

Pan African Evolution Research Group
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Last updated: April 2022

Professional Appointments

- 2019-present** Postdoctoral Research Scientist, Pan African Research Group, Max Planck Institute for the Science of Human History
- 2018-2019** Visiting Researcher, Institute of Human Origins, School of Human Evolution and Social Change, Arizona State University

Education

- 2018** Ph.D. in Anthropology (Evolutionary Anthropology), Arizona State University, Tempe, AZ 85281
Dissertation: *Zooarchaeological and Taphonomic Analyses of Pleistocene Vertebrate Fauna from the Middle and Later Stone Age Occupations at Contrebandiers Cave, Atlantic Coast, Morocco*
Ph.D. committee chair: Curtis W. Marean; Members: Harold L. Dibble and Kaye E. Reed; Conferred May 7, 2018
- 2010** Master of Arts in Anthropology (Physical Anthropology), Arizona State University, Tempe, AZ 85281
- 2008** Bachelor of Arts in Anthropology, University of Washington, Seattle, WA 98195

Research Interests

Zooarchaeology, Pleistocene Ecological Niche Modelling, Origins and Dispersals of Modern Humans, Evolution of Hominin Subsistence Behavior, Computational Archaeology, West Africa, North Africa, Paleoecology, Vertebrate Taphonomy, Vertebrate Paleontology, Prehistoric Coastal Adaptations, Prehistoric Montane Adaptations, Bone Tool Technology

Peer-Reviewed Publications (*corresponding author)

- (in review)** Cerasoni*, J.N., N'Dah, D., Candy, I., **Hallett, E.Y.**, Blinkhorn, J., Armitage, S., Scerri, E.M.L. Newly discovered Middle Stone sites in Tannongou Valley, Atakora Region, Benin. *Open Quaternary*.
- (in review)** Cerasoni, J.N.*, **Hallett, E.Y.***, Orijemie, E., Ashastina, K., Lucas, M., Farr, L., Höhn, A., Kiahtipes, C., Blinkhorn, J., Roberts, P., Manica, A., Scerri, E.M.L.* Human interactions with tropical environments over the last 14,000 years at Iho Eleru, Nigeria. *iScience*.
- (in review)** **Hallett, E.Y.***, Leonardi, M.*, Cerasoni, J.N., Will, M., Beyer, R., Krapp, M., Kandel, A.W., Manica, A.*, Scerri, E.M.L.* Major expansion in the human niche preceded out of Africa dispersal. *Nature*.

