Holocene migratory behavior of ungulates using stable isotopes and its effects on forager mobility. *PLOS ONE* 11(6): e0155714. DOI: 10.1371/journal.pone.0155714. OA
- 2015 **Pilaar Birch, S.E.** & P.T. Miracle. Subsistence continuity, change, and environmental adaptation at the site of Nugljanska, Istria, Croatia. *Environmental Archaeology* 20(1):30-40. OA
- 2015 **Pilaar Birch, S.E.** Diversity and demographics of zooarchaeologists: Results from a digital survey. *Ethnobiology Letters* 6(2): 59-67. OA
- 2014 Çakırlar, C., Gourichon, L., **Pilaar Birch, S.E.**, Berthon, R., Akar, M., & A. Yener. Provisioning an urban center under foreign occupation: Zooarchaeological insights into the nature of Hittite presence in late 14th century BCE Alalakh. *Journal of Eastern Mediterranean Archaeology and Heritage Studies* 2(4): 259-276.
- 2013 **Pilaar Birch, S.E.** Using social media for research dissemination: The Digital Research Video Project. *Internet Archaeology* 35. OA.
- 2010 Zeder, M.A. & **S.E. Pilaar**. Assessing the reliability of criteria used to identify mandibles and mandibular teeth in sheep, *Ovis*, and goats, *Capra*. *Journal of Archaeological Science* 37: 225-242.

PEER REVIEWED BOOK CHAPTERS

- In press Hassett, B R., Wragg Sykes, R., **S.E. Pilaar Birch** and V. Herridge. "TrowelBlazers as a Noun and a Verb: Online Activism through Sharing Histories of Women in Archaeology," in Cobb, H. and K. Hawkins, *Documenting Activism, Creating Change: Archaeology and the Legacy of #MeToo*.
- 2023 Hassett, B R., Herridge, V., Wragg Sykes, R. and **S.E. Pilaar Birch**. "No Pay, Low Pay, and Unequal Pay: the TrowelBlazers perspective on the history of women in archaeology" in Lopez Varela, S.L. *Women in Archaeology: Intersectionalities in practice worldwide*. Springer.
- 2022 **Pilaar Birch, S.E.** and M. H. Veres. "Large scale data synthesis: A way forward for stable isotope analysis in zooarchaeology" in Sharpe, A. and Krigbaum, J. *Applications of Isotope Research in Zooarchaeology*. Gainesville: University Press of Florida.
- 2021 Metzger, M., Ridder, E., **Pilaar Birch, S.E.**, Falconer, S., and P. Fall. "Households, feasting, and community at a Middle Bronze village on Cyprus" in Daujat, J., Hadjikoumis, A., Berthon, R., Chahoud, J., Kassianidou, V., & Vigne, J.-D. (eds.) *Archaeozoology of Southwest Asia and Adjacent Areas XIII: Proceedings of the Thirteenth International Symposium, University of Cyprus, Nicosia, Cyprus, June 7-10, 2017 (Vol. 3)*. Lockwood Press. pp. 113-128. DOI: 10.2307/j.ctv2d7x51d.11
- 2020 Holdridge, G.A., Sarmiento F.O., **Pilaar Birch, S.E.**, et al. "Feeding Futures Framed: Feeding futures framed: rediscovering biocultural diversity in sustainable foodscapes" in Sarmiento, F.O. and Frolich, L. (eds.) *Elgar Companion to Geography, Transdisciplinarity and Sustainability*" London: Eduard Elgar.* DOI: 10.4337/9781786430106

- 2019 Hassett, B.R., Herridge, V.L., Wragg Sykes, R.M., & **S.E. Pilaar Birch**. “Activism from the Archives: Changing narratives to engage new communities” in Jameson, J.H. and Musteață, S. (eds.): *Transforming Heritage Practice in the 21st Century*. New York: Springer. pp. 399-413.
- 2018 **Pilaar Birch, S.E.** “Seasonal mobility and multispecies interactions in the Mesolithic northeastern Adriatic.” in S.E. Pilaar Birch (ed.), *Multispecies Archaeology* pp. 310-332. Archaeological Orientations Series. London: Routledge.
- 2017 **Pilaar Birch, S.E.** “Neolithic subsistence at Vela Špilja on the island of Lošinj, Croatia” P. Rowley-Conwy, D. Serjeantson and P. Halstead (eds.), *Economic Zooarchaeology: Studies in Hunting, Herding and Early Agriculture*. Oxford: Oxbow. pp. 263-268.
- 2017 **Pilaar Birch, S.E.** & P.T. Miracle. “Human response to climate change in the Northern Adriatic during the late Pleistocene and early Holocene” in G. Monks (ed.), *Climate Change and Human Responses: A Zooarchaeological Perspective*. Vertebrate Paleobiology and Paleoanthropology Series. New York: Springer. pp. 87-100.
- 2017 Hassett, B.R., **Pilaar Birch, S.E.**, Herridge, V.L., & R.M. Wragg Sykes. “TrowelBlazers: Accidentally crowd-sourcing an archive of women in archaeology.” Apaydin, V. (ed.) *Shared Knowledge, Shared Power. Engaging Local and Indigenous Heritage*. New York: Springer.
- 2016 Leppard, T.P. and **S.E. Pilaar Birch**. “The insular ecology and palaeoenvironmental impacts of the domestic goat (*Capra hircus*) in Mediterranean Neolithization” in *Géoarchéologie des îles de la Méditerranée*, edited by M. Ghilardi, F. Leandri, J. Bloemendal, L. Lespez, and S. Fachard. Paris: CNRS Editions Alpha. pp. 47-56.
- 2013 Herridge, V., Wragg Sykes, R., Hassett, B. & **S.E. Pilaar Birch**. “A splendid regiment of women’: 20th century archaeologists and palaeontologists” in S. Charman-Anderson (ed.), *A Passion for Science: Stories of Discovery and Invention*. London: Finding Ada.

EDITED BOOKS

- 2018 **Pilaar Birch, S.E.** (ed.) *Multispecies Archaeology*. Archaeological Orientations Series. Series Editors: G. Lucas and C. Witmore. New York: Routledge. Reviews: American Antiquity, European Journal of Archaeology, Canadian Journal of Archaeology, Archaeological Review from Cambridge
- 2018 Çakırlar, C., Berthon, R., Chahoud, J. & **S.E. Pilaar Birch** (ed.) *Archaeozoology of the Near East XII*. Proceedings of the 12th International Symposium of the ICAZ Archaeozoology of Southwest Asia and Adjacent Areas Working Group, Groningen Institute of Archaeology, June 14-15 2015, University of Groningen, the Netherlands. Groningen: Barkhuis.

