

# Curtis William Marean

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**BUSINESS ADDRESS:** Institute of Human Origins, School of Human Evolution and Social Change, PO Box 872402, Arizona State University, Tempe, AZ 85287-2402.

**COMMUNICATIONS:** business phone = 480-965-7796, e-mail = curtis.marean@asu.edu

**RESEARCH INTERESTS:** Modern human origins, African Stone Age, paleoanthropology, zooarchaeology, taphonomy, paleoecology, paleoenvironments, paleoclimatology, human ecology, past and present hunters and gatherers, grassland and coastal ecosystems.

**DISSERTATION TITLE:** Late Quaternary Paleoenvironments and Faunal Exploitation in East Africa (Advisor: J. Desmond Clark)

## **EDUCATIONAL BACKGROUND**

University of California at Berkeley - Ph.D. August 1990.

University of California at Berkeley - entered September 1983, M.A. awarded May 1985.

Pennsylvania State University - entered 1978 and graduated with a BA in Anthropology with High Distinction in May 1982.

Clements Scholar at Fort Burgwin Archaeological Research Center, a division of Southern Methodist University, summer of 1981.

Stroudsburg High School - graduated 1978

## **EMPLOYMENT HISTORY**

Associate Director, Institute of Human Origins, Arizona State University, Tempe, AZ 85287-4101

Professor of anthropology in School of Human Evolution and Social Change and Institute of Human Origins, Arizona State University, 2001-present

Associate professor of anthropology, SUNY at Stony Brook 1996-2001

Assistant professor of anthropology, SUNY at Stony Brook 1990-1995

## **AWARDS, FELLOWSHIPS, AND SCHOLARSHIPS**

Foundation Professorship – Arizona State University – 2020-2025

Pomerance Award for Scientific Contributions to Archaeology, Archaeological Institute of America - 2016

Foundation Professorship – Arizona State University – 2015-2020

Honorary Professorship, Nelson Mandela University - 2015

Faculty Achievement Award in Defining Edge Research: Social Science at ASU - 2011

Rydell Professorship at Gustavus Adolphus College - 2009

Undergraduate Teaching Award, Division of Social and Behavioral Sciences, SUNY at Stony Brook - 1993

Andrew and Mary Thompson Rocca Scholar in African Studies, University of California at Berkeley - 1988/1989

Andrew and Mary Thompson Rocca Scholar in African Studies, University of California at Berkeley - 1986/1987

Regents Traveling Fellowship, University of California at Berkeley - 1986/1987

Outstanding Teaching Assistant Award, Department of Educational Development, University of California at Berkeley - 1986

Outstanding Teaching Assistant Award, Department of Educational Development, University of California at Berkeley - 1985