- (in revision)** Ranhorn, K.L.*, Tryon, C.A., Sharp, W., Quinn, R., Porter, S., Patania, I., Ogotu, J., Niespolo, E., McNeil, J., Mollel, S., Mashaka, H., Marean, C.W., Lewis, J.E., Laird, M.F., **Hallett, E.Y.**, Colarossi, D. Late Pleistocene-Holocene archaeology and paleoenvironments of the Kondoia region, Tanzania. *Bulletin de la Société Préhistorique Française*.
- (in press)** Olszewski, D.I., Aldeias, V., Álvarez-Fernández, E., Blackwell, B., El-Hajraoui, M.A., **Hallett, E.Y.**, Jacobs, Z., Rezek, Z., Richter, D., Skinner, A., Steele, T.E., Talamo, S. The Middle and Later Stone Age at Contrebandiers Cave in Rabat-Témara, Morocco. In A. Beyin, D.K. Wright, J. Wilkins, A. Bouzouggar & D.I. Olszewski (Eds.), *Handbook of Pleistocene Archaeology of Africa: Hominin behavior, geography, and chronology*. Springer.
- (in press)** Thompson, J.C., Bertacchi, A., Keller, H.M., **Hallett, E.Y.**, & Pobiner, B. The Zooarchaeology of Pleistocene Africa. In A. Beyin, D.K. Wright, J. Wilkins, A. Bouzouggar & D.I. Olszewski (Eds.), *Handbook of Pleistocene Archaeology of Africa: Hominin behavior, geography, and chronology*. Springer.
- (in press)** Cerasoni, J.N., **Hallett, E.Y.**, Farr, L., Orijemie, E. A. & Scerri, E. M. L. Iho Eleru. In A. Beyin, D.K. Wright, J. Wilkins, A. Bouzouggar & D.I. Olszewski (Eds.), *Handbook of Pleistocene Archaeology of Africa: Hominin behavior, geography, and chronology*. Springer.
- (2022)** Cerasoni, J.N.*, do Nascimento Rodrigues, F., Tang, Y., **Hallett, E.Y.** Do-It-Yourself Digital Archaeology: Introduction and Practical Applications of Photography and Photogrammetry for the 2D and 3D Representation of Small Objects and Artefacts. *PLOS One*.
- (2022)** Cerasoni, J.N.*, **Hallett, E.Y.**, Ben Arous, E., Beyer, R., Krapp, M., Manica, A., Scerri, E.M.L. Archaeological sites and palaeoenvironments of Pleistocene West Africa. In F. Henselowsky, C. Willmes, and M. Smith (Eds.), “PaleoMaps: representations of Quaternary paleoenvironments, human–environment interaction and human dispersal” special issue. *Journal of Maps*. DOI: 10.1080/17445647.2022.2052767
- 2021** **Hallett, E.Y.***, Marean, C.W., Steele, T.E., Alvarez-Fernández, E., Jacobs, Z., Cerasoni, J.N., Aldeias, V., Scerri, E.M.L., Olszewski, D.I., El-Hajraoui, M., & Dibble, H.L. A worked bone assemblage from 120,000-90,000 year old deposits at Contrebandiers Cave, Atlantic Coast, Morocco. *iScience*, 24(9), p. 102988. DOI: 10.1016/j.isci.2021.102988.
- 2019** Steele, T.E., Álvarez-Fernández, E., & **Hallett-Desguez, E.** (2019). Special Issue: Early Personal Ornaments --- A Review of Shells as Personal Ornamentation during the African Middle Stone Age. *PaleoAnthropology*, 2019, 24-51.

- 2013** Dibble, H.L., Aldeias, V., Jacobs, Z., Olszewski, D.I., Rezek, Z., Lin, S.C., Alvarez-Fernández, E., Barshay-Szmidt, C., **Hallett-Desguez, E.**, Reed, D., Reed, K., Richter, D., Steele, T.E., Skinner, A., Blackwell, B., Doronicheva, E., El-Hajraoui, M. (2013). On the Industrial Attributions of the Aterian and Mousterian of the Maghreb. *Journal of Human Evolution*, 64, 194-210.
- 2012** Dibble, H.L., Aldeias, V., Alvarez-Fernández, E., Blackwell, B.A., **Hallett-Desguez, E.**, Jacobs, Z., Goldberg, P., Lin, S.C., Morala, A., Meyer, M.C., Olszewski, D.I., Reed, K., Reed, D., Rezek, Z., Richter, D., Roberts, R.G., Sandgathe, D., Schurmans, U., Skinner, A.R., Steele, T.E. and El-Hajraoui, M. (2012). New Excavations at the Site of Contrebandiers Cave, Morocco. *PaleoAnthropology*, 2012, 145-201.

Manuscripts in Preparation (*corresponding author, †guest editor)

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- (in prep)** Steele, T.E., Álvarez-Fernández, E., **Hallett, E.Y.** “North Africa” in *Oxford Handbook of Island & Coastal Archaeology*, Eds. S.M. Fitzpatrick and Erlandson, J.M.
- (in prep)** Timpson, A., van der Geer, A.E.A., **Hallett, E.Y.**, Herridge, V.L., Thomas, M.G., Vella, N., Gauci, R., Blinkhorn, J., Groucutt, H., Scerri, E.M.L. Novel Bayesian analysis of presence-only data highlights distinctiveness of Maltese fossil record compared to Sicily. Research manuscript in preparation for *Methods in Ecology and Evolution*.
- (in prep)** **Hallett, E.Y.* †** Taphonomic analysis of Late Pleistocene vertebrate fauna from the Middle and Later Stone Age occupations at Contrebandiers Cave, Atlantic Coast, Morocco. Research manuscript in preparation for accepted special issue of *Journal of Paleolithic Archaeology*.
- (in prep)** **Hallett, E.Y.* †** The vertebrate faunal record from Late Pleistocene archaeological deposits at Contrebandiers Cave, Atlantic Coast, Morocco. Research manuscript in preparation for accepted special issue of *Journal of Paleolithic Archaeology*.
- (in prep)** Worthey, K., **Hallett, E.Y.* †** Reconstructing the paleoecology of Contrebandiers based on the stable isotopic analysis of the Late Pleistocene vertebrate faunal assemblage. Research manuscript in preparation for accepted special issue of *Journal of Paleolithic Archaeology*.
- (in prep)** Steele, T.E., **Hallett, E.Y. †** et al. Coastal marine resource exploitation during the Late Pleistocene at Contrebandiers Cave, Atlantic Coast, Morocco. Research manuscript in preparation for accepted special issue of *Journal of Paleolithic Archaeology*.