BOOKS

- In revision **Pilaar Birch, S.E.** *Adaptation and Resilience in Human Prehistory* (working title). Princeton University Press. (c. 70,000 words)
- In revision **Pilaar Birch, S.E.** *Animal Bone Detectives: The Hidden Science of Zooarchaeology*. MIT Kids Press (Candlewick). (c. 30,000 words)

BOOK REVIEWS

- 2018 **Pilaar Birch, S.E.** Review of “Isotopic Investigations of Pastoralism in Prehistory” by A.R. Ventresca Miller & C.A. Makarewicz (ed.). *Antiquity*.
- 2017 **Pilaar Birch, S.E.** Review of “Applied Zooarchaeology: Five Case Studies” by S. Wolverton, L. Nagaoka & T.C. Rick. *American Antiquity* 82(1):190-191.
- 2015 **Pilaar Birch, S.E.** Review of “The Archaeology of Mesoamerican Animals” by C.M. Götz & K.F. Emery (ed.). *Anthropocene* 9:75-76.
- 2015 **Pilaar Birch, S.E.** Review of “If Women Have Courage...Among Shepherds, Sheikhs, and Scientists in Algeria” by D. L. Pond. *Azania: Archaeological Research in Africa* 50(2):259-264.
- 2011 **Pilaar Birch, S.E.** Review of “Written in Stone” by B. Switek. *Archaeological Review from Cambridge* 26(1): 167-170.
- 2010 **Pilaar Birch, S.E.** Review of “The Bone Readers: Science and Politics in Human Origins Research” by C. Tuniz, R. Gillespie, & C. Jones. *Archaeological Review from Cambridge* 25(2): 182-184.

EDITED VOLUME INTRODUCTIONS

- 2018 **Pilaar Birch, S.E.** “Multispecies Archaeology: Integrating theory, method, and practice” in S.E. Pilaar Birch (ed.), *Multispecies Archaeology*. Archaeological Orientations Series. London: Routledge. pp. 1-7.
- 2015 Herridge, V., **Pilaar Birch, S.E.** & M. Law. “Open Quaternary: A new, open access journal for Quaternary research” *Open Quaternary* 1: 1-2. DOI: 10.5334/oq.ad. OA.
- 2013 **Pilaar Birch, S.E.** “Stable isotopes in zooarchaeology” *Archaeological and Anthropological Sciences* 5: 81-83. DOI: 10.1007/s12520-013-0126-7.
- 2011 Wallduck, R. and **S.E. Pilaar Birch**. “Archaeology and economic crises” *Archaeological Review from Cambridge* 26(1): 1-6.

COMMENTARY

- 2019 Khider, D., Emile-Geay, J. (and 89 others, including **S.E. Pilaar Birch**). “PaCTS v1.0: A Crowdsourced Reporting Standard for Paleoclimate Data.” *Paleoceanography and Paleoclimatology*. <https://doi.org/10.1029/2019PA003632> OA
- 2017 Pauli, J.N., Newsome, S.D. (and 25 others, including **S.E. Pilaar Birch**). “Why we need a centralized repository for isotopic data” *Proceedings of the National Academy of Sciences* 114(12): 2997-3001. DOI:10.1073/pnas.1701742114. OA
- 2015 **Pilaar Birch, S.E.** and R.W. Graham. 2015. “A stable isotope data repository as part of Neotoma, a paleoecological database” *BioScience* 65(10): 953. DOI: 10.1093/biosci/biv133. OA
- 2015 **Pilaar Birch, S.E.** 2015 Commentary on “From blogs to books: Blogging as community, practice, and platform” by W. Caraher and A. Reinhard. *Internet Archaeology* 39. DOI: 10.11141/ia.39.7.com1. OA.

REPORTS

- 2016 Williams, J., Grimm, E., Ashworth, A., Betancourt, J., Blois, J., Booth, R., Bradshaw, R., Buckland, P., Charles, D., Curry, B., Davis, E., Giesecke, T., Goring, S., Graham, R., Latorre, C., Nichols, J., **Pilaar Birch, S.E.**, & A. Smith. Neotoma Paleoecology Database Data Use and Embargo Policy. [http://www.neotomadb.org/data/category/use]

- 2012 Haruda, A., **Pilaar Birch, S.E.** & A. Outram. “The Animal Bones” in E. Lightfoot et al., *Archaeological Investigations of a Pit House and Other Features at Botai, Kazakhstan*. Excavation report.

EDITORIAL CONTRIBUTIONS

- 2022 Invited Editor, *Proceedings of the National Academy of Sciences* Special Feature “Recent Advances in Archaeological Science Techniques” Volume 43.
- 2020- Editorial Board Member, *Elements in Environmental Archaeology*. Cambridge University Press.
- 2018 Editor, Chapter 1, “The Searchers: The History of Archaeology” in Renfrew, C. and P. Bahn. 2018. *Archaeology: Theories, Methods, and Practice* 8th Edition. London: Thames & Hudson.
- 2017-2018 Editor, *Open Quaternary* Special Issue on Stable Isotopes in Zooarchaeology
- 2016 Editor, Online Supplementary Material for Renfrew, C. and P. Bahn. 2016. *Archaeology: Theories, Methods, and Practice* 7th Edition. London: Thames & Hudson.
- 2015-2016 Associate Editor, *The Scholar* Magazine for Gates Cambridge Alumni
- 2014- Joint Editor-In-Chief, *Open Quaternary*
- 2012-2013 Guest Editor, *Archaeological and Anthropological Sciences* Volume 5, Issue 2 Integrating Zooarchaeology and Stable Isotope Analyses
- 2012 General Editor, *Archaeological Review from Cambridge*
- 2011 Guest Editor, *Archaeological Review from Cambridge* Volume 26, Issue 1 Archaeology and Economic Crises

SCHOLARSHIPS, AWARDS, AND FELLOWSHIPS

- 2024-2026 Administrative Fellow in Inclusive Excellence, Franklin College, UGA (\$12,000)
- 2023 M.G. Michael Award (\$3,000)
- 2022 Faculty Fellow in Open Science (\$2,500)
- 2021 Willson Center Research Fellowship (competitive, semester-long course release)
- 2019-2020 Student Technology Fee Funding (\$10,000)
- 2019-2020 Provost’s Affordable Course Materials Grant (\$5,000)
- 2017-2018 Southeastern Conference Faculty Travel Award (\$1,000)
- 2017 Faculty Leadership Institute Fellow, University of Georgia
- 2015 President’s Venture Fund, University of Georgia (\$5,000)
- 2015 Sarah H. Moss Fellowship, Center for Teaching and Learning, UGA (\$3,625)
- 2015-2017 Lilly Teaching Fellowship, Center for Teaching and Learning, UGA (\$2,000)
- 2015 Finalist, Shorty Award in Science (for TrowelBlazers)
- 2014 Online Learning Fellow, Franklin College, University of Georgia (\$5,000)
- 2014, 15, 16 Foreign Travel Assistance Program Grant, OVPR, University of Georgia (\$6,120)
- 2013 Salomon Grant for curricular development, Brown University (\$500)
- 2011 Cambridge School of Humanities and Social Sciences Conference Fund (£1,000)
- 2011, 2012 Robert J. Sloley Travel Fund, St John’s College, Cambridge University (£1,660)
- 2011, 2012 Dorothy Garrod Travel Fund, Dept. of Archaeology, Cambridge University (£155)
- 2011 Student Travel Award, Christian Albrechts Universitat zu Kiel (€500)
- 2010 English Heritage conference travel funding, English Heritage (£150)
- 2009 Benefactors’ Scholarship, St John’s College, Cambridge University (£1,200)
- 2009 Cambridge European Trust Travelling Scholarship, Cambridge University (£300)
- 2008-2012 Learning and Research Fund, St John’s College, Cambridge University (£2,000)
- 2007 Research Training Program, Smithsonian Institution (\$3,000)
- 2007 Cook College Parents’ Association Class Scholarship, Rutgers University (\$500)
- 2006-2008 Bigel Anthropology Award, Dept. of Anthropology, Rutgers University (\$2,000)
- 2006-2008 Aresty Research Center for Undergraduates Grantee, Rutgers University (\$650)