Charles Fish Fellowship, University of California at Berkeley - 1984/1985

Clements Fellowship, Southern Methodist University - 1981

## **PEER REVIEW PUBLICATIONS**

1. Brooke, C.F., Marean, C.W., Wren, C.D., Fritz, H., Venter, J.A., 2021. Retrodicting large herbivore biomass for the last glacial maximum on the Palaeo-Agulhas Plain (South Africa) using modern ecological knowledge of African herbivore assemblages and rainfall. *Quaternary Research*, 1-15.
2. Claudine Gravel-Miguel, John K. Murray, Benjamin J. Schoville, Colin D. Wren, and Curtis W. Marean. (2021). Exploring variability in lithic armature discard in the archaeological record. *Journal of Human Evolution*. 155: 102981. <https://doi.org/10.1016/j.jhevol.2021.102981>.
3. Charles W. Helm, Hayley C. Cawthra, Richard M. Cowling, Jan C. De Vynck, Martin G. Lockley, Curtis W. Marean, Mark G. Dixon, Carina J.Z. Helm, Willo Stear, Guy H.H. Thesen, Jan A. Venter. 2021. Protecting and preserving South African aeolianite surfaces from graffiti. *Koedoe*. 63(1), a1656.<https://doi.org/10.4102/koedoe.v63i1.1656>.
4. Murray, J.K., Harris, J.A., Oestmo, S., Martin, M., Marean, C.W., 2020. A new approach to identify heat treated silcrete near Pinnacle Point, South Africa using 3D microscopy and Bayesian modeling. *Journal of Archaeological Science: Reports* 34, 102622. <https://doi.org/10.1016/j.jasrep.2020.102622>
5. Karkanas, P., Marean, C.W., Bar-Matthews, M., Jacobs, Z., Fisher, E., Braun, K., 2020. Cave life histories of non-anthropogenic sediments help us understand associated archaeological contexts. *Quaternary Research* 99, 270-289. <https://doi.org/10.1017/qua.2020.72>
6. Pomeroy, E., Hunt, C.O., Reynolds, T., Abdulmutalib, D., Asouti, E., Bennett, P., Bosch, M., Burke, A., Farr, L., Foley, R., French, C., Frumkin, A., Goldberg, P., Hill, E., Kabukcu, C., Lahr, M.M., Lane, R., Marean, C., Maureille, B., Mutri, G., Miller, C.E., Mustafa, K.A., Nymark, A., Pettitt, P., Sala, N., Sandgathe, D., Stringer, C., Tilby, E., Barker, G., 2020. Issues of theory and method in the analysis of Paleolithic mortuary behavior: A view from Shanidar Cave. *Evolutionary Anthropology: Issues, News, and Reviews* 29, 263-279. <https://doi.org/10.1002/evan.21854>
7. Curtis W. Marean, Richard Cowling, and Janet Franklin. 2020. The Palaeo-Agulhas Plain: Temporal and Spatial Variation in an Extraordinary Extinct Ecosystem of the Pleistocene of the Cape Floristic Region. *Quaternary Science Reviews* 235, <https://doi.org/10.1016/j.quascirev.2019.106161>
8. Hope M. Williams, Julia A. Lee-Thorp, Thalassa Matthews, Curtis W. Marean. 2020. Micromammal and macromammal stable isotopes from a MIS 6 fossil hyena den (Pinnacle Point Site 30, south coast, South Africa) reveal differences in relative contribution of C4 grasses to local and regional palaeovegetation on the Palaeo-Agulhas Plain. *Quaternary Science Reviews* 235, <https://doi.org/10.1016/j.quascirev.2020.106221>
9. Hodgkins, J., Marean, C.W., Venter, J., Richardson, L., Roberts, P., Zech, J., Difford, M., Copeland, S.R., Keller, H.M., Lee-Thorp, J.A., 2020. An isotopic test of the seasonal migration hypothesis for large grazing ungulates inhabiting the Palaeo-Agulhas Plain (south coast, South Africa). *Quaternary Science Reviews* 235, <https://doi.org/10.1016/j.quascirev.2020.106221>
10. Cawthra, H.C., Anderson, R.J., De Vynck, J.C., Jacobs, Z., Jerardino, A., Kyriacou, K., Marean, C.W., 2020. Migration of Pleistocene shorelines across the Palaeo-Agulhas Plain: Evidence from dated sub-bottom profiles and archaeological shellfish assemblages. *Quaternary Science Reviews* 235, 106107. <https://doi.org/10.1016/j.quascirev.2019.106107>