- (in prep) **Hallett, E.Y.* †**, Steele, T.E. et al. Human diet and subsistence behavior at Contrebandiers Cave, Morocco: Integrating vertebrate and marine assemblages. Research manuscript in preparation for accepted special issue of *Journal of Paleolithic Archaeology*.
- (in prep) Álvarez-Fernández, E., Steele, T.E., **Hallett, E.Y.** et al. † Ornamental shells from the late Pleistocene deposits of Contrebandiers Cave (Temara, Morocco). Research manuscript in preparation for accepted special issue of *Journal of Paleolithic Archaeology*.

Book Chapters

- 2012** **Hallett-Desguez, E.** (2012). Analyse Archéozoologie de la Macrofaune. In *Préhistoire de la région de Rabat-Témara*, Eds. M.A. El Hajraoui, A. Debénath, R. Nespoulet, and H. Dibble. Villes et Sites Archéologiques du Maroc (VESAM) Volume III. pp. 239-248.
- 2012** Amani, F., Reed, K., **Hallett-Desguez, E.**, Bougariane, B., & Reed, D. (2012). Faunes et Paléoenvironnements. In *Préhistoire de la région de Rabat-Témara*, Eds. M.A. El Hajraoui, A. Debénath, R. Nespoulet, and H. Dibble. Villes et Sites Archéologiques du Maroc (VESAM) Volume III. pp. 211-222.

Invited Book Reviews

- 2019** **Hallett, E.Y.** (2019) Review of the book *Modern Human Origins and Dispersal* edited by Yonathan Sahle, Hugo Reyes-Centeno and Christian Bentz. Tübingen, Kerns Verlag, Words, Bones, Genes, Tools, Volume 2, 2019, 360 pp. Published in *Azania*.

Published abstracts of oral presentations at professional meetings

- 2021** Cerasoni, J.N., Orijemie, E., **Hallett, E.Y.**, Lucas, M., Ashastina, K., Farr, L., Hoehn, A., Kiahtipes, C., Roberts, P., Manica, A., Blinkhorn, J., Scerri, E.M.L. “Late Pleistocene to Holocene palaeoenvironmental reconstruction and human behaviour at Iho Eleru rock shelter, Nigeria.” European Society for the study of Human Evolution, 22-24 September, 2021, Worldwide.
- 2021** Steele, T.E., Álvarez-Fernández, E., **Hallett, E.Y.**, Aldeias, V. Boudad, L., Chakround, A., Grote, M., Olszewski, D.I., El Hajraoui, M.A. “The Late Pleistocene mollusk sample from Contrebandiers Cave (Temara, Morocco): marine resource exploitation and personal ornaments.” Presented in session “Marine resources: food and beads,” organized by E. Álvarez-Fernández. 19th World Congress of UISPP, 2-7 September, 2021, Meknes, Morocco.
- 2021** **Hallett, E.Y.** “Archéozoologie et taphonomie des ensembles osseux des occupations Middle et Later Stone Age de la grotte des Contrebandiers, côte atlantique, Maroc/ Zooarchaeology and taphonomy of the vertebrate faunal assemblage from the Middle and Later Stone Age occupations at Contrebandiers Cave, Atlantic Coast, Morocco.” Paper presented in session “utilisation des

resources animales et végétales,” organized by Human societies and environments in the circum-Mediterranean area, from the Pleistocene to the early Holocene, Colloque en hommage à Emilie Campmas, 8-9 March 2021, Toulouse, France.