2006-2008 Phillip J. Alampi Scholarship, Rutgers University (\$6,000)
 2006 Karen Smoyak-Hoffman Student Award, Rutgers University (\$1,000)

TEACHING

University of Georgia

2014- Course instructor of record
 Undergraduate only

- Old World Archaeology (Anthropology)
- Resources, Society, and the Environment (Geography)(in person/online)
- Digital Dimensions of Archaeology (Anthropology/Geography)(online)
- Georgia Museum of Natural History Internship

Graduate only

- Seminar in Geomorphology (Geography)
- Seminar in Paleoenvironment (Geography)
- Seminar in Archaeology (Anthropology)
- Seminar in Human Ecosystems Evolution (Anthropology)

Undergraduate/Graduate

- Foraging to Farming (Anthropology)
- Environmental Archaeology (Writing Intensive Program) (Anthropology)
- Global Environmental Change during the Quaternary (Geography)
- Molecular Past (Anthropology)
- Zooarchaeology/Special Topics in Zooarchaeology (Anthropology)

Joukowsky Institute for Archaeology & the Ancient World, Brown University

2013-2014 Course instructor of record

- Animals in Archaeology (upper undergraduate)
- Revolutions and Evolutions in Archaeology (lower undergraduate)
- Environmental Archaeology (undergraduate/graduate course)

2013-2014 Undergraduate research supervisor and mentor

- Raquel Bryant, Undergraduate Teaching and Research Awardee

2013 Online Video Demonstrator, "Archaeology's Dirty Little Secrets" MOOC

Department of Archaeology and Anthropology, University of Cambridge

2010-2012 Practical instructor, undergraduate and graduate

- Introduction to Archaeological Practice, Archaeological Science I, Archaeological Science, Zooarchaeology

2010-2012 Course supervisor

- Time and Dating, Archaeological Fieldwork, Caves, Death and Burial, Part 1 Archaeology and Anthropology, Conceptual Basics, Material Culture

Oxbridge Academic Programs, Cambridge

2010-2012 Course instructor of record

- Ancient Civilizations
- Disease and Disaster: Crises in Human History

Rutgers University

2005-2007 Writing tutor, Douglass Writing Center

- Basic Composition, Expository Writing, Research in the Disciplines

2005 Peer tutor, Rutgers Learning Center

- Economics, People, and the Environment

STUDENT ADVISING

Advisor

2025-	Annabelle Hartley (M.A., Anthropology)
2024-	Atticus Tomcho (M.Sc., Geography; NSF Graduate Research Fellowship)
2024-	Sarieh Amiribeirami (Ph.D., Anthropology) (international student, Iran; UGA Presidential Fellowship)
2023-	Tuğçe Yalçın (Ph.D., Anthropology) (international student, Turkey)
2022-2023	Alexandra Bonham <i>Sub-annual variation of $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ in <i>O. virginianus</i> tooth enamel: paleoclimate and diet reconstruction in the lower Chattahoochee River Valley at the onset of the Little Ice Age</i> (M.Sc., Geology)
2021-2023	McKenna Waite <i>Stable isotope signatures in elk teeth, <i>Cervus elaphus canadensis</i>: implications for paleoenvironment and archaeology</i> (M.A., Anthropology)
2018-	Matthew Veres, <i>Human response to long-term climate and environmental variability: faunal and isotopic analyses at the Alm Shelter, Wyoming over 12,000 years.</i> (M.A., Anthropology; Graduate Research Assistantship)
2015-2017	María José Rivera Araya, <i>Assessing stable isotope data from archaeological white-tailed deer remains as a paleoenvironmental proxy at the site of La Joyanca, Northwestern Petén, Yucatán Peninsula</i> (M.Sc., Geography; Fulbright) (international student, Costa Rica)

Committee Membership

2025-	Maggie Glancy (M.A., Religion)
2024-2025	Sophie Forbes, <i>Examining 5,000 years of harvest patterns of the Eastern Oyster via sclerochronology on Ossabaw Island, Georgia</i> (M.Sc., Anthropology)
2023-	Faith Macdonald (Ph.D., Anthropology)
2023-	Alina Karapandzich (Ph.D., Anthropology)
2020-2021	Emily Niederman, <i>Evidence of Abrupt Hydroclimate and Environmental Change in the Garwhal Himalaya, India</i> (M.Sc., Geography)
2017-2019	Christopher Stephen Cooper, <i>A Multi-proxy Reconstruction of Late Holocene Fire Regimes, Snake Range, Nevada, USA</i> (M.Sc., Geography)
2017-2018	Cullen Lapointe, <i>An Evaluation of the Effects of a Rapidly Changing Miocene Climate on the Growth and Stable Isotopic Ecology of the Scallop <i>Chesapecten nefreus</i></i> (M.Sc., Geology)
2016-2020	Kelly Cronin, <i>Effects of Sea Ice on the Growth and Shell Chemistry of the Antarctic Scallop and Ecosystem Engineer, <i>Adamussium colbecki</i></i> (Ph.D., Geology)
2015-2021	Katharine Napora, <i>Refining Cultural and Environmental Temporalities at the Late Archaic – Early Woodland Transition on the Georgia Coast, USA</i> (Ph.D., Anthropology)
2015-2020	Isabelle Holland Lulewicz, <i>Localized Histories of Calusa Ecology and Economy, Southwestern Florida, AD 1000-1500</i> (Ph.D., Anthropology)
2015-2020	Danielle Haskett, <i>Climatic and Environmental Change in the Colorado Rocky Mountains during the late Quaternary: A paleolimnological approach</i> (Ph.D., Geography)
2015-2018	Jiaying Wu, <i>Lake Sediment Records of Holocene Paleoclimate and Environmental Change in Costa Rica: Evidence from Sediment Geochemistry, Charcoal, and Insect Fauna</i> (Ph.D., Geography)

Georgia Museum of Natural History Undergraduate Interns

2023-2024	Abigail Byrd, Annaleah Blanco Seufert
2022-2023	Kara Henderson, Jaylin Knight, Savannah Chruszcz
2021-2022	Anna Reid, Susanna Teske, Shelby Linton
2019-2020	Vandana Krishnan, Temi Faokunla, Merlena Kenson
2018-2019	Grant Sherwood, Megan McPherson, Many Kothapalli, Weiwei Zhan, Liz Johnson
2016-2017	Janae Lunsford, Laura Dupont, Morrison Nolan, Shelby Watts, Joshua Glass
2015-2016	Onyale Donloe, Rubi Rodriguez, Jessica Mintz, Hannah Trader, Jonah Buxton

CURO and Independent Student Supervision

2025	Richard Little (CURO Summer Research Fellow)
2024-2025	Yeongseo Son (independent study), Richard Little (CURO)
2023-2024	Maxwell Davis (CURO Summer Research Fellow), Savannah Chruszcz (CURO), Yeongseo Son (independent study)
2022-2023	Hailey Reed (CURO), Libby Garrett (YoungDawgs)
2021-2022	Claire Brandes (CURO)
2020-2023	Natalie Moss (CURO and Senior Honors Thesis)
2019-2020	Megan McPherson (CURO, independent study); Emily Fore (CURO)
2018-2019	Mary Fuller (independent study)

Exchange Students, Visiting Researchers, and External Committee Membership

2021-2025	Melina Seabrook, Harvard University, External Committee Member
2019, 2020	Steven Porson, University of North Carolina-Charlotte, Visiting Researcher
2019	Dr. Sinisa Radovic, Croatian Academy of Arts and Sciences, Visiting Researcher
2018	Jo-Hannah Plug, University of Liverpool, UGA-Liverpool Exchange Program

CONFERENCE AND WORKSHOP PARTICIPATION

* indicates invited paper or participation. Student coauthors are underlined.