11. Jan De Vynck, Curtis W. Marean, Kim Hill, Mark Difford, Richard Cowling, Robert Anderson. 2020. The resilience to human foraging of intertidal resources on the south Cape coast of South Africa and the implications for pre-historic foragers. *Quaternary Science Reviews* 235, <https://doi.org/10.1016/j.quascirev.2019.106050>
12. Venter, J.A., Brooke, C., Marean, C.W., Fritz, H., Helm, C.W., 2020. Large mammals of the Palaeo-Agulhas Plain showed resilience to extreme climate change but vulnerability to modern human impacts. *Quaternary Science Reviews* 235, <https://doi.org/10.1016/j.quascirev.2019.106041>
13. Cowling, R.M., Potts, A.J., Franklin, J., Midgley, G.F., Engelbrecht, F., Marean, C.W., 2020. Describing a drowned Pleistocene ecosystem: Last Glacial Maximum vegetation reconstruction of the Palaeo-Agulhas Plain. *Quaternary Science Reviews* 235. <https://doi.org/10.1016/j.quascirev.2019.105866>
14. Matthews, T., Marean, C.W., Cleghorn, N., 2020. Past and present distributions and community evolution of Muridae and Soricidae from MIS 9 to MIS 1 on the edge of the Palaeo-Agulhas Plain (south coast, South Africa). *Quaternary Science Reviews* 235. <https://doi.org/10.1016/j.quascirev.2019.05.026>
15. Helm, C.W., Cawthra, H.C., Cowling, R.M., De Vynck, J.C., Lockley, M.G., Marean, C.W., Thesen, G.H.H., Venter, J.A., 2020. Pleistocene vertebrate tracksites on the Cape south coast of South Africa and their potential palaeoecological implications. *Quaternary Science Reviews* 235. <https://doi.org/10.1016/j.quascirev.2019.07.039>
16. Cawthra, H.C., Cowling, R.M., Andò, S., Marean, C.W., 2020. Geological and soil maps of the Palaeo-Agulhas Plain for the Last Glacial Maximum. *Quaternary Science Reviews* 235. <https://doi.org/10.1016/j.quascirev.2019.07.040>
17. Colin Wren, Eric Shook, Susan Botha, Kim Hill, Marco Janssen, Jan Venter, Curtis Marean, Brian Wood, Jacob Harris, Richard Cowling, Erich Fisher, Jan de Vynck, Janet Franklin., 2020. The foraging potential of the Holocene Cape South Coast of South Africa without the Palaeo-Agulhas Plain. *Quaternary Science Reviews* 235. <https://doi.org/10.1016/j.quascirev.2019.06.012>
18. Braun, K., Bar-Matthews, M., Matthews, A., Ayalon, A., Zilberman, T., Cowling, R.M., Fisher, E.C., Herries, A.I.R., Brink, J.S., Marean, C.W., 2020. Comparison of climate and environment on the edge of the Palaeo-Agulhas Plain to the Little Karoo (South Africa) in Marine Isotope Stages 5–3 as indicated by speleothems. *Quaternary Science Reviews* 235. <https://doi.org/10.1016/j.quascirev.2019.06.025>
19. Esteban, I., Marean, C.W., Cowling, R.M., Fisher, E.C., Cabanes, D., Albert, R.M., 2020. Palaeoenvironments and plant availability during MIS 6 to MIS 3 on the edge of the Palaeo-Agulhas Plain (south coast, South Africa) as indicated by phytolith analysis at Pinnacle Point. *Quaternary Science Reviews* 235. <https://doi.org/10.1016/j.quascirev.2019.02.022>
20. Hirniak, J.N., Smith, E.I., Johnsen, R., Ren, M., Hodgkins, J., Orr, C., Negrino, F., Riel-Salvatore, J., Fitch, S., Miller, C.E., Zerboni, A., Mariani, G.S., Harris, J.A., Gravel-Miguel, C., Strait, D., Peresani, M., Benazzi, S., Marean, C.W., 2020. Discovery of cryptotephra at Middle–Upper Paleolithic sites Arma Veirana and Riparo Bombrini, Italy: a new link for broader geographic correlations. *Journal of Quaternary Science* 35: 199-212. <https://doi.org/10.1002/jqs.3158>
21. Francois A. Engelbrecht, Curtis W. Marean, Richard Cowling, Alastair J. Potts, Christien Engelbrecht Ramapulana Nkoana, David O’Neal, Erich Fisher, Eric Shook, Janet Franklin, Frank Neumann, Louis Scott, Marcus Thatcher, John L. McGregor, Jacobus Van der Merwe, Zane Dedekind, and Mark Difford. 2019.

Downscaling Last Glacial Maximum climate over southern Africa. *Quaternary Science Reviews*.  
<https://doi.org/10.1016/j.quascirev.2019.105879>.