- 2019** Tryon, C.A., Lewis, J., Ranhorn, K.L., Marean, C.W., **Hallett, E.**, Patania, I., Mashaka, H., Ogutu, J., Porter, S., Colarossi, D., Quinn, R., Niespolo, E.M., Sharp, W.D. Les séquences de la fin du Quaternaire du centre-nord de la Tanzanie: Archives et fouilles archéologiques de l’abri Kisese II. Cultural dynamics and landscape transformation in a rapidly changing continent: From the Big Dry to the Holocene in East Africa. 25-28 September 2019, Toulouse, France.
- 2019** **Hallett, E.** Taphonomy and zooarchaeology of the vertebrate faunal remains from Middle and Later Stone Age deposits at Contrebandiers Cave, Atlantic Coast, Morocco. Paleoanthropology Society 2019 Annual Meeting, Albuquerque, New Mexico, April 9 and 10, 2019.
- 2018** **Hallett-Desguez, E.,** & Marean, C.W. “Comparing MSA subsistence strategies and technologies: Pinnacle Point, South Africa and Contrebandiers Cave, Morocco.” Paper presented in panel, “Diversity of hominin subsistence strategies during the Middle and Late Pleistocene across the African continent,” organized by Aurore Val and Emilie Campmas. 15th Congress of the PanAfrican Archaeological Association of Prehistory and Related Studies, Rabat, Morocco, September 10-14, 2018.
- 2018** **Hallett-Desguez, E.** “The MSA and LSA vertebrate faunal record at Contrebandiers Cave, Atlantic Coast, Morocco.” Paper presented in panel, “Diversity of hominin subsistence strategies during the Middle and Late Pleistocene across the African continent,” organized by Aurore Val and Emilie Campmas. 15th Congress of the PanAfrican Archaeological Association of Prehistory and Related Studies, Rabat, Morocco, September 10-14, 2018.
- 2018** Steele, T.E., Álvarez-Fernández, E., **Hallett-Desguez, E.**, Aldeias, V., El Hajraoui, M. and Dibble, H.L. “Tick shells, personal ornamentation, and marine resource exploitation during the Late Pleistocene at Contrebandiers Cave (Temara, Morocco).” Paper presented at Paleoanthropology Society 2018 Annual Meeting, Austin, Texas, April 10 and 11, 2018.
- 2017** Steele, T.E., Álvarez-Fernández, E., **Hallett-Desguez, E.**, Aldeias, V., El Hajraoui, M. and Dibble, H.L. “*Nassarius* shells and marine resource exploitation during the Late Pleistocene at Contrebandiers Cave (Temara, Morocco).” Paper presented at “Workshop on Humans’ Earliest Personal Ornaments.” Steinhardt Museum of Natural History at Tel Aviv University, Israel, March 6-8, 2017.
- 2016** Steele, T.E., Álvarez-Fernández, E., **Hallett-Desguez, E.**, Aldeias, V., El Hajraoui, M. and Dibble, H.L. “Coastal marine resource exploitation during the Late Pleistocene at Contrebandiers Cave (Témara, Morocco) / Exploitation des

ressources marines côtières durant la fin du Pléistocène à la Grotte des Contrebandiers (Témara, Maroc).” Paper presented in session, “The role of North Africa in the emergence and development of modern behaviours: Integrated Approach,” organized by Campmas, E., Stoetzel, E., Oujaa, A. and Scerri, E. 23rd Biennial Meeting of the SAfA (Society of Africanist Archaeologists), University of Toulouse, France, June 26-July 2, 2016.