2025	Franklin College and UGA representative, Future World Changers in the Academy conference. Arlington, VA, USA.
2024	Invited participant, Ethical Open Science for Past Global Change Data Workshop 2, Menominee Indian Tribe Reservation, Keshena, WI*
2024	Invited Discussant, “New Lives for Old Bones: New Approaches to the Zooarchaeology of Heritage Collections”. Society for American Archaeology. Forum. New Orleans, LA, USA.*
2024	“Neolithic to Bronze Age Human Impact on Island Landscapes and Faunal Communities: Exploring the Wild/Domestic Dichotomy” Society for American Archaeology. Paper. New Orleans, LA, USA.*
2023	“Isotopes, Diet, and Mobility at Alişar Höyük, Türkiye” Invited presentation for “Genomes, Migrations, and Culture in the Early Civilizations of the Middle East”, Neubauer Collegium, University of Chicago, IL, USA*
2023	“Herd management and mobility at the Early-Middle Bronze Age Transition in the Southern Levant”. ASOR. Paper. Chicago, IL. *
2023	“Stable Isotope Analysis in Zooarchaeology: Past, Present, and Future” International Council for Archaeozoology. Paper. Cairns, Australia*
2023	“Evaluating the Applicability of Cervid Teeth as Terrestrial Climate Proxies: Reflections on Modern Case Studies and Archaeological Examples” International Council for Archaeozoology. Paper. Cairns, Australia

- 2023 Invited participant, Ethical Open Science for Past Global Change Data Workshop 1, Biosphere 2, Oracle, AZ.*
- 2023 “Stable Isotopes at Başur Höyük, Türkiye” Radical Death Project Meeting, Institute of Archaeology, University College London, UK.*
- 2023 “Growing the Faunal Isotopes Database” Neotoma Paleoecology Database All-Hands Virtual Meeting, April 17-20*
- 2023 “Stable Isotope Signatures in Elk Teeth, *Cervus elaphus canadensis*: Implications for Paleoenvironment and Archaeology.” Poster with McKenna Waite. SAA.
- 2022 “Sub-annual variation of stable oxygen isotopes in *O. virginianus* tooth enamel as a proxy for seasonality: A case study from Singer Mound, Georgia” Poster with Alexandra Bonham. Geological Society of America. DOI: 10.1130/abs/2022AM-381577
- 2022 “A ground-truthed bioavailable Strontium map for archaeological research in Turkey” ASOR. Paper. Virtual conference.*
- 2022 “Data integration and synthesis in zooarchaeology” The Future of Past Animals: Global Perspectives in Zooarchaeology. International Committee Meeting, International Council for Archaeozoology. Paper. Stockholm, Sweden. *
- 2022 “Using Stable Isotope Analysis of Archaeological Remains to Reconstruct Past Climate Change” Groundcheck: Climate, Crisis, Archaeology, International Conference of the Federal Foreign Office and the German Archaeological Institute (DAI). Paper. Berlin, Germany. Virtual participation.*
- 2022 “Bronze Age landscape use and herding practices at Politiko-Troullia, Cyprus” 3rd International Congress on Archaeological Sciences in the Eastern Mediterranean and the Middle East (ICAS-EMME 3). Paper. Nicosia, Cyprus. Virtual participation.
- 2020 “Stable Isotope Analysis of Middle Bronze Age Animal Remains from Politiko-Troullia, Cyprus”. ASOR. Paper. Virtual conference.*
- 2020 “Mobilizing Faunal Isotope Data within the Neotoma Paleoecology Database”. Geological Society of America. Paper. Virtual conference. *
- 2019 “Women and Power? From Conversation to Action”. Panelist. Theoretical Archaeology Group. London, UK.*
- 2019 “Best Practices in Digital Archaeology”. Discussant. ASOR. San Diego, CA.*
- 2019 “Stable Isotope Insights into Radical Death and Early State Formation in the Ancient Near East: Preliminary Results from Başur Höyük, Siirt, Turkey”. ASOR. Paper. San Diego, CA.*
- 2019 Invited participant, FuTRES Database Workshop, University of Oregon, USA*
- 2019 Invited participant, IsoBank Database Workshop, University of Wisconsin-Madison, USA*
- 2019 “The Importance of Direct Dating Archaeological Remains in Multiproxy Paleoenvironmental Reconstruction”. Radiocarbon. Paper. Athens, GA, USA.
- 2019 “Spatial and Temporal Diversity in Stable Isotope Studies of Archaeological Material”. Society for American Archaeology. Paper. Albuquerque, NM, USA.*

- 2019 “Archaeology and Stable Isotope Ecology of the Passenger Pigeon: Tracing the Prehistory of an Extinct Bird” Society for American Archaeology. Paper with T. Cregg Madrigal. Albuquerque, NM, USA.
- 2019 “Using the Neotoma Paleoecology Database for Specimen Level Stable Isotope Data”. Society for American Archaeology. Poster with Matthew Veres et al. Albuquerque, NM, USA.
- 2019 Invited participant, Neotoma Workshop. University of Minnesota, MN, USA.*
- 2018 “An isotopic approach to regional dynamics of Neolithization in Western Anatolia and the Aegean”. ASOR. Paper. Denver, CO.*
- 2017 Invited participant, ZooArchNet Database Workshop, University of Florida, USA*
- 2017 “A New Stable Isotope Data Repository in Neotoma, a Paleoecological Database” Society for American Archaeology. Paper. Vancouver, BC, Canada*
- 2017 “Assessing stable isotope data from archaeological white-tailed deer (*Odocoileus virginianus*) remains as a paleoenvironmental proxy at the site of La Joyanca, northwestern Petén, Yucatán Peninsula” Society for American Archaeology. Paper with M.J. Rivera Araya. Vancouver, BC, Canada*
- 2016 “Integrating Zooarchaeological and Stable Isotope Evidence from Uğurlu Höyük, Gökçeada, Turkey”. American Schools of Oriental Research. Paper. San Antonio, TX, USA.*
- 2016 Invited participant, ICAZ International Committee Meeting, Zhengzhou, China.
- 2016 “A Stable Isotope Data Repository as part of Neotoma, a Paleoecological Database”. IsoBank Workshop. Paper. La Joya, NM, USA.*
- 2016 “From the Aegean to the Adriatic: Exploring the Neolithization of Islands” Society for American Archaeology. Paper. Orlando, FL, USA.*
- 2016 “When did the Anthropocene really begin? An archaeological perspective” American Association of Geographers. Paper. San Francisco, CA, USA.*
- 2016 “Seasonality and Herd Management at Neolithic Ulucak, Turkey” Stable Isotopes in Zooarchaeology Working Group Meeting. Paper. Athens, GA, USA.
- 2016 “Reconstructing species-level migratory behavior and its implications for prehistoric human mobility” Reconstructing Prehistoric Hunter-Gatherer Mobility Workshop. Paper. University of Montreal, QC, Canada.
- 2015 “Neotoma and Isotopes, Perfect Together: Building a Stable Isotope Data Repository as part of the Neotoma Paleoecology Database” 2015 Neotoma Workshop. Paper. UC Berkeley, CA, USA.*
- 2015 “Establishing long-term trends in species-level migratory behavior: its effect on prehistoric human mobility and application to modern management strategies” XIX INQUA Meeting. Paper. Nagoya, Japan.
- 2015 “Herding Sheep, Flocking Goats: A multiproxy approach to reconstructing Neolithic and Chalcolithic animal mobility at the site of Ulucak, Turkey” 12th Archaeozoology of Southwest Asia Meeting. Groningen, Netherlands.*
- 2015 “Reconstructing human-mediated environmental change at the Pleistocene-‘Anthropocene’ transition” American Association of Geographers. Paper. Chicago, IL, USA.