22. Jessica C. Thompson, Susana Carvalho, Curtis W. Marean, Zeresenay Alemseged., 2019. The origins of the human predatory pattern: The transition to large animal exploitation by early hominins. *Current Anthropology* 60: 1-23.
23. Emma Loftus, Judith Sealy, Julia Lee-Thorp, Curtis W. Marean, Melanie Leng., 2019. Seasonal scheduling of shellfish collection in the Middle and Later Stone Ages of southern Africa. *Journal of Human Evolution* 128: 1-16.
24. Wren, C.D., Atwater, C., Hill, K., Janssen, M.A., De Vynck, J.C., Marean, C.W., 2018. An agent-based approach to weighted decision making in the spatially and temporally variable South African Palaeoscape, in: *Proceedings of the 44th Computer Applications and Quantitative Methods in Archaeology Conference (CAA 2016)*. Archeopress, Oslo, Norway, pp. 507–522.
25. Braun, K., Bar-Matthews, M., Matthews, A., Ayalon, A., Cowling, R.M., Karkanas, P., Fisher, E.C., Dyez, K., Zilberman, T., Marean, C.W., 2019. Late Pleistocene records of speleothem stable isotopic compositions from Pinnacle Point on the South African south coast. *Quaternary Research*, 1-24.
26. Helm, C.W., McCrea, R.T., Cawthra, H.C., Lockley, M.G., Cowling, R.M., Marean, C.W., Thesen, G.H.H., Pigeon, T.S., Hattlingh, S., 2018. A New Pleistocene Hominin Tracksite from the Cape South Coast, South Africa. *Nature: Scientific Reports* 8, 3772.
27. Tryon, C.A., Lewis, J.E., Ranhorn, K.L., Kwekason, A., Alex, B., Laird, M.F., Marean, C.W., Niespolo, E., Nivens, J., Mabulla, A.Z.P., 2018. Middle and Later Stone Age chronology of Kisese II rockshelter (UNESCO World Heritage Kondoa Rock-Art Sites), Tanzania. *PLOS ONE* 13, e0192029.
28. Esteban, I., Marean, C.W., Fisher, E.C., Karkanas, P., Cabanes, D., Albert, R.M., 2018. Phytoliths as an indicator of early modern humans plant gathering strategies, fire fuel and site occupation intensity during the Middle Stone Age at Pinnacle Point 5-6 (south coast, South Africa). *PLOS ONE* 13, e0198558.
29. Eugene I. Smith, Zenobia Jacobs, Racheal Johnsen, Minghua Ren, Erich C. Fisher, Simen Oestmo, Jayne Wilkins, Jacob A. Harris, Panagiotis Karkanas, Shelby Fitch, Amber Ciravolo, Deborah Keenan, Naomi Cleghorn, Christine S. Lane, Thalassa Matthews and Curtis W. Marean. (2018) Humans thrived in South Africa through the Toba eruption about 74,000 years ago. *Nature* doi:10.1038/nature25967.
30. Charles W. Helm, Hayley C. Cawthra, Richard M. Cowling, Jan C. De Vynck, Curtis W. Marean, Richard T. McCrea, and Renee Rust (2018). Palaeoecological Implications of Giraffe Tracks In Late Pleistocene Aeolianites On The Cape South Coast. *South Africa Journal of Science*, 114(1/2), 8 pages, Article number: 2017-0266. <http://dx.doi.org/10.17159/sajs.2018/20170266>.
31. Esteban, I., De Vynck, J.C., Singels, E., Vlok, J., Marean, C.W., Cowling, R.M., Fisher, E.C., Cabanes, D., Albert, R.M., 2017. Modern soil phytolith assemblages used as proxies for Paleoscape reconstruction on the south coast of South Africa. *Quaternary International* 434, 160-179.
32. Erik Otárola-Castillo, Melissa G. Torquato, Hannah C. Hawkins, Emma James, Jacob A. Harris, Curtis W. Marean, Shannon P. McPherron and Jessica C. Thompson. (2017) Differentiating between cutting actions on bone using 3D Geometric Morphometrics and Bayesian analyses with implications to human evolution. *Journal of Archaeological Science: Reports* 89: 56-67. doi.org/10.1016/j.jas.2017.10.004