- 2016** Steele, T.E., Álvarez-Fernández, E., **Hallett-Desguez, E.**, El Hajraoui, M. and Dibble, H.L. “Coastal marine resource exploitation during the Late Pleistocene at Contrebandiers Cave (Témara, Morocco).” Paper presented in sponsored symposium, “Fire, Food, Farms, and Fortifications: Recent Advances in the Archaeology of Africa.” SAA Annual Meeting 2016, Orlando, Florida, April 6-10, 2016.
- 2015** **Hallett-Desguez, E.** and Marean, C.W. “A comparison of two African Mediterranean MSA adaptations: the Cape Floral Region and the Maghreb.” Paper presented in the symposium, “Building the Hunter-gatherer’s Paleoscape on the South African Coast: The Archaeological Record,” organized by Naomi Cleghorn and Curtis W. Marean. SAA Annual Meeting, San Francisco, California, April 15-19, 2015.
- 2014** **Hallett-Desguez, E.**, Dibble, H.L., Marean, C.W. and Steele, T.E. “A large and varied bone tool assemblage from Contrebandiers Cave (Atlantic coast of Morocco) dated between ca. 122 ka – 96 ka.” Paper presented at Paleoanthropology Society 2014 Annual Meeting, Calgary, Canada, April 8 and 9, 2014.
- 2012** **Hallett-Desguez, E.** and Reed, K.E. “The Faunal Record at Contrebandiers Cave, Morocco.” Paper presented in the symposium, “The Emergence of Modern Humans: New Evidence from Contrebandiers Cave, Morocco,” organized by H. L. Dibble and V. Aldeias. SAA Annual Meeting, Memphis, Tennessee, April 18-22, 2012.
- 2011** Dibble, H. V. Aldeias, **E. Hallett-Desguez**, J.J. Hublin, Z. Jacobs, D. Richter, K. Reed, D. Reed, R. Roberts, D. Sandgathe, T. Steele & M. A. el Hajraoui. “New Excavations at the Grotte des Contrebandiers, Morocco.” Paper presented at inaugural meeting of the European Society for the study of Human Evolution, Leipzig, Germany, September 24, 2011.

Guest Lectures, Invited Presentations, and Panelist Discussions

- 2022** “Worked bone assemblage, leather, and fur from Contrebandiers Cave, Morocco invited presentation for University of Liverpool Evolutionary Anthropology Webinar Series, February 24, 2022. Video recording: <https://bit.ly/3IBQOMt>

- 2021** “A worked bone assemblage from 120,000-90,000 year old deposits at Contrebandiers Cave, Atlantic Coast, Morocco” presentation for Science Report section of Institute of Human Origins Board Meeting, November 6, 2021.
- 2020** Invited panelist for "Wolf Niche / Human Niche" lecture by Emma Marris for *The Past, Present and Future of the Human Niche* event series organized by the Department of Archaeology, Max Planck Institute for the Science of Human History, November 19, 2020.
- 2020** “Calculating Skeletal Element Abundance” lecture for Department of Archaeology, Zooarchaeology Group, Max Planck Institute for the Science of Human History, April 22, 2020.
- 2020** “Species Distribution Modelling and Vertebrate Palaeontology of Pleistocene Africa” presentation for Department of Archaeology, Max Planck Institute for the Science of Human History, March 2, 2020.
- 2019** “The role of North Africa in the origins and dispersal of modern humans during the Pleistocene” invited presentation for Department of Anthropology, New York University, February 19, 2019.
- 2014** “Modern Human Origins—Recent Findings from North Africa” science presentation for the Institute of Human Origins board meeting, May 2, 2014.
- 2014** “The Middle Stone Age of North Africa” guest lecture for upper division undergraduate/graduate level course “Stone Age of Africa,” Arizona State University, April 15, 2014.
- 2013** Institute of Human Origins tour and Human Evolution guest lecture for undergraduate level course “Historical Geology,” Arizona State University, November 19, and November 20, 2014.
- 2011** “Origins of *Homo sapiens*” guest lecture for undergraduate level course “Bones, Stones, and Human Evolution,” Arizona State University, November 18, 2011.