- 2015 “Multispecies Archaeology” Society for American Archaeology. Paper. San Francisco, CA, USA.
- 2014 “The Oxygen Isotope Ecology of Animal Migration in Prehistory” International Council for Archaeozoology. Paper. San Rafael, Argentina.
- 2014 “Modern Datasets for Archaeologically-Linked Paleoclimate Reconstruction” International Council for Archaeozoology. Paper. San Rafael, Argentina.
- 2014 “Demographics in Zooarchaeology” 12th Conference of the International Council for Archaeozoology. Poster. San Rafael, Argentina.
- 2013 “Topics in Cyberinfrastructure I: Scholarship in the 21st Century, A Panel Discussion”. Panelist. ASOR. Baltimore, MD.*
- 2013 “Social Media and Digital Research Videos” Society for American Archaeology. Poster. Honolulu, HI.
- 2013 “The Digital Research Video Project” Social Media Knowledge Exchange Conference. Paper. University of Cambridge, UK.*
- 2013 “Exploring the Emotional Ecology of Humans and Herds” Mellon Sawyer Seminar: Building the Extended Society. Paper. Brown University, RI.*
- 2012 “The Mesolithic-Neolithic Transition as seen from Zooarchaeology and Stable Isotope Analyses” Bridging the European and Anatolian Neolithic (BEAN) Workshop. Paper. University of Belgrade, Belgrade, Serbia.*
- 2012 “A Time of Feast or Famine? Clues from the Butchery Evidence at Nugljanska Cave, Istria, Croatia” 2nd ICAZ Taphonomy Working Group Meeting. Paper. University of Cantabria, Spain.
- 2012 “Reconciling Zooarchaeology and Stable Isotope Analysis: The view from Istria” Integrating Zooarchaeology and Stable Isotope Analyses. Paper. University of Cambridge, UK.
- 2012 “Human Response to Environmental Change in the Early Holocene: The view from Istria” Where the Wild Things Are: Recent Advances in Palaeolithic and Mesolithic Research. Paper. Durham University, UK.
- 2012 “The Seasonal Round: Resource availability and human mobility in Mesolithic Istria, Croatia” Lecture, Palaeolithic-Mesolithic Discussion Group, Department of Archaeology, University of Cambridge, UK.
- 2011 “Changing Climate, Changing Landscapes, Changing Mobility: Human response to fluctuating resource availability at the Pleistocene-Holocene transition in the Northern Adriatic” Socio-Environmental Dynamics over the Last 12,000 Years. Paper. Christian Albrechts University zu Kiel, Germany.
- 2011 “Reconciling Seasonal Data from Zooarchaeological and Stable Isotope Analyses: A case study from the Northern Adriatic” Society for American Archaeology. Paper. Sacramento, CA.
- 2010 “Human Response to Climate Change in the Northern Adriatic During the Late Pleistocene and Early Holocene” Climate Histories: Communicating knowledge of environmental change. Paper. Cambridge, UK.

- 2010 “Neolithic Subsistence at Vela Špilja on the Island of Lošinj, Croatia” International Council on Archaeological Science in the Eastern Mediterranean and Near East. Paper. Paphos, Cyprus.
- 2010 “Dietary Diversification and Seasonal Mobility as Possible Responses to Climate Change and Sea Level Rise in the Istrian Peninsula and Kvarner Gulf of Croatia in the Late Pleistocene and Early Holocene” International Council for Archaeozoology. Paper. Paris, France.
- 2009 “Vela Špilja Lošinj and Holocene Climate Change” Pre-Modern Climate Change: Causes and Human Responses. Paper. University of Copenhagen, DK.
- 2008 “Sheep and Goat Domestication in the Eastern Fertile Crescent: The application of dental aging techniques to documenting the transition from hunting to herding” Society for American Archaeology. Paper. Vancouver, Canada.
- 2007 “The Impact of Ecological & Cultural Tourism on Archaeological Sites in the Yucatan Peninsula, Mexico” Aresty Research Center for Undergraduates Research Symposium. Poster. Rutgers University, NJ.
- 2006 “Independent Analysis of Taphonomic Processes on Flamingo Bone from Lake Natron, Tanzania and Lake Nakuru, Kenya.” Aresty Research Center for Undergraduates Research Symposium. Poster. Rutgers University, NJ.

INVITED LECTURES

- 2024 “To La Muculufa, and Back Again: Reinvestigating a Bronze Age Sanctuary and Village” Joukowsky Institute for Archaeology and the Ancient World, Brown University, Providence, RI, USA
- 2023 “Advancing Archaeological Science Through Interdisciplinary Data Synthesis” School of Geography, Earth and Atmospheric Sciences, University of Melbourne, Melbourne, Australia
- 2022 “TrowelBlazers: Uncovering New Networks” on “Diggin In: Digital Conversations with Archaeologists” Season 5, Episode 6. R.S. Peabody Institute of Archaeology and Massachusetts Archaeological Society (virtual)
- 2022, 2024 “Isotopes in Archaeology” SPATIAL Short Course, Department of Geology, University of Utah, Salt Lake City, Utah
- 2021 “Specimen-level vertebrate data and faunal isotopes in the Neotoma Paleoecology Database” Department of Archaeology, Max Planck Institute for the Science of Human History, Jena, Germany (virtual)
- 2021 “Herding across the Landscapes of Bronze Age Cyprus: the view from Politiko-Troullia” Department of Anthropology and Geography, Louisiana State University, Baton Rouge, LA (virtual)
- 2020 “Radical Death at Başur Höyük, Turkey: Insights from Isotopic Analysis” Department of Anthropology, Harvard University, Boston, MA (virtual).
- 2020 “Stable isotope data from herbivore teeth as paleoenvironmental proxies” Department of Geosciences, Georgia State University, Atlanta, GA
- 2019 “Zooarchaeological stable isotope datasets for Neolithic Anatolia: a regional synthesis” Department of Archaeology, Simon Fraser University, BC, Canada.

