

BRIDGET ALEX*Curriculum vitae*

Harvard University, Peabody Museum

11 Divinity Avenue

Cambridge, MA 02138

Email: balex@fas.harvard.edu<http://scholar.harvard.edu/bridget-alex>**POSITIONS**

- 2017- Associate Concentration Advisor and Lecturer, Human Evolutionary Biology, Harvard University
- 2016-2017 Postdoctoral College Fellow, Human Evolutionary Biology, Harvard University

EDUCATION

- 2012-2016 Ph.D. Anthropological Archaeology & Human Evolutionary Biology Harvard University. Thesis: *Establishing contexts of encounters: Radiocarbon dating of archaeological assemblages with implications for Neanderthal-modern human interactions*. Supervised by David Pilbeam, Christian Tryon, Richard Meadow, Daniel Lieberman, Elisabetta Boaretto
- 2009-2012 M.A. Anthropology-Archaeology Harvard University
- 2004-2008 A.B. Anthropology, A.B. Chemistry modified with Earth Sciences Dartmouth College, Honors, *cum laude*. Thesis: *Comparative sourcing study: INAA, LA-ICP-MS, and TIMS of Formative Period ceramics from Teotihuacan Valley, Mexico*.

RESEARCH INTERESTS

Paleoanthropology, human evolution, archaeological science, radiocarbon dating, paleogenetics, geoarchaeology

AWARDS AND GRANTS

- 2013- 2016 NSF Doctoral Dissertation Improvement Grant, \$25,200
- 2013- 2014 Fulbright Student Scholarship, Israel, \$15,900
- 2011- 2015 NSF Graduate Research Fellowship Program Recipient, \$90,000 + tuition
- 2013 U.S.- Israel Binational Science Foundation Rahamimoff Travel Grant, \$4000
- 2012 Geological Society of America Graduate Research Grant, \$2500
- 2012 Sigma Xi Grants-in-Aid of Research, \$1000
- 2012 American School of Prehistoric Research, Harvard, \$1400
- 2011 Davis Center for Russian & Eurasian Studies Travel Grant, \$1110
- 2010 Teschmacher Summer Research Grant, Harvard Anthropology, \$1350
- 2009 Fulbright Student Scholarship, UK (declined)

- 2009 Claire Garber Goodman Fund Grant, Dartmouth Anthropology
 2008 Claire Garber Goodman Fund Grant, Dartmouth Anthropology
 2008 American Chemical Society Undergraduate Award in Analytical Chemistry
 2008 Undergraduate Research Scholarship, Nuclear Science & Engineering, MURR

PROFESSIONAL DEVELOPMENT

- 2017 Summer Institute on Scientific Teaching – one week training in scientific teaching, University of Connecticut
- 2016 AAAS Mass Media Fellow, Discover Magazine – ten week fellowship in science writing and communication
- 2015 Harvard Horizons Fellow – semester long training in public lectures

