

Suzanne E. Pilaar Birch, Ph.D.

Department of Anthropology | Department of Geography | University of Georgia
Anthropology: 250 Baldwin Hall, Jackson Street, Athens, GA 30602 | (706) 542-4171
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CURRENT APPOINTMENTS AND AFFILIATIONS

- 2014- University of Georgia, Athens, GA, USA
- Assistant Professor, Joint Appointment, Anthropology and Geography
 - Director, Quaternary Isotope Paleoecology Laboratory
 - Adjunct Curator, Georgia Museum of Natural History
 - Research Associate, Center for Applied Isotope Studies
 - Faculty Associate, Center for Archaeological Sciences
 - Affiliate, Center for Integrative Conservation Research
 - Affiliate, Institute for Women's Studies

PREVIOUS POSITIONS

- 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) (£110,000)

- 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

Environmental archaeology, human paleoecology, stable isotope analysis, zooarchaeology, paleoclimate, archaeobiology, climate change adaptation, agricultural transitions, migration and seasonal mobility, digital archaeology, public engagement/outreach, women in earth sciences

TEACHING COMPETENCY

Environmental archaeology, human behavioral ecology, zooarchaeology, human osteology, archaeological science (stable isotope analysis, ancient DNA), climate change, paleoecology

GRANTS

-
- 2016-2017 University of Georgia Research Foundation. Faculty Research Grant. “Archaeologically-Linked Paleoenvironmental Reconstruction” PI (\$10,000)
- 2016-2019 National Science Foundation Geoinformatics Program. “Collaborative Research: Neotoma Paleoecology Database, Community-led Cyberinfrastructure for Global Change Research” Collaborator with subaward. PIs: Jack Williams and Eric Grimm (\$900,000)
- 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 Julien Riel Salvatore and Rebecca Wragg Sykes (\$15,612 CAD)
- 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 Marshall Shepherd, Jerry Shannon, and Thomas Mote (\$8,000)
- 2015-2016 International Union for Quaternary Research (INQUA) Project Grant. “Reconstructing Hunter-Gatherer Mobility: Building New Inter-disciplinary Frameworks in the Quaternary” Co-PI with Rebecca Wragg Sykes and Julien Riel Salvatore (€4,000)
- 2015-2016 National Geographic Committee for Research and Exploration. “Neolithization of Europe: New Zooarchaeological and Stable Isotope Evidence from Uğurlu Höyük, Gökçeada, Turkey” Co-PI with Levent Atici (\$22,000)
- 2015 Diversity Leadership Development Program, University of Georgia. Lead with Hilda Kurtz, Jennifer Rice, and Marshall Shepherd (\$3,000)
- 2013 Brown University Undergraduate Teaching and Research Award (\$1,000)
- 2013 Research Councils UK Open Access Research Publication Grant (£800)
- 2012 Arts & Humanities Research Council Social Media Knowledge Exchange (£1,000)
- 2012 Natural Environment Research Council Radiocarbon Dating Grant (£3,060)
- 2010 Department of Archaeology, Cambridge University PhD Research Grant (£5,300)
- 2010 Gates Cambridge Trust, Cambridge University PhD Research Grant (£5,300)

PUBLICATIONS

Citations: 124 | h-index: 4 | * indicates peer reviewed | OA indicates open access publication

JOURNAL ARTICLES AND BOOK CHAPTERS

- 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*. *
DOI:10.1016/j.quaint.2016.12.035
- 2017 Pauli, J.N., Newsome, S.D., Cook, J.A., Harrod, C., Steffan, S.A., Baker, C., Ben David, M., Bloom, D., Brown, G., Cerling, T., Cicero, C., Cook, C., Dohm, M., Eherlinger, J., Federhen, S., Frey, B., Ghosh, P., Graves, G., Gropp, R., Hobson, K., Jordan, C., **Pilaar Birch, S.E.**, Poelen, J., Ratnasingham, S., Russell, L., Stricker, C., Uhen, M., Yarnes, C., Harden, B. “Why we need a centralized repository for isotopic data” *Proceedings of the National Academy of Sciences*. In press. *