- 2018 “The isotope paleoecology of Pleistocene mammals from Ghar Dalam, Malta” Department of Geology, University of Georgia, Athens, GA.
- 2018 “Isotopic insights into the zooarchaeology of Neolithic Yenikapı, Turkey” Center for the Study of Human Origins at New York University, NY.
- 2018 “Dwarf deer and pygmy hippos: The isotope paleoecology of Pleistocene mammals from Ghar Dalam, Malta” Department of Geology, University of Alabama, Tuscaloosa, AL.
- 2016 “TrowelBlazers: Women in Archaeology and the Earth Sciences” Institute for Women’s Studies, University of Georgia, Athens, GA.
- 2016 “A New Terrestrial Climate Proxy? Evaluating the Stable Isotope Analysis of Herbivore Teeth” Department of Geology, University of Georgia, Athens, GA.
- 2014 “At the Crossroads: Climate Change, Sea Level Rise, and Seasonal Mobility at the Dawn of Agriculture in Europe” Department of Geology and Geography, Georgia Southern University, GA.*
- 2014 “Navigating a Warming World: Climate and Cultural Transitions at the Pleistocene-Holocene Boundary” Lecture, Capita Selecta Lecture Series, Institute of Archaeology, University of Groningen, Netherlands.
- 2013 “Tales from the Crypt: Teeth as Archaeologically Linked Proxies for Paleoenvironment” Lecture at the Rutgers Climate Institute/Center for Human Evolutionary Studies, Rutgers University, NJ.
- 2013 “Carbon Counts in Archaeological Paleoenvironmental Reconstruction” Lecture in Department of Archaeology, Boston University, MA.
- 2013 “Following the Herd? Seasonality and Human Mobility at the Pleistocene-Holocene Transition” Lecture at the Department of Anthropology, University of Connecticut, CT.
- 2013 “Stable Isotope Analysis of Animal Teeth as an Archaeologically-Linked Terrestrial Climate Proxy” Lecture at the Department of Geological Sciences (Earth Systems History), Brown University, RI.

CONFERENCES AND SESSIONS ORGANIZED

- 2024 “Creating FAIR and CAREing Zooarchaeological Data: Challenges and Solutions” Organizer and Moderator with M. LeFebvre and S. Kansa. Society for American Archaeology, New Orleans, LA, USA.
- 2023 “Challenges and Solutions in Creating FAIR and CAREing Zooarchaeological Data” with K. Emery, M. Lefebvre, N. Fuller, J. Green. ICAZ, Cairns, Australia
- 2023 “Geochemical Analyses of Zooarchaeological Remains for Climate, Seasonality, Dietary, and Mobility Reconstructions” with A. Prendergast, P. Vaiglova, and M. Burchell. ICAZ, Cairns, Australia.
- 2020 “Faunal Isotopes Database Webinar”. Two-hour virtual workshop on data entry.
- 2016 “Data Management and New Directions” ICAZ Stable Isotopes in Zooarchaeology Working Group Meeting. Conference organizer. University of Georgia.
- 2016 “Reconstructing Prehistoric Hunter-Gatherer Mobility” Workshop. Meeting co-organizer. University of Montreal, Quebec, Canada.
- 2015 “The Isotope Ecology of Migration”. Session organizer and chair. International Union for Quaternary Research XIX Meeting, Nagoya, Japan.

- 2015 “Applications of Theory in Archaeological Analyses”. General session chair. Society for American Archaeology. San Francisco, California, USA.
- 2012 “Integrating Zooarchaeology and Stable Isotope Analyses”. Conference organizer and chair. McDonald Institute for Archaeological Research, University of Cambridge, UK
- 2011 “Seasonality in Prehistory: New Methods for Addressing an Old Question” Session organizer and chair. Society for American Archaeology. Sacramento, CA.
- 2010 “Island Zooarchaeology” Session organizer and chair. International Congress on Archaeological Science in the Eastern Mediterranean and Near East, Paphos, CY

PROFESSIONAL EXPERIENCE

- 2010-2011 **Research Assistant, Land, Water & Settlement Project, Cambridge**
Database management and digital mapping of pre-and proto-historic sites in Northwest India using ArcGIS.
- 2007-2008 **Research Assistant, Center for Human Evolutionary Studies, Rutgers**
Assisted in organizing the 2008 Koobi Fora Field School, Kenya and carried out research database management and data archiving.
- 2007 **Intern, Smithsonian Institution National Museum of Natural History**
Washington, D.C. Research Training Program for Undergraduates.
- 2006 **Intern, Collections, American Museum of Natural History**
New York. Mexican and Central American archaeological collections.

OUTREACH

MAINSTREAM MEDIA MENTIONS AND INTERVIEWS

- 2024 Quoted in New Scientist, “[Forests became less diverse when ancient people started herding pigs](#)”.
- 2023 Quoted in Discover Magazine, “[Beavers Played an Important Part in the Lives of Ancient Humans](#)”.
- 2023 Interviewed for Videnskab.dk (Science Denmark), “[Ravens feasted on humans’ mammoth steak 29,000 years ago](#)”.
- 2022 Interviewed for NPR’s [All Things Considered](#) (radio).
- 2021 Interviewed and quoted for NPR (print). “[Four of the biggest archeological advancements of 2021 — including one 'game changer'](#)”.
- 2021 Quoted in Science News. “[Radiometric dating puts pieces of the past in context. Here’s how.](#)”
- 2019 Interviewed for WUGA Radio, Classic City Science segment, October.
- 2019 Quoted in Archaeology Magazine. “[You say what you eat](#)”.
- 2018 Real Clear Life. “[Digging Into Archaeology’s Overlooked History](#)”.
- 2018 Daily Mail. “[Bronze Age Children Sacrificed in Turkey Unearthed in Ancient Tomb](#)”.
- 2018 Smithsonian Magazine. “[The Many Ways Women Get Left Out of Paleontology](#)”.
- 2018 Interviewed for UGA student newspaper The Red & Black. “[Scientist of the Week: Suzanne Birch combines anthropology and geography in her daily studies](#)”.
- 2018 UGA Research Magazine. “[Suzanne Pilaar Birch: TrowelBlazer](#)”.
- 2018 Quoted in Hyperallergic. “[The Casual Colonialism of Lara Croft and Indiana Jones](#)”.
- 2018 Quoted in Hyperallergic. “[Researcher Makes Controversial Allegation of Archaeological Fraud at Renowned Turkish Site](#)”.
- 2018 Interviewed for Nature. “[A guide to juggling fieldwork and pregnancy](#)”.

- 2018 Featured in the kindergarten book, “What Does a Scientist Look Like?” developed by UC Berkeley [Learning Design Group](#) and Amplify Science.
- 2017 Quoted in Science. “[Why was this 16th century Scottish village buried in sand?](#)”
- 2017 Interview and profile on the Gates Cambridge website. “[Trailblazing Woman in Archaeology](#)”.
- 2017 Interview and photo feature in The Observer (Guardian). “[Pregnant in the Field: Have trowel, will travel](#)”.
- 2016 Interviewed by ABC Radio (Melbourne, Australia) on [women and diversity in archaeology, open access publishing, and digital archaeology/gaming](#).
- 2016 Forbes. “[Learning Weather and Climate with the Popular Game Minecraft](#)”.
- 2015 Forbes. “[Move Over Paleontology Barbie, There Is A New Fossil Hunter In Town](#)”.
- 2015 Christian Science Monitor. “[#InMyShoes: How a girl's quest for dinosaur shoes is leaving a big footprint on Twitter](#)”.
- 2014 CNN’s Leading Women: “[TrowelBlazers: In search of the female Indiana Jones](#)”.