Fieldwork Reports

- 2021** **Hallett, E.Y.** (2021). Taxonomic and taphonomic report on the vertebrate faunal assemblage from Latnija, Malta, and preliminary taphonomic findings on the vertebrate faunal assemblage from Pender Place, Malta. Approved by Superintendence of Cultural Heritage, Malta.
- 2011** **Hallett, E.** (2011). Zooarchaeology Report. In *Archaeological Excavations of Smuggler’s Cave, Temara*, ed. H.L. Dibble. University of Pennsylvania Museum of Archaeology and Anthropology.
- 2011** **Hallett, E.** (2011). Laboratory Report. In *Archaeological Excavations of Smuggler’s Cave, Temara*, ed. H.L. Dibble. University of Pennsylvania Museum of Archaeology and Anthropology.

- 2010** **Hallett, E.** (2010). Laboratory Report. In *Archaeological Excavations of Smuggler's Cave, Temara*, ed. A. Schurmans and H.L. Dibble. University of Pennsylvania Museum of Archaeology and Anthropology.

Honors and Awards

- 2014** College of Liberal Arts & Sciences Graduate Excellence Award, Arizona State University
- 2013** Donald H. Morris Award for Outstanding Doctoral Student in Evolutionary Anthropology, School of Human Evolution & Social Change, Arizona State University

External Grants

- (submitted)** National Geographic Society, Level I Explorer Funding. Co-Principal Investigator: "Searching for Early Humans in Montane Central Italy". Amount: \$20,000
- 2014** Paleoanthropology Society Travel Grant for participation in Calgary meeting: \$350
- 2012-2013** National Science Foundation Doctoral Dissertation Improvement Grant (BCS 1251354) for "Impacts of climate change on *Homo sapiens* diet and technology in coastal Morocco". Co-Principal Investigator with Dr. Curtis Marean: \$20,916

Internal Grants, Scholarships and Fellowships

- 2017-2018** Graduate Student Assistant Fellowship, Institute of Human Origins
- 2017-2018** University Grad Fellowship, Arizona State University
- 2014-2015** Dissertation Completion Award, School of Human Evolution & Social Change, Arizona State University: \$18,000/year + tuition waiver
- 2013-2014** Dean's Advanced Scholarship, School of Human Evolution & Social Change, Arizona State University: \$18,000/year + tuition waiver
- 2013** University Grad Fellowship, Arizona State University: \$2,022
- 2012** University Grad Fellowship, Arizona State University: \$1,023
- 2011** School of Human Evolution & Social Change Graduate Research Award: \$1,700
- 2011** School of Human Evolution & Social Change Conference Travel Grant: \$200
- 2011-2012** School of Human Evolution & Social Change Teaching Assistant Fellowship: \$13,000/year + tuition waiver
- 2009** Institute of Human Origins Travel Grant: \$4,000
- 2008-2011** Institute of Human Origins Fellowship: \$20,000/year
- 2008-2011** Doctoral Recruiting Fellowship, Arizona State University: \$11,751/year
- 2008-2011** University Grad Fellowship, Arizona State University: \$2,757/year
- 2007-2008** State Need Grant/LEAP, University of Washington
- 2006-2007** Undergrad University Grant, University of Washington
- 2005-2008** Federal Supplemental Grant, University of Washington
- 2005-2008** Federal Pell Grant, University of Washington

University Teaching Experience

- 2019** “Introduction to Archaeological Time Periods” teaching advisor for course on Biomolecular Archaeology. International Max Planck Research School for the Science of Human History.
- 2014** ASB 368: Prehistoric and Historic Hunter-Gatherers. Teaching Assistant. Instructor: Dr. Curtis W. Marean, Arizona State University.
- 2013** ASB 300: Food and Culture (Online Course). Teaching Assistant. Instructor: Dr. Jonathan Maupin, Arizona State University.
- 2013** ASB 410: Poverty, Social Justice and Global Health (Online Course). Grader for online content. Instructor: Dr. Amber Wutich, Arizona State University.
- 2012** ASB 330: Archaeological Method and Theory. Teaching Assistant. Instructor: Dr. Curtis W. Marean, Arizona State University.
- 2011** ASM 104: Bones, Stones, and Human Evolution. Teaching Assistant and Lab Instructor. Instructor: Dr. Kaye E. Reed, Arizona State University.
- 2009** Field school laboratory methods instructor at *Contrebandiers Cave* for Moroccan university students from INSAP, Rabat, Morocco. Under the direction of: Drs. Harold L. Dibble and Mohamed A. El Hajraoui.