- 2017 **Pilaar Birch, S.E.** “From the Aegean to the Adriatic: Exploring the Earliest Neolithic Island Fauna” *Journal of Island and Coastal Archaeology*. In press.*
- 2017 **Pilaar Birch, S.E.** “Multispecies Archaeology: Integrating theory, method, and practice.” S.E. Pilaar Birch (ed.), *Multispecies Archaeology*. Archaeological Orientations Series. London: Routledge. In press.
- 2017 **Pilaar Birch, S.E.** “Seasonal mobility and multispecies interactions in the Mesolithic northeastern Adriatic.” in S.E. Pilaar Birch (ed.), *Multispecies Archaeology*. Archaeological Orientations Series. London: Routledge.* In press.
- 2017 **Pilaar Birch, S.E.** & P.T. Miracle. “Human response to climate change in the Northern Adriatic during the late Pleistocene and early Holocene” G. Monks (ed.), *Climate Change and Human Responses: A Zooarchaeological Perspective*. Vertebrate Paleobiology and Paleoanthropology Series. New York: Springer.* In press.
- 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. and Jameson, J. (ed.) *Public Participatory Archaeology*. New York: Springer.* In press.
- 2017 **Pilaar Birch, S.E.** “Neolithic subsistence at Vela Špilja on the island of Lošinj, Croatia” D. Serjeantson, P. Rowley-Conwy and P. Halstead (eds.), *Economic Zooarchaeology: Studies in Hunting, Herding and Early Agriculture*. Oxford: Oxbow.* In press. Chapter 30.
- 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*
- 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 *Géochronologie 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. *
- 2015 **Pilaar Birch, S.E.** “Diversity and demographics of zooarchaeologists: Results from a digital survey” *Ethnobiology Letters* 6(2): 59-67. OA*
- 2015 **Pilaar Birch, S.E.** and R.W. Graham. “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.** 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.*
- 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.
- 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*

- 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 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.
- 2013 **Pilaar Birch, S.E.** "Using social media for research dissemination: The Digital Research Video Project" *Internet Archaeology* 35. OA.*
- 2013 **Pilaar Birch, S.E.** "Stable isotopes in zooarchaeology" *Archaeological and Anthropological Sciences* 5: 81-83.
- 2011 Wallduck, R. & **S.E. Pilaar Birch**. "Archaeology and economic crises" *Archaeological Review from Cambridge* 26(1): 1-6.
- 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.*

BOOKS

- 2017 **Pilaar Birch, S.E.** (ed.) *Multispecies Archaeology*. Archaeological Orientations Series. Series Editors: G. Lucas and C. Witmore. New York: Routledge. In press.
- In prep. Çakırlar, C., Berthon, R., Chahoud, J., & **S.E. Pilaar Birch** (ed.) *Proceedings of the 12th Meeting of the Archaeozoology of Southwest Asia*. Groningen Archaeological Series. Groningen: University of Groningen Press.

BOOK REVIEWS

- 2017 **Pilaar Birch, S.E.** Review of "Applied Zooarchaeology: Five Case Studies" by S. Wolverson, 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.

WHITE PAPERS AND 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>]

Submitted 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

2016 Editor, Online Supplementary Material for Renfrew, C. and P. Bahn. 2016. *Archaeology: Theories, Methods, and Practice* 7th Edition. London: Thames & Hudson.

2015- 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

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)

2008 Honorable Mention, National Science Foundation Graduate Research Fellowship

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)

CONFERENCES AND SESSIONS ORGANIZED

2016 “Data Management and New Directions” First ICAZ Stable Isotopes in Zooarchaeology Working Group Meeting. Conference organizer. University of Georgia, Georgia, USA.

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.
- 2011 “Seasonality in Prehistory: New Methods for Addressing an Old Question” Session organizer and chair. Society for American Archaeology. Sacramento, California, USA.
- 2010 “Island Zooarchaeology” Session organizer and chair. International Congress on Archaeological Science in the Eastern Mediterranean and Near East, Paphos, Cyprus.