ARTICLES

- 2021 Hassett, B., **Pilaar Birch, S.E.**, Wragg Sykes, R. and V. Herridge. [The Untold Stories of Archaeology’s Women](#). *Sapiens*. 23 March.
- 2017 Hassett, B., **Pilaar Birch, S.E.**, Wragg Sykes, R. and V. Herridge. [The history of women in science shows us the fight is worth it](#). *The Guardian*. 8 March.
- 2016 Wragg Sykes, R., Hassett, B., Herridge, V., and **S.E. Pilaar Birch**. [Trowel blazers: women have been digging geosciences longer than you think](#). *The Guardian*. 20 October.
- 2014 **Pilaar Birch, S.E.** [Essential Guide: How to start an Open Access journal in five steps](#). *London School of Economics Impact of Social Sciences Blog*. 18 September.
- 2013 **Pilaar Birch, S.E.** [Does this photograph show Mary Anning?](#) *The Guardian*. 21 August.

EVENTS

- 2025 Barnett Shoals Elementary School 2nd grade class visit. 20 students.
- 2025 Smithsonian Journeys Expert Lecture Series. “Fantastic Beasts and Where (Not) to Find Them: The incredible extinct fauna of the Mediterranean”. Virtual; global audience of ~500.
- 2024 Creswell Crags Museum (UK) Online Lecture Series, “Surviving the Elements: Human Mobility, Adaptability, and Ingenuity”. Virtual; global audience of ~65.
- 2024 Barnett Shoals Elementary School STEM Night. ~100 students and parents.
- 2024 Osher Lifelong Learning Institute at UGA lecture, “Early Humans: Ice, Stone, and Survival”. Non-academic, senior citizen audience of 40.
- 2023 Athens-Clarke County Public Library author lecture, “Early Humans: Ice, Stone, and Survival”. Non-academic audience of 30.
- 2023 Barnett Shoals Elementary School Kindergarten class visit. 20 students.
- 2022 Invited guest and panelist, “Fossil Frenzy” event and performance of “Digging Up Dessa” at Lexington Children’s Theater, Lexington, KY.
- 2020 Guest appearance on “Science Q & A” web show as part of the Cosmic Shambles Network, hosted by British comedian Robin Ince and physicist Dr. Helen Czerski.
- 2019 Gwinnett School of Mathematics, Science, and Technology Speaker Series. “What’s New About Old Bones? How Archaeological Science is Transforming Our Knowledge of the Past” Approximately 20 9th graders.
- 2017, 2018 J.J. Harris Elementary School, Athens-Clarke County School District STEAM Day. Taught over 250 1st, 2nd, 3rd, and 5th grade students about archaeology.

- 2017 Hickory Hill Advanced Archaeology Summer Camp. Afternoon lecture and hands-on zooarchaeology activity for 6-8th grade students.
- 2017 Decoding Bones: How archaeology unearths ancient civilizations. Presenter, Athens Science Café. Non-academic audience of 50+.
- 2013 International Archaeology Day Volunteer (AIA Narragansett/Brown University)
- 2011-2012 Cambridge Personal Histories Jane Goodall Event Volunteer, Photographer. Photos published in [Antiquity Project Gallery](#).
- 2010-2012 Science Day Volunteer, University of Cambridge
- 2009-2012 Higher Education Field Academy: Access Archaeology Program Volunteer

DIGITAL MEDIA

- 2023 **Early Humans: Ice, Stone, and Survival.** Twenty-episode lecture series for The Great Courses (Chantilly, VA) on human prehistory from 200,000 years ago to the advent of agriculture. Developed 2020-2022.
- 2015 **Neotoma Paleoecology Database** Teaching module development for use in high schools and college at the Science Education Resource Center, Carleton College, MN. "[Climate Change and Mammal Dispersal](#)"
- 2012-2013 **Social Media and Digital Research Videos.** Production of short animated videos highlighting research by PhDs in archaeology and heritage at the University of Cambridge. Available on YouTube. 135,000+ views.

ART

- 2018-2019 "The Head and the Art" UGA art project pairing scientists and artists to create science-inspired pieces. Paired with MFA student Katharine Miele. Launch event UGA Science Library, Dec 2018; second showing at Creature Comforts Brewery, Athens, GA through January 2019.
- 2016-2019 "Raising Horizons: Portraits Highlighting Women in Archaeology and Geoscience Past and Present" Project development through TrowelBlazers with photographer Leonora Saunders. Launch event Royal Geological Society, London, UK Feb 2017; exhibit on tour in UK through 2019. <http://raisinghorizons.co.uk/>

GUEST LECTURES AT THE UNIVERSITY OF GEORGIA

- 2024, 2025 Guest lecture, Foundations in Research
- 2023 Guest lecture, Ethnographic Research Methods (ANTH 3050)
- 2023 Invited speaker, Open Science Seminar Series
- 2022 Invited speaker, Center for Applied Isotope Studies Seminar Series
- 2020 Invited speaker, Cross-Disciplinary Ecology: Exploring Representation and Identity Within the Sciences (ECOL 8030)
- 2020 Invited speaker, Friends of the Georgia Museum of Natural History Turtle Pond Talk Series
- 2019 Gender, the Body, and Fieldwork Across Disciplines. Invited Mentor.
- 2019 Panelist on job offer negotiation. Future Faculty Fellows Program. (x2)
- 2018 Communicating Science to the Public. Invited panelist, Southeast Regional Society for Developmental Biology Annual Meeting.
- 2018 Starting the Conversation: Women and the Field in the Social Sciences. Invited panelist.
- 2018 Managing your social media presence: communicating research and relevance. Department of Anthropology Professional Seminar.

- 2017 Decoding Bones: The Science of Zooarchaeology. Osher Lifelong Learning Institute at UGA.
- 2017 Climate Change and the Origins of Agriculture. Honors Program Lunchbox Lecture, Moore College.
- 2016-2019 Communicating your research via social media. Communicating Research and Scholarship (GRSC 8200). (x4)
- 2016 Social media use in academia. Warnell School of Forestry & Natural Resources.
- 2016 Online Presence Workshop. Women in Science (WiSci) and Graduate Research Assistants Diversifying Science (GRADS) professional development workshop.

WEBSITES

- 2014- **Stable Isotopes in Zooarchaeology** Creator. [www.zooarchisotopes.com]
 2013- **TrowelBlazers** Co-creator and co-moderator. [www.trowelblazers.com]
 2013 **AIA Narragansett** Creator, former blog moderator. [www.aianarragansett.org]

PEDAGOGICAL TRAINING

- 2025-2026 Senior Teaching Fellow, Center for Teaching and Learning, University of Georgia
- 2023-2024 Lilly Teaching Fellowship Mentor, University of Georgia
- 2019 Active Learning Summer Institute, University of Georgia
- 2015-2017 Lilly Teaching Fellowship, University of Georgia
- 2013-2014 Teaching Certificate I Program, Sheridan Center, Brown University
- 2013 Teaching at Brown Orientation Workshop, Sheridan Center, Brown University
- 2010-2012 Annual Supervisors Workshop, Archaeology Department, Cambridge University
- 2009 Supervising & Small Group Teaching Training, Cambridge University

PEER REVIEWER

FUNDING BODIES

European Research Council (ERC)
French National Research Agency (ANR)
Fulbright Commission, Czech Republic
German-Israeli Foundation for Scientific Research and Development (GIF)
National Science Foundation (NSF)
 Graduate Research Fellowship
 Geography & Spatial Sciences
 Geosciences Open Science Ecosystem (GEO OSE) Program
 Earth Sciences Instrumentation and Facilities Program (EAR/IF)
 Archaeology and Archaeometry
National Science Centre, Poland
State of Louisiana Board of Regents Support Fund
Wellcome Trust, United Kingdom