33. H.C. Cawthra, Z. Jacobs, J.S. Compton, E.C. Fisher, P. Karkanas, Curtis W. Marean. (2017) Palaeoshoreline Depositional and Sea-Level History from MIS 6 (Termination II) To M3 3 on the Southern Margin Continental Shelf Of South Africa. *Quaternary Science Reviews* 181: 156-172.
34. Jacob A. Harris, Curtis W. Marean, Kiona Ogle, Jessica Thompson. (2017) The trajectory of bone surface modification studies in paleoanthropology and a new Bayesian solution to the identification controversy. *Journal of Human Evolution* 110: 69-81.
35. Frederick E. Grine, Curtis W. Marean, J. Tyler Faith, Wendy Black, Carrie S. Mongle, Erik Trinkaus, Stephan G. le Roux, Anton du Plessis (2017) Further human fossils from the Middle Stone Age deposits of Die Kelders Cave 1, Western Cape Province, South Africa. *Journal of Human Evolution* 109: 70-78.
36. Lorena Becerra-Valdivia, Katerina Douka, Daniel Comeskey, Behrouz Bazgirb, Nicholas J. Conard, Curtis W. Marean, Andreu Ollé, Marcel Ott, Laxmi Tumung, Mohsen Zeidi, Thomas F.G. Higham (2017) Chronometric investigations of the Middle to Upper Paleolithic transition in the Zagros Mountains using AMS radiocarbon dating and Bayesian age modelling. *Journal of Human Evolution* 109: 57-69.
37. Jayne Wilkins, Kyle S. Brown, Simen Oestmo, Telmo Pereira, Kathryn L. Ranhorn, Benjamin J. Schoville, and Curtis W. Marean. (2017) Lithic technological responses to Late Pleistocene glacial cycling at Pinnacle Point Site 5-6, South Africa. *PLOS ONE* 12: e0174051.
38. Alberto Collareta, Curtis W. Marean, Antonieta Jerardino, and Mark Bosselaers. (2017) *Cetopirus complanatus* (Cirripedia Coronulidae) from the late Middle Pleistocene human settlement of Pinnacle Point 13B. *Zootaxa* 4237: 393–400.
39. Frederick E. Grine, Sarah Wurz, and Curtis W. Marean. (2017) The Middle Stone Age human fossil record from Klasies River Main Site. *Journal of Human Evolution* 103: 53-78.
40. Judith Sealy, Julia Lee-Thorp, Emma Loftus, J. Tyler Faith and Curtis W. Marean. (2016) Late Quaternary environmental change in the Southern Cape, South Africa from stable carbon and oxygen isotopes in faunal tooth enamel from Boomplaas Cave. *Journal of Quaternary Science* 8: 919-927.
41. Elzanne Singels, Karen J. Esler, Richard M Cowling, Alastair J Potts, Curtis W. Marean, and Jan De Vynck. (2016) Foraging Potential of Underground Storage Organ Plants in the Southern Cape, South Africa. *Journal of Human Evolution* 101: 79-89.
42. Curtis W. Marean. (2016) The transition to foraging for dense and predictable resources and its impact on the evolution of modern humans. *Philosophical Transactions of the Royal Society B* 371: 20150239. <http://dx.doi.org/10.1098/rstb.2015.0239>.
43. Beatrice Demarchi, Shaun Hall, Teresa Roncal-Herrero, Colin L Freeman, Jos Woolley, Molly K Crisp, Julie Wilson, Anna Fotakis, Roman Fischer, Benedikt M Kessler, Rosa Rakownikow Jersie-Christensen, Jesper V Olsen, James Haile, Jessica Thomas, Curtis W Marean, John Parkington, Samantha Presslee, Julia Lee-Thorp, Peter Ditchfield, Jacqueline F Hamilton, Martyn W Ward, Chunting Michelle Wang, Marvin D Shaw, Terry Harrison, Manuel Domínguez-Rodrigo, Ross DE MacPhee, Amandus Kwekason, Michaela Ecker, Liora Kolska Horwitz, Michael Chazan, Roland Kroger, Jane Thomas-Oates, John H Harding, Enrico Cappellini, Kirsty Penkman, Matthew J Collins. (2016) Protein sequences bound to mineral surfaces persist into deep time. *eLife* 5: e17092. <http://dx.doi.org/10.7554/eLife.17092>.