Student Advising

- 2021-2024** Rochelle Lorraine Xerri, in progress Master of Arts, Department of Classics and Archaeology, University of Malta, co-supervisor role.

Studied Archaeological Assemblages

- 2020-2021** Identification and isotopic and zooarchaeological analyses of Pleistocene and Holocene vertebrate faunal assemblage from Iho Eleru, Nigeria.
- 2020-2022** Identification and zooarchaeological analysis of Pleistocene vertebrate faunal assemblage from Pender Place, Malta.
- 2020** Identification and zooarchaeological analysis of Pleistocene and Holocene vertebrate faunal assemblages from Latnija, Malta.
- 2012-2019** Analysis of vertebrate faunal assemblage from Kunji Cave, Iran (Pleistocene). ASU, Tempe, USA.
- 2012-2013** Identification and zooarchaeological analysis of vertebrate faunal assemblage from Contrebandiers Cave (Pleistocene). INSAP, Rabat, Morocco.
- 2011** Identification of vertebrate faunal assemblage from Contrebandiers Cave (Pleistocene). INSAP, Rabat, Morocco, under the supervision of Dr. Kaye Reed.
- 2010** Identification of lithic assemblage from Roc de Marsal (Middle Paleolithic). Carsac, France, under the supervision of Dr. Harold Dibble.
- 2009** Identification of human remains from Contrebandiers Cave (Pleistocene). INSAP, Rabat, Morocco.
- 2008-2019** Analysis of Pleistocene vertebrate faunal assemblage from Kobeh Cave, Iran. ASU, Tempe, USA.
- 2007** Identification of Late Pliocene vertebrate faunal remains from Hadar Formation. Hadar, Ethiopia, under the supervision of Dr. Kaye Reed.

Field Experience

- 2020** Unravelling the Rainforest: The Pleistocene Cultural Record of Anyama (Ivory Coast) and its ecological context. Positions: aDNA sampling advisor and fieldwork assistant. PI: Dr. Eleanor Scerri (MPI-SHH). March 2020.
- 2014** South African Coast Paleoclimate, Paleoenvironment, Paleoecology, Paleoanthropology (SACP4), Pinnacle Point, South Africa. Position: Site Technician, Recorder, Total Station Operator and Excavator. PI: Dr. Curtis Marean (Arizona State University). May-July 2014.
- 2012-2013** La Grotte des Contrebandiers, Morocco. Dissertation data collection. June 2012-June 2013.
- 2011** La Grotte des Contrebandiers, Morocco. Position: Faunal Analyst. PIs: Drs. Harold Dibble (University of Pennsylvania), Mohamed Abdeljellil El Hajraoui (Patrimoine Culturel, Rabat). June 2011.
- 2010** La Ferrassie, Dordogne, France. Position: Excavator. PIs: Drs. Harold Dibble (University of Pennsylvania), Shannon McPherron (Max Planck Institute for Evolutionary Anthropology). June-July 2010.
- 2010** Roc de Marsal, Dordogne, France. Position: Excavator. PIs: Drs. Harold Dibble (University of Pennsylvania), Shannon McPherron (Max Planck Institute for Evolutionary Anthropology). June-July 2010.
- 2010** La Grotte des Contrebandiers, Morocco. Positions: Faunal Analyst and Laboratory Director. PIs: Drs. Harold Dibble (University of Pennsylvania), Mohamed Abdeljellil El Hajraoui (Patrimoine Culturel, Rabat). May-June 2010.
- 2009** La Grotte des Contrebandiers, Morocco. Position: Laboratory Director. PIs: Drs. Harold Dibble (University of Pennsylvania), Mohamed Abdeljellil El Hajraoui (Patrimoine Culturel, Rabat). May-June and August 2009.
- 2009** Roc de Marsal, Dordogne, France. Position: Excavator/Laboratory Director. PIs: Drs. Harold Dibble (University of Pennsylvania), Shannon McPherron (Max Planck Institute for Evolutionary Anthropology). June-July 2009.
- 2008** Roc de Marsal, Dordogne, France. Position: Excavator. PIs: Drs. Harold Dibble (University of Pennsylvania), Shannon McPherron (Max Planck Institute for Evolutionary Anthropology). June-July 2008.
- 2007** Hadar Formation, Ethiopia. Participant in Hadar Paleoanthropology Field School. Instructors: Drs. William Kimbel, Kaye Reed, Christopher Campisano (Institute of Human Origins, School of Human Evolution and Social Change, Arizona State University), Erella Hovers (The Hebrew University of Jerusalem). October-November 2007.
- 2007** Jonzac, France. Position: Excavator. PIs: Drs. Shannon McPherron (Max Planck Institute for Evolutionary Anthropology), Marie Soressi (Max Planck Institute for Evolutionary Anthropology, Institut National de Recherches Archéologiques Préventives). June-July 2007.