EXAMS AND ACCREDITATION

American Council on Education

PUBLICATIONS

<i>Arctic</i>	<i>Journal of Ecology</i>
<i>American Journal of Biological</i>	<i>Journal of Field Archaeology</i>
<i>Anthropology</i>	<i>Journal of Island and Coastal Archaeology</i>
<i>Anthropocene</i>	<i>Journal of Mediterranean Archaeology</i>
<i>Advances in Archaeological Practice</i>	<i>Journal of the Royal Anthropological</i>
<i>Biology Letters</i>	<i>Institute</i>
<i>Documenta Praehistorica</i>	<i>Journal of Quaternary Science</i>
<i>Environmental Archaeology: The Journal</i>	<i>Macmillan Publishers</i>
<i>of Human Palaeoecology</i>	<i>Nature Human Behavior</i>
<i>Human Ecology</i>	<i>Nature Scientific Reports</i>
<i>International Journal of Historical</i>	<i>Palaeogeography, Palaeoclimatology,</i>
<i>Archaeology</i>	<i>Palaeoecology</i>
<i>International Journal of Osteoarchaeology</i>	<i>Papers from the Institute of Archaeology</i>
<i>Iran</i>	<i>PLOS ONE</i>
<i>Journal of Archaeological &</i>	<i>Princeton University Press</i>
<i>Anthropological Sciences</i>	<i>Proceedings of the National Academy of</i>
<i>The Holocene</i>	<i>Sciences</i>
<i>Journal of Archaeological Research</i>	<i>Quaternary International</i>
<i>Journal of Archaeological Science</i>	<i>Quaternary Science Reviews</i>
<i>Journal of Archaeological Science: Reports</i>	<i>Science Advances</i>
<i>Journal of Archaeological Method and</i>	<i>University of Utah Press</i>
<i>Theory</i>	

PROFESSIONAL SERVICE AND MEMBERSHIPS

American Society of Overseas Research (ASOR) (2013-current)	
2018-	Committee on Archaeological Research and Policy
2016-2018	Publications Committee
Archaeological Institute of America (2013-current)	
2020-	Pomerance Award Committee
2013-2014	Co-Chair, Rhode Island Chapter
Association of American Geographers (2014-current)	
2015-	Paleoenvironmental Change Specialty Group
International Council for Archaeozoology (2009-current)	
2024-	Executive Committee (elected position)
2023	Committee of Honor (by nomination and election only)
2018-2023	Treasurer, Executive Committee Member
2016-2018	Treasurer-elect, Executive Committee Member
2015-2018	Scientific Committee, 13 th ICAZ Meeting (Ankara, Turkey 2018)
2014-2018	International Committee Member (elected position)
2012-2021	Coordinator, Stable Isotopes in Zooarchaeology Working Group
International Union for Quaternary Research (2015-current)	
Neotoma Paleoecology Database (2014-current)	
2018-	Leadership Council
Society for American Archaeology (2008-2019, 2023-)	
2018-2021	Committee on the Status of Women in Archaeology
2015-2021	Publications Committee

INSTITUTIONAL SERVICE

UNIVERSITY OF GEORGIA

2024-2025	Graduate Committee, Geography; Post-Tenure Review Committee, Anthropology and Geography
2023-2024	Advisory Committee (elected), Colloquium Committee, Geography; Undergraduate Committee, Anthropology
2022-2023	Undergraduate Committee, Lecturer Search Committee, Anthropology; Colloquium Committee, Geography; Faculty Senate Proxy, Franklin College
2021-2022	Undergraduate Committee, Anthropology; Search Committee, Marine Science
2019-2020	Committees on Space; Undergraduates; Diversity (chair), Geography
2018-2020	Graduate Studies Committee, Faculty Search Committee, Anthropology
2018-2020	Space Committee; Advisory Committee (elected), Department of Geography
2017-2020	University Council
2017-2018	Colloquium Review Committee, Department of Geography
2016-2018	Executive Committee, Department of Anthropology
2014-2018	Diversity Recruitment and Retention Committee, Department of Geography
2014-2016	Speaker Committee, Department of Anthropology

BROWN UNIVERSITY

2013-2014	Postdoctoral Representative, Postdoctoral Advisory Panel, Brown University
2013-2014	Co-President, Rhode Island Chapter of the Archaeological Institute of America
2013	Careers Panel Speaker, SAA 1 st Annual Student Day, Honolulu, Hawaii

CAMBRIDGE UNIVERSITY

2012	Organizer, Communicating Research Workshop, University of Cambridge
2011	Graduate Representative, Department of Archaeology Faculty Committee
2010-2012	Subscriptions Officer, <i>Archaeological Review from Cambridge</i>
2010-2011	Organizer, George Pitt-Rivers Archaeological Science Seminar Series
2009-2010	Organizer, Cambridge Archaeology Graduate Society Seminar Series
2008-2009	Internal Officer, Gates Cambridge Scholars' Council
2008-2009	Graduate Representative, Department of Archaeology Library Committee
2008-2009	Publicity Officer, Cambridge Archaeology Graduate Society

RUTGERS UNIVERSITY

2007	Founder, Lambda Alpha National Anthropology Honor Society R.U. Chapter
2006-2008	President, Rutgers University Undergraduate Anthropology Club
2006	Co-founder, Roots and Shoots (Jane Goodall Institute), Rutgers Chapter

SHORT COURSES & PROFESSIONAL DEVELOPMENT

2025	Faculty Leadership Development and Mentoring Program, University of Georgia
2018	SAA Online Seminar, If We Build it They will Come: Creating Engaging and Innovative Community Archaeology Programs
2018	Modeling Past Climate Change and Human Adaptation Workshop, The Ohio State University (competitive, funded)
2017	Faculty Leadership Institute, University of Georgia
2015	SPATIAL: Isotopes in Biogeochemistry & Ecology, University of Utah (competitive, funded)
2015	Diversity and Inclusion Certificate Program, University of Georgia

- 2014 Cast, Cut, Sample, Analyze: A practical approach to processing speleothems for paleoclimate reconstruction, University of Miami (competitive, funded)
- 2012 Rising Stars Public Engagement Course, University of Cambridge
- 2011 Radiocarbon Dating & Bayesian Chronological Analysis, Oxford University

CONSULTING

- 2023- Expert, Smithsonian Journeys
 Prehistoric Caves of France and Spain
 Around the World by Private Jet
 Cruising the Mediterranean: Sicily, Sardinia, and Mallorca
- 2016-2017 Research design for isotope analysis on Jumbo the elephant for a documentary produced by BBC, CBC, and Humble Bee Films, “Attenborough and the Giant Elephant”. Air date December 2017 on BBC One (UK).
- 2013-2015 Arklu Ltd. “[Fossil Hunter Lottie](#)” doll design and educational content. 2017 Toy of The Year Award-Action Figure of the Year 2nd place.

RESEARCH SKILLS AND LANGUAGES

Preparation of bone, teeth, shell, and plant samples for stable isotope analysis
 Faunal analysis (species identification and bone modification)
 Archaeological survey and excavation
 Preparation and analysis of geoarchaeological samples for micromorphology
 Computer skills: ArcGIS, MS Office, SPSS, InDesign, HTML
 Spanish (intermediate), Turkish (beginner speaking), German (beginner reading)