44. J. Tyler Faith, Ph.D.; David Patterson; Nick Blegen; Chris J O'Neill; Curtis W Marean; Daniel J Peppe; Christian A Tryon. (2016) Size variation in *Tachyoryctes splendens* (Mammalia, Spalacidae) and its implications for late Quaternary temperature change in equatorial East Africa. *Quaternary Science Reviews* 140: 39-48.
45. Jan C De Vynck, Robert Anderson, Chloe Atwater, Richard M Cowling, Erich C. Fisher, Curtis W Marean, Robert S Walker. (2016) Return rates from intertidal foraging from Blombos Cave to Pinnacle Point: understanding early human economies. *Journal of Human Evolution* 92: 101–115.
46. Jamie Hodgkins, Curtis W. Marean, Alain Turq, Dennis Sandgathe, Shannon P. McPherron, Harold Dibble. (2016) Climate-mediated shifts in Neandertal subsistence behaviors at Pech IV and Roc de Marsal (Dordogne Valley, France). *Journal of Human Evolution* 96: 1-18.
47. Sandi R Copeland, Hayley C Cawthra, Erich C. Fisher, Julia A Lee-Thorp, Richard M Cowling, Petrus J Le Roux, Jamie Hodgkins, Curtis W Marean. (2016). Strontium Isotope Investigation of Ungulate Movement Patterns on the Pleistocene Paleo-Agulhas Plain of the Greater Cape Floristic Region, South Africa. *Quaternary Science Reviews* 141: 65-84.
48. Jan C. De Vynck, Richard M. Cowling, Alastair J. Potts, and Curtis W. Marean. (2016) Seasonal availability of edible underground and aboveground carbohydrate resources to human foragers on the Cape south coast, South Africa. *PeerJ* 3: e1713.
49. James R. McGrath, Naomi Cleghorn, Betina Gennari, Struan Henderson, Katharine Kyriacou, Cindy Nelson-Viljoen, Peter Nilssen, Leesha Richardson, Christopher Shelton, Jayne Wilkins, Curtis W. Marean. (2015). The Pinnacle Point Shell Midden Complex: A High Resolution Mid- To Late Holocene Record Of Later Stone Age Coastal Foraging Along The Southern Cape Coast Of South Africa. *South African Archaeological Bulletin* 70: 209-219.
50. Invited paper - Curtis W. Marean. (2015) An Evolutionary Anthropological Perspective on Modern Human Origins. *Annual Review of Anthropology* 44: 533-556.
51. Jessica C. Thompson, Shannon P McPherron, René Bobe, Denne Reed, W. Andrew Barr, Jonathan Wynn, Curtis W. Marean, Denis Geraads, Zeresenay Alemseged. (2015) Taphonomy of fossils from the hominin-bearing deposits at Dikika, Ethiopia. *Journal of Human Evolution* 85: 112-135.
52. P. Karkanas, K.S. Brown, E. C. Fisher, Z. Jacobs, C.W. Marean. (2015) Interpreting human behavior from depositional rates and combustion features through the study of sedimentary microfacies at site Pinnacle Point 5-6, South Africa. *Journal of Human Evolution* 85: 1-21.
53. H. C. Cawthra, Compton, J. S., Fisher, E. C., Marean, C. W., (2015). Submerged shorelines and landscape features offshore of Mossel Bay, South Africa. In: Harff, J., Bailey, G., Lüth F. (Eds.) *Geology and Archaeology: Submerged landscapes of the continental shelf*. Special Publication of the Geological Society of London, 411, 219–233. DOI: 10.1144/SP411.11.
54. Curtis W. Marean, Robert J. Anderson, Miryam Bar-Matthews, Kerstin Braun, Hayley C. Cawthra, Richard M. Cowling, Francois Engelbrecht, Karen J. Esler, Erich Fisher, Janet Franklin, Kim Hill, Marco Janssen, Alastair J. Potts, and Rainer Zahn. (2015) A New Research Strategy for Integrating Studies of Paleoclimate, Paleoenvironment, and Paleoanthropology. *Evolutionary Anthropology* 24: 62-72.