PEER REVIEWED PUBLICATIONS

- Alex, B.**, D. Mihailović, S. Milošević, E. Boaretto (under review). Radiocarbon Chronology of Middle and Upper Paleolithic Sites in the Central Balkans.
- Tryon, C., J. Lewis, K. Ranhorn, A. Kwekason, **B. Alex**... A. Mabulla (2018). Middle and Later Stone Age chronology of Kisese II rockshelter (UNESCO World Heritage Kondoa Rock-Art Sites), Tanzania. *PLOS One*. 13(2): e0192029.
- Alex, B.**, O. Barzali, O. Marder, I. Hershkovitz... E. Boaretto (2017). Radiocarbon chronology of Manot Cave, Israel and Upper Paleolithic dispersals. *Science Advances*. 3: e1701450.
- Alex, B.**, P. Valde-Nowak, L. Regev, E. Boaretto (2017). Late Middle Paleolithic of Southern Poland: Radiocarbon Dates from Ciemna and Obłazowa Caves. *Journal of Archaeological Science: Reports*. 11: 370-380.
- Valde-Nowak, P, **B. Alex**... Zajac, M. (2016). The Middle Palaeolithic sequence of Ciemna Cave. Some aspects of the site formation process. *Quartär*. 63: 33-46.
- Valde-Nowak, P, **B. Alex**... K. Zarzecka-Szubińska (2016). Late Middle Palaeolithic occupations in Ciemna Cave, southern Poland. *Journal of Field Archaeology*.
<http://dx.doi.org/10.1080/00934690.2015.1101942>
- Hershkovitz, I., O. Marder, **B. Alex**... O. Barzilai (2015). Levantine cranium from Manot Cave (Israel) foreshadows the first European modern humans. *Nature*. 520: 216-219.
- Stoner, W., D. Nichols, **B. Alex**, D. Crider (2015). The Emergence of Early-Middle Formative Exchange Patterns in Mesoamerica: A View from Altica in the Teotihuacan Valley. *Journal of Anthropological Archaeology*. 39:19-35.

Koons, M. and **B. Alex** (2014). Revised Moche Chronology Based on Bayesian Models of Reliable Radiocarbon Dates. *Radiocarbon* 56(3): 1039-1055.

Valde-Nowak, P., B. Ginter, **B. Alex**... K. Zarzecka (2014). Middle Paleolithic sequences of the Ciemna cave (Prądnik valley, Poland): The problem of synchronization. *Quaternary International* 326-327: 125-145.

Marder, O., **B. Alex**, A. Ayalon... O. Barzilai (2013). The Upper Palaeolithic of Manot Cave, Western Galilee, Israel: the 2011-12 excavations. *Antiquity* 87(337): online project gallery.

Alex, B.A., D. Nichols, M. D. Glascock (2012). Complementary Compositional Analyses of Formative Period Ceramics from the Teotihuacan Valley, Mexico. *Archaeometry* 54:821-834.

OTHER ACADEMIC PUBLICATIONS

Alex, B.A. (2018) Book Review of Paleanthropology of the Balkans and Anatolia: Human Evolution and its Context. *Journal of Anthropological Research*.

Alex, B.A. and E. Boaretto (2014). Radiocarbon chronology of Pešturina Cave. In *Palaeolithic and Mesolithic Research in the Central Balkans*, edited D. Mihailović. Serbian Archaeological Society, Belgrade. Pp 37- 45.

Roksandic, M., P. Radović, **B. Alex**, S. Panvić, M. Paunović, Z. Marković. (2014). Possible Upper Pleistocene humans from Serbia: morphological descriptions and radiocarbon dating. In *Palaeolithic and Mesolithic Research in the Central Balkans*, edited D. Mihailović. Serbian Archaeological Society, Belgrade. Pp 7-20.

Alex, B.A. (2009). Multi-method analysis of pre-Teotihuacan ceramics. *Society for Archaeological Sciences Bulletin*. 32(3): 7-14.

POPULAR SCIENCE PUBLICATIONS

2018 **Weekly Online Series** for *Discover*, covering fundamental topics & classic tales in Anthropology. All posts here: <http://discovermagazine.com/authors/bridget-alex>

“Hopeful Monsters: What Defines a Species” *Discover magazine* (9/2018)
(<http://discovermagazine.com/2018/sep/hopeful-monsters>)

“Everything Worth Knowing – Neanderthals” *Discover magazine* (7/2018)
(<http://discovermagazine.com/2018/jul-aug/neanderthals>)

“Something Stirs: What Will Happen as Permafrost Thaws” *Discover magazine* (6/2018)
(<http://discovermagazine.com/2018/jun/something-stirs>)

“The Great Aztec Temple” *Discover* magazine (4/2018)
<http://discovermagazine.com/2018/apr/the-great-aztec-temple>)

“A Brush with a Feathered Foe” *Discover* magazine (4/2018)
<http://discovermagazine.com/2018/apr/a-brush-with-a-feathered-foe>)