Certificates

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- 2019** Certificate in Species Distribution Modelling Course, organized by Science Retreats and the Biodiversity Chair at the University of Évora, led by Miguel Araújo and Babak Naimi, Evora, Portugal, November 2019.

Technical Skills

R programming language and software, ArcGIS, ArcMap, QGIS, Adobe Photoshop, Microsoft Access/Office

Laboratory Skills

Identification of human and non-human vertebrate remains; Isotope sampling, preparation, and pre-treatment; ancientDNA sampling; Identification of taphonomic processes on vertebrate bone; 3D scanning microscopy; 3D laser scanning; Scanning electron microscopy (under technician supervision); microCT scanning (under technician supervision)

Reviewer for Peer-Reviewed Journals

African Archaeological Review, Geoarchaeology, Historical Biology, Journal of Archaeological Method and Theory, Quaternary International, Springer (book proposal reviewer)

Selected Media Interviews and Coverage of Published Research

Archaeology Magazine, Top 10 Discoveries of 2021, read here: <https://bit.ly/3u2uUh0>
China Central Television, Top 10 Discoveries of 2021, watch here: <https://bit.ly/3FWp3vW>
Interview on CBC “Quirks & Quarks with Bob McDonald” listen here: <https://bit.ly/3AhP4CQ>
Smithsonian Magazine: <https://bit.ly/3jQBT6L>
Nature Middle East: <https://go.nature.com/3nLZqXJ>
Reuters: <https://reut.rs/3w55ez1>
CNN: <https://cnn.it/3ED4Afw>
Science News: <https://bit.ly/3CDtef6>
The Guardian: <https://bit.ly/3jW9TP8>
Le Monde (French): <https://bit.ly/3w4FD9o>
Scientias (Dutch): <https://bit.ly/2ZDITxB>
El Mundo (Spanish): <https://bit.ly/2ZRfhMt>
Publico (Portuguese): <https://bit.ly/3o4KHY7>
ABC (Spanish): <https://bit.ly/3mAxWoE>
Le Scienze (Italian): <https://bit.ly/3bXRJmO>
Inverse: <https://bit.ly/3pU6jZs>
Interview on zooarchaeology and shell beads from Contrebandiers Cave featured on “Naked Science: The World’s Oldest Child,” *National Geographic Television*. Initial air date: June 6, 2011.

Languages

English (native)
French (proficient reading and writing, good speaking)
Japanese (basic reading, writing, speaking)

Professional Society Memberships

European Society for the study of Human Evolution
Paleoanthropology Society
Society for American Archaeology
PanAfrican Archaeological Association for Prehistory and Related Studies
American Association of Physical Anthropologists

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Non-Academic, Professional, Clinical Employment

2016-2019 Medical Laboratory Scientist at The Orthopedic and Spine Inpatient Surgical Hospital (O:A:S:I:S)
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Duties included daily quality control; hematology; blood gas, blood chemistry and coagulation testing; urinalysis; blood banking, blood typing and patient/donor cross matching; preparation of tissue, bone, and hardware specimens for pathology; maintenance of VITROS 350 chemistry analyzer, PENTRA, COBAS and SYSMEX equipment. Supervisor: Justin Schultz, MLT.