55. Fisher, E.C., Akkaynak, D., Harris, J., Herries, A.I.R., Jacobs, Z., Karkanas, P., Marean, C.W., McGrath, J.R., (2015). Technical considerations and methodology for creating high-resolution, color-corrected, and georectified photomosaics of stratigraphic sections at archaeological sites, *Journal of Archaeological Science* 57: 380-394.
56. Franklin, J., Alastair Potts, Erich Fisher, Richard Cowling, and Curtis W. Marean (2015). Paleodistribution modeling in archaeology and paleoanthropology. *Quaternary Science Reviews* 110: 1-14.
57. Marean, C.W. (2014). The origins and significance of coastal resource use in Africa and Western Eurasia. *Journal of Human Evolution* 77: 17-40.
58. Marean, C.W., Hayley C. Cawthra, Richard M. Cowling, Karen J. Esler, Erich Fisher, Antoni Milewski, Alastair J. Potts, Elzanne Singels, Jan De Vynck. (2014). Stone Age People in a Changing South African Greater Cape Floristic Region, In *Fynbos: Ecology, Evolution, and Conservation of a Megadiverse Region*, editors Nicky Allsopp, Jonathan F. Colville, and Tony Verboom. Oxford University Press, Oxford, 164-199.
59. Oestmo, S., Schoville B.J., Wilkins J., Marean C.W. (2014) A Middle Stone Age Paleoscape near the Pinnacle Point caves, Vleesbaai, South Africa. *Quaternary International* 350: 147-168. DOI: 10.1016/j.quaint.2014.07.043.
60. Fisher, E.C., Albert, R.M., Botha, G., Cawthra, H.C., Esteban, I., Harris, J., Jacobs, Z., Jerardino, A., Marean, C.W., Neumann, F.H., Partridge, J., Poupert, M., Venter, J., (2013). Archaeological Reconnaissance for Middle Stone Age Sites along the Pondoland Coast, South Africa. *PaleoAnthropology*, 104-137. doi:10.4207/PA.2013.ART82.
61. Robyn Pickering, Zenobia Jacobs, Andy I.R. Herries, Panagiotis Karkanas, Miryam Bar-Matthews, Jon D. Woodhead, Peter Kappen, Erich Fisher, Curtis W. Marean. (2013). Paleoanthropologically Significant South African Sea Caves dated to 1.0 Million Years using a combination of U-Pb, TT-OSL and palaeomagnetism. *Quaternary Science Reviews* 65: 39-52.
62. Kyle S. Brown, Curtis W. Marean, Zenobia Jacobs, Benjamin J. Schoville, Simen Oestmo, Erich C. Fisher, Jocelyn Bernatchez, Panagiotis Karkanas, and Thalassa Matthews. (2012). An Early and Enduring Advanced Technology Originating 71,000 Years Ago in South Africa. *Nature* 491: 590-593, plus 35 page on-line supplementary information. doi:10.1038/nature11660.
63. J. T. Faith, R. Potts, T. W. Plummer, L. C. Bishop, C. W. Marean, C. A. Tryon. (2012). New perspectives on middle Pleistocene change in the large mammal faunas of East Africa: *Damaliscus hypsodon* sp. nov. (Mammalia, Artiodactyla) from Lainyamok, Kenya. *Palaeogeography, Palaeoclimatology, Palaeoecology* 361–362: 84–93.
64. D. L. Roberts, P. Karkanas, Z. Jacobs, C. W. Marean, R. G. Roberts. (2012). Melting ice sheets 400,000 years ago raised sea level by 13 m: past analogue for future trends. *Earth and Planetary Science Letters* 357–358: 226–237.
65. Rosa Albert and C.W. Marean. (2012). The Exploitation Of Plant Resources By Early Homo Sapiens: The Phytolith Record From Pinnacle Point 13B Cave, South Africa. *International Journal of Geoarchaeology*. 27: 363–384.

66. Curtis W. Marean. (2011). Coastal South Africa and the co-evolution of the modern human lineage and coastal adaptations. In: *Trekking the Shore: Changing Coastlines and the Antiquity of Coastal Settlement*, edited by Nuno Bicho, Jonathan A. Haws, and Loren G. Davis, New York: Springer, pp. 421-440.
67. Zenobia Jacobs, Richard G. Roberts, Panagiotis Karkanas, Curtis W. Marean, David L. Roberts. (2011) Development of the SAR TT-OSL Procedure for Dating of Middle Pleistocene Beach and Dune Deposits along the Southern Cape Coast of South Africa. *Quaternary Geochronology* 6: 491-513.
68. Thalassa Matthews, Any Rector, Zenobia Jacobs, Andy I.R., and Curtis W. Marean. (2011). Environmental implications of micromammals accumulated close to the MIS 6 to MIS 5 transition at Pinnacle Point Cave 9 (Mossel Bay, Western Cape Province, South Africa). *Palaeogeography, Palaeoclimatology, Palaeoecology*. 302:213–229
69. Guest Editor of Special Issue: C.W. Marean. (2010).The Middle Stone Age at Pinnacle Point Cave 13B, South Africa. *Journal of Human Evolution* 59: 231-445.
70. Curtis W. Marean, Miryam Bar-Matthews, Erich Fisher, Paul Goldberg, Andy Herries, Panagiotis Karkanas, Peter J. Nilssen, and Erin Thompson. (2010). The stratigraphy of the Middle Stone Age sediments at Pinnacle Point Cave 13B (Mossel Bay, Western Cape Province, South Africa). *Journal of Human Evolution* 59: 234-255.
71. Antonieta Jerardino and Curtis W. Marean. (2010). Shellfish gathering, marine palaeoecology and modern human behavior: perspectives from Cave PP13b, Pinnacle Point, South Africa. *Journal of Human Evolution* 59: 412-429.
72. Curtis W. Marean. (2010). Pinnacle Point Cave 13B (Western Cape Province, South Africa).in context: The Cape Floral Kingdom, Shellfish, and Modern Human Origins. *Journal of Human Evolution* 59: 425-443.
73. Shannon P. McPherron, Zeresenay Alemseged, Curtis W. Marean, Jonathan G. Wynn, Denne´ Reed, Denis Geraads, Rene´ Bobe and Hamdallah A. Be´arat (2010).Evidence for stone-tool-assisted consumption of animal tissues before 3.39 million years ago at Dikika, Ethiopia. *Nature* 466: 857-860, plus 45 page on-line supplementary information.
74. Miryam Bar-Matthews, Curtis W. Marean, Zenobia Jacobs, Panagiotis Karkanas, Erich C. Fisher, Andy I.R. Herries, Kyle Brown, Hope M. Williams, Jocelyn Bernatchez, Avner Ayalon, and Peter J. Nilssen (2010).A high resolution and continuous isotopic speleothem record of paleoclimate and paleoenvironment from 90-53 ka from Pinnacle Point on the south coast of South Africa. *Quaternary Science Reviews* 29: 2131-2145.
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76. T. Matthews, C.W. Marean and P.J. Nilssen. (2009). Micromammals from the Middle Stone Age (92 000 – 167 000 ka).at Cave PP13B, Pinnacle Point, south coast, South Africa. *Paleontologia Africana* 44: 112–120.
77. J. E. Scott and C. W. Marean. (2009). Paleolithic hominin remains from Eshkaft-e Gavi (southern Zagros Mountains,Iran): description, affinities, and evidence for butchery. *Journal of Human Evolution* 57: 248-259