2017 “Stone Cold Science” *Discover* magazine (11/2017)
<http://discovermagazine.com/2017/nov/stone-cold-science>)

“Unraveling a Secret” *Discover* magazine (10/2017)
<http://discovermagazine.com/2017/oct/unraveling-a-secret>)

“Bronze Age Teens Ate Dogs to Become Men” *Discover* (8/8/17)
<http://blogs.discovermagazine.com/d-brief/2017/08/08/bronze-age-teens-ate-dogs/>)

“Everything Worth Knowing – Ancient DNA” *Discover* magazine (6/2017)
<http://discovermagazine.com/2017/jul-aug/ancient-dna>)

“Untangling the Ancient Inca Code of Strings” *Discover* (4/19/2017)
<http://blogs.discovermagazine.com/d-brief/2017/04/19/kipu-code-inca-language/>)

“DNA dating: How molecular clocks are refining human evolution’s timeline” *The Conversation* (4/7/17) (<http://theconversation.com/dna-dating-how-molecular-clocks-are-refining-human-evolutions-timeline-65606>)

Year in Science stories. *Discover* magazine (1/2017)

#4 – Oldest Human DNA Revises our Family Tree

#16 – We Are All Africans

#24 – Finding China’s Great Flood

#28 – A Bone to Pick about Philistines

#43 – Birds Sleep During Flight, Too

#54 – Skin Deep Evolutionary Link

#66 – The Nose Knows Antibiotics

#68 – Our First Date Out of Africa

#75 – Poster Critter for Climate Change

#80 – Greenland Sharks Can Live 500 Years and Counting

#88 – A Fossil from the Heavens

2016 “Why we’re closer than ever to a timeline for human evolution” *The Guardian* (12/22/16) (https://www.theguardian.com/science/blog/2016/dec/22/why-were-closer-than-ever-to-a-timeline-for-human-evolution?CMP=share_btn_tw)

“Meet the Denisovans” *Discover* magazine (12/2016)
<http://discovermagazine.com/2016/dec/meet-the-denisovans#>)

“Flossing- What Is It Good For” *Discover* magazine (12/2016)
<http://discovermagazine.com/2016/dec/flossing--what-is-it-good-for>)

“Neanderthal vs Neandertal” *Discover* online. (8/26/16)
<http://blogs.discovermagazine.com/crux/2016/08/25/is-it-neander-tal-or-neanderthal/>)

“Yes, Some Greenland Sharks Are Old, but 400 Years Old?!” *Discover* online (8/11/16)
<http://blogs.discovermagazine.com/d-brief/2016/08/11/greenland-sharks-400-years-old/>)

“Your Nose May have Drugs in it, the Antibiotic Kind” *Discover* online (7/27/16)
<http://blogs.discovermagazine.com/d-brief/2016/07/27/your-nose-may-have-drugs-in-it-the-antibiotic-kind/>)

“Biodiversity Below ‘Safe’ Levels? Ecologists Disagree” *Discover* online (7/14/16)
<http://blogs.discovermagazine.com/crux/2016/07/14/earths-biodiversity-has-fallen-below-safe-levels-critics-sound-caution/>)

“Blame Your Subpar Fitness on that Neanderthal DNA” *Discover* online (7/13/16)
<http://blogs.discovermagazine.com/crux/2016/07/13/blame-your-subpar-fitness-on-that-neanderthal-dna/>)

“Designer Super-Smeller Mice Could Detect Explosives, Disease” *Discover* online (7/7/16)
<http://blogs.discovermagazine.com/d-brief/2016/07/07/designer-super-smeller-mice-could-detect-explosives-disease/>)

“Baby Cadavers Were Prized by Victorian Anatomists” *Discover* online (6/30/16)
<http://blogs.discovermagazine.com/d-brief/2016/06/30/baby-cadavers-were-prized-by-victorian-anatomists/>)