CONFERENCE PRESENTATIONS AND LECTURES

* indicates invited paper or lecture

- 2016 “Integrating Zooarchaeological and Stable Isotope Evidence from Uğurlu Höyük, Gökçeada, Turkey”. American Schools of Oriental Research. Paper. San Antonio, Texas, USA.*
- 2016 “TrowelBlazers: Women in Archaeology and the Earth Sciences”. Lecture for the Institute for Women’s Studies, University of Georgia*
- 2016 “A Stable Isotope Data Repository as part of Neotoma, a Paleoecological Database”. IsoBank Workshop. Paper. La Joya, New Mexico.*
- 2016 “From the Aegean to the Adriatic: Exploring the Neolithization of Islands” Society for American Archaeology. Paper. Orlando, Florida, USA.*
- 2016 “When did the Anthropocene really begin? An archaeological perspective” American Association of Geographers. Paper. San Francisco, California, USA.*
- 2016 “A New Terrestrial Climate Proxy? Evaluating the Stable Isotope Analysis of Herbivore Teeth” Lecture in the Department of Geology, University of Georgia.*
- 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, Quebec, Canada.
- 2015 “Neotoma and Isotopes, Perfect Together: Building a Stable Isotope Data Repository as part of the Neotoma Paleoecology Database” 2015 Neotoma Workshop. Paper. Berkeley, California, 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, Illinois, USA.
- 2015 “Multispecies Archaeology” Society for American Archaeology. Paper. San Francisco, California, 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.
- 2014 “At the Crossroads: Climate Change, Sea Level Rise, and Seasonal Mobility at the Dawn of Agriculture in Europe” Lecture in the Department of Geology and Geography, Georgia Southern University, Georgia, USA.*
- 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 “Topics in Cyberinfrastructure I: Scholarship in the 21st Century, A Panel Discussion”. Panelist. American Schools of Oriental Research. Baltimore, Maryland, USA.*
- 2013 “Carbon Counts in Archaeological Paleoenvironmental Reconstruction” Lecture in Department of Archaeology, Boston University, Massachusetts, USA.*
- 2013 “Social Media and Digital Research Videos” Society for American Archaeology. Poster. Honolulu, Hawaii, USA.
- 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, New Jersey, USA.*
- 2013 “Following the Herd? Seasonality and Human Mobility at the Pleistocene-Holocene Transition” Lecture at the Department of Anthropology, University of Connecticut, Connecticut, USA.*
- 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, Rhode Island, USA.*
- 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, USA.*
- 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, California, USA.
- 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.

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.

RESEARCH PROJECTS AND FIELDWORK

- 2016 **Għar Dalam Cave, Malta**
Section cleaning, recording, and field sampling
- 2015 **Uğurlu Höyük Excavations**
Field sampling and faunal analysis
- 2012 **Bridging the European and Anatolian Neolithic (BEAN)**
Research affiliate
- 2011 **Food Globalisation in Prehistory Project (FOGLIP)**
Excavation and sampling in Kazakhstan (Botai) and China (Lanzhou)
- 2010 **Vela Spila Excavations, Korčula, Croatia**
Excavation and faunal analysis
- 2009 **Reindeer Migration in Upper Palaeolithic France**
Stable isotope analysis of reindeer from Abri Pataud and La Madeleine
- 2008 **Tell Atchana (Alalakh) Excavations**
Faunal analysis, excavation of human skeletal remains, and field survey
- 2006 **Jamestown Rediscovery, Jamestown, Virginia, USA**
Archaeological field school; excavation and artifact conservation

TEACHING

University of Georgia

- 2014- Course instructor of record
- Undergraduate only
- Old World Archaeology (Anthropology)
 - Resources, Society, and the Environment (Geography)
 - Digital Dimensions of Archaeology (Anthropology/Geography)(online)
- Graduate only
- Geoarchaeology & Paleoenvironmental Reconstruction (Geography)
 - Human Ecosystems Evolution (Anthropology)
 - Terrestrial Geochemical Proxies of Environmental Change (Geography)

Undergraduate/Graduate

- Global Environmental Change during the Quaternary (Geography)
- Molecular Past (Anthropology)
- 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

- Introduction to Archaeological Practice (first year course)
- Archaeological Science I (second year course)
- Archaeological Science (masters level)
- Zooarchaeology short course (PhD student and postdoctoral sessions)

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**

2016- Clara Sophia Reini (Ph.D., Anthropology)

2015- María José Rivera Araya, *Assessing stable isotope data from archaeological white-tailed deer remains as a paleoenvironmental proxy at the site of La Joyanca, Northwestern Petén, Yucatán Peninsula* (M.Sc., Geography)**Committee Member**2016- Kelly Cronin, *Effects of Sea Ice on the Growth and Shell Chemistry of the Antarctic Scallop and Ecosystem Engineer, Adamussium colbecki* (Ph.D., Geology)2015- Katharine Napora *A Dendrochronological Approach to Climate and Culture during the Late Archaic-Early Woodland Transition Along the Georgia Coast* (Ph.D., Anthropology)

- 2015- Isabelle Lulewicz (Ph.D., Anthropology)
- 2015- Jiaying Wu, *Climate and Environmental Change in the Highlands of Costa Rica: Evidence from Glacial Lakes* (Ph.D., Geography)
- 2015- Danielle Haskett, *Climate and Environmental Change in the Colorado Rockies: A multi-proxy paleolimnological approach for reconstructing thermal and environmental conditions for alpine lakes over varying temporal scales* (Ph.D., Geography)

Georgia Museum of Natural History Undergraduate Interns

- 2016-2017 Janae Lunsford, Laura Dupont, Morrison Nolan, Shelby Watts, Joshua Glass
- 2015-2016 Onyale Donloe, Rubi Rodriguez, Jessica Mintz, Hannah Trader, Jonah Buxton

OUTREACH

MAINSTREAM MEDIA MENTIONS AND INTERVIEWS

- 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”.