“Neanderthal-Human Interbreeding” *You’re the Expert* podcast
<https://soundcloud.com/youre-the-expert/neanderthal-human-interbreeding>)

2015 “Identifying Encounters between Neanderthals and Modern Humans through Reliable Radiocarbon Dates.” Harvard Horizons symposium
<https://gsas.harvard.edu/profiles/bridget-alex-0>)

CONFERENCE PRESENTATIONS & INVITED LECTURES

- 2017 **Invited lecture, California Academy of Sciences**
- 2016 **Alex, B.A.** and E. Boaretto, "Radiocarbon dating of human remains from Ashkelon Iron Age cemetery," Paper, ASOR meeting, San Antonio.
- 2016 **Alex, B.A.**, D. Fulton, E. Boaretto, D. Master, "Establishing Best Practice for Bone Collection and Storage at the site of Tel Ashkelon, Israel," Paper, 41st International Symposium on Archaeometry, Kalamata, Greece.
- 2016 **Invited lecture, University of Connecticut, Department of Anthropology.**
- 2016 **Invited lecture, Rutgers University, Department of Anthropology.**
- 2015 **Invited lecture, Dartmouth College, Department of Anthropology.**
- 2015 **Alex, B.A.**, D. Mihailović, S. Milošević, E. Boaretto, "Timing and nature of Neanderthal-modern human overlap in the Balkans," Poster, Paleoanthropology Society meetings, San Francisco.
- 2015 **Alex, B.A.**, O. Barzilai, E. Boaretto, "Chronology of the Early Upper Paleolithic at Manot Cave, Israel," Paper, 80th Society for American Archaeology meetings, San Francisco.
- 2014 **Invited lecture, Max Planck Institute for Evolutionary Anthropology, Germany.**
- 2013 **Invited lecture, Kimmel Center for Archaeological Science, Weizmann Institute, Israel.**
- 2013 **Alex, B.A.**, E. Boaretto, D. Master, "Establishing Best Practice for Bone Collection and Storage at the Site of Ashkelon, Israel," Paper, 78th meeting Society for American Archaeology, Honolulu.
- 2013 Invited lecture, Harvard Department of Anthropology.
- 2012 Invited lecture, Kimmel Center for Archaeological Science, Weizmann Institute, Israel.
- 2012 **Alex, B.A.**, D. Mihailović, S. Milošević, M. Morley, M. Roksandic, E. Boaretto, "Radiocarbon Sampling a Middle to Upper Paleolithic Palimpsest in the Balkans," Paper, 77th meeting Society for American Archaeology, Memphis.
- 2010 **Alex, B.A.**, N. Tuross, A.K. Behrensmeyer, "Amboseli Hydrogen Isotopes Across Species and Time," Poster, 38th International Symposium on Archaeometry, Tampa (honorable mention SAA R.E. Taylor student poster award).
- 2010 **Alex, B.A.**, K. Muldoon, L. Godfrey, S. King, "LA-ICP-MS of Malagasy Mammal Enamel," Poster, 79th meeting American Association of Physical Anthropologists, Albuquerque.

- 2009 **Alex, B.A.**, D. Nichols, B. Jackson, M.D. Glascock, "Multi-method Analysis of pre-Teotihuacan ceramics," Poster, 74th meeting Society for American Archaeology, Atlanta (honorable mention SAA R.E. Taylor student poster award).