WEBSITES

- 2014- **Stable Isotopes in Zooarchaeology** Website creator. [www.zooarchisotopes.com]
- 2013- **TrowelBlazers** Co-creator and co-moderator of a popular website on women in archaeology, paleontology, and geology, highlighting archival collections and featuring over 120 women. Over 10,000 followers on social media. [www.trowelblazers.com]
- 2013 **AIA Narragansett** Creator, former blog moderator. [www.aianarragansett.org]

DIGITAL MEDIA

- 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” [http://serc.carleton.edu/neotoma/activities/121239.html]
- 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. 3,000+ views.

ARTICLES

- 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*. [https://www.theguardian.com/science/blog/2017/mar/08/the-history-of-women-in-science-shows-us-the-fight-is-worth-it-international-womens-day] 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*. [<https://www.theguardian.com/science/blog/2016/oct/20/we-must-highlight-these-trowel-blazers-and-inspire-tomorrows-women-scientists>] 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*. [<http://blogs.lse.ac.uk/impactofsocialsciences/2014/09/18/how-to-start-an-open-access-journal/>] 18 September.
- 2013 **Pilaar Birch, S.E.** Does this photograph show Mary Anning? *The Guardian*. [<http://www.theguardian.com/science/the-h-word/2013/aug/21/photograph-mary-anning-women-history-geology>]. 21 August.

EVENTS

- 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 Event Volunteer, Photographer. Photos published in *Antiquity* Project Gallery. [<http://antiquity.ac.uk/projgall/carpeneti333/>]
- 2010-2012 Science Day Volunteer, University of Cambridge
- 2009-2012 Higher Education Field Academy: Access Archaeology Program Volunteer

GUEST LECTURES

- 2017 Climate Change and the Origins of Agriculture. UGA Honors Program Lunchbox Lecture, Moore College.
- 2016 Communicating your research via social media. Communicating Research and Scholarship (GRSC 8200).
- 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.

PROFESSIONAL SERVICE AND MEMBERSHIPS

American Schools of Oriental Research (2013-current)

2016- Publications Committee

Archaeological Institute of America (2013-current)

Association of American Geographers (2014-current)

2015- Paleoenvironmental Change Specialty Group

International Council for Archaeozoology (2009-current)

2016- Treasurer-elect, Executive Committee Member

2015- Scientific Committee, 13th ICAZ Meeting (Ankara, Turkey 2018)

2014- International Committee Member (elected position)

2012- Coordinator, Stable Isotopes in Zooarchaeology Working Group

International Union for Quaternary Research (2015-current)

Society for American Archaeology (2008-current)

2015- Publications Committee

INSTITUTIONAL SERVICE

UNIVERSITY OF GEORGIA

- 2016- Executive Committee, Department of Anthropology
 2014- 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 1st 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, *Archaeological Review from Cambridge*
 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

PEER REVIEWER

European Research Council
National Science Foundation
Wellcome Trust
International Journal of Historical Archaeology
International Journal of Osteoarchaeology
Iran
Journal of Archaeological & Anthropological Sciences
Journal of Archaeological Research
Journal of Archaeological Science
Journal of Ecology
Journal of Mediterranean Archaeology
Palaeogeography, Palaeoclimatology, Palaeoecology
Papers from the Institute of Archaeology
PLOS ONE
Quaternary International

PEDAGOGICAL TRAINING

- 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

CONSULTING

2013-2015 Arklu Ltd. "Fossil Hunter Lottie" doll design and educational content

SHORT COURSES & PROFESSIONAL DEVELOPMENT

2015 SPATIAL: Isotopes in Biogeochemistry & Ecology, University of Utah
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
2012 Rising Stars Public Engagement Course, University of Cambridge
2011 Radiocarbon Dating & Bayesian Chronological Analysis, Oxford University

RESEARCH SKILLS AND LANGUAGES

Preparation of bone, teeth, and shell 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)