TEACHING AND ADVISING

- 2017- Concentration Advisor, Human Evolutionary Biology – academic advisor for Harvard undergraduates studying Human Evolutionary Biology
- 2014-present Harvard Senior Resident Tutor, Cabot House
- 2018 Lecturer, HEB 1200 – *Neanderthals and other extinct humans* (redesigned as Mindich Program in Engaged Scholarship course)
- Lecturer, ANTH S-1300 – *Human Evolution* (designed new course)
- Lecturer, HEB 1700 – *Human Evolutionary Biology in Society* (designed new course; Mindich Program in Engaged Scholarship course; awarded Certificate of Teaching Excellence)
- Course Head, HEB 97 – *Sophomore Tutorial in Human Evolutionary Biology*
- 2017 Lecturer, HEB 3200 – *Graduate Proseminar in Human Evolutionary Biology*
- Lecturer, HEB/ANTH 1235 – *African Roots: Origins and dispersals of modern humans* (co-designed new course; awarded Certificate of Teaching Excellence)
- Lecturer, HEB 97 – *Sophomore Tutorial in Human Evolutionary Biology* (awarded Certificate of Teaching Excellence)
- 2016 Lecturer, HEB 1200- *Neanderthals and Other Extinct Humans* (designed new course; awarded Certificate of Teaching Excellence)
- Harvard Teaching Fellow, ANTH 1202- *Forensic Anthropology* (awarded Certificate of Distinction in Teaching)
- 2015 Harvard Teaching Fellow, HEB 97- *Sophomore Tutorial in Human Evo. Biology* (awarded Certificate of Distinction in Teaching)
- 2012-2013 Harvard Resident Tutor (academic & residential advisor for undergraduates)
- 2013 Harvard Teaching Fellow, LS1b- *Genetics, Genomics, & Evolution*
- 2012 Harvard Teaching Fellow, ANTH 1010, *Archaeological Methods & Reasoning*

2012 Harvard Teaching Fellow, NELC S-198, *Ashkelon Archaeological Field School*

OUTREACH

2018 Chautauqua Institution Special Studies Course (designed and taught 2 one week classes for adults, "Human Evolution")

2017 Big History Project teacher workshop, guest lecturer

2017 Chautauqua Institution Special Studies Course (designed and taught one week class for adults, "The Human Species")

2017 Harvard Graduate School of Arts and Sciences Alumni Day Presenter

2017 Science lesson, Beebee Middle School, Malden, MA.

2017 School talk, Beebee Middle School, Malden, MA. AAAS Science Days.

2017 Public lecture, Harvard Museum of Natural History. I Heart Science Festival.

2016 Scientific Adviser for AntiMatter Theater company, Future Perfect play.

2016 Speaker, NOVA and Leakey Foundation. Evolution Workshop for Teachers.

2016 Public lecture, Harvard Museum of Natural History. I Heart Science Festival.

2015 Public lecture, Harvard Alumni Association, New York City.

2015 Public lecture, Harvard Peabody Museum. Amazing Archaeology Day.

2009-2012 Science Club for Girls instructor and archaeology curriculum writer

2012 Harvard Anthropology Department radiocarbon workshop, instructor

2012- 2014 Graduate student volunteer and coordinator for community programs at Harvard Museum of Natural History

2011 Harvard Mini-course, *What's the Deal with Humans: Archaeology and Human Evolution* (designed and delivered 10 lectures)

2010 Harvard Mini-course, *History Before History: From the Origins of the Universe to the Modern Era* (designed and delivered 10 lectures)

FIELD PROJECTS

2012-2016 Manot Cave, Israel

2011-2016 Leon Levy Expedition to Ashkelon, Israel

2010-2015 Ciemna Cave, Obłazowa Cave, Poland

2010-2014 Sicevo Valley, Serbia

2014 Sde Boker, Israel

SYNERGISTIC ACTIVITIES

Organizer Harvard Archaeology Seminar Series, Organizer Kimmel Center for Archaeological Science Seminar Series, Graduate Student Representative for Archaeology Program, Student representative on Paleolithic Archaeologist Search Committee, Coordinator of Archaeology graduate student research seminar, Harvard Graduate Women in Science and Engineering Anthropology department representative

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science (AAAS); Fulbright Foundation; Society for American Archaeology (SAA); Sigma Xi, Scientific Research Society; American Association of Physical Anthropology (AAPA); American Chemistry Society Division of Analytical Chemistry; Geological Society of America; Paleoanthropology Society; American School of Oriental Research (ASOR)