78. K. S. Brown, C. W. Marean, A. I. R. Herries, Zenobia Jacobs, C. Tribolo, D. Braun, D. L. Roberts, M. C. Meyer, and J. Bernatchez. (2009). Fire as an Engineering Tool of Early Modern Humans. *Science* 325:859-862, plus 35 page on-line supplementary material.
79. Invited paper - C. Peters, R. Blumenschine, P. Andrews, M. Armour-Chelu, R. Bernor, R. Bonnefille, R., C.W. Marean (2008). Paleocology - landscape evolution, origins of biodiversity, climate change. In *Serengeti III: Human Impacts on Ecosystem Dynamics*, edited by T. Sinclair, C. Packer, S. Mduma, and J.M. Fryxell, pp. 47-95. University of Chicago Press.
80. Invited paper – E. Thompson and C.W. Marean (2008). The Mossel Bay Lithic Variant: 120 years of Middle Stone Age research from Cape St. Blaize Cave to Pinnacle Point. *South African Archaeological Bulletin: Goodwin Series* 10: 90–104.
81. C. W. Marean, M. Bar-Matthews, J. Bernatchez, E. Fisher, P. Goldberg, A. I.R. Herries, Z. Jacobs, A. Jerardino, P. Karkanas, T. Minichillo, P. J. Nilssen, E. Thompson, I. Watts, and H. M. Williams. (2007). Early human use of marine resources and pigment in South Africa during the Middle Pleistocene. *Nature* 449: 905-908, plus 44 page on-line supplementary information.
82. J. Tyler Faith, C. W. Marean, and Anna K. Behrensmeier (2007). Carnivore Competition, Bone Destruction, and Bone Density. *Journal of Archaeological Science* 34: 2025-2034.
83. Invited paper - N. Cleghorn and C. W. Marean (2007). The destruction of human-discarded bone by carnivores: the growth of a general model for bone survival and destruction in zooarchaeological assemblages. *African Taphonomy: A Tribute to the Career of C.K. Bob Brain*, edited by T.R. Pickering, N. Toth, and K. Schick. Stone Age Press, Bloomington, pp. 13-42.
84. Catherine Bird, Tom Minichillo, and C. W. Marean. (2007). Edge damage distribution at the assemblage level on Middle Stone Age lithics: an image-based GIS approach. *Journal of Archaeological Science* 34: 771-780.
85. William E. Banks, Francesco d’Errico, Harold Dibble, Leonard Krishtalka, Dixie West, David Anderson, A. Townsend Peterson, Michel Crucifix, J. Christopher Gillam, C. W. Marean, María-Fernanda Sánchez-Goñi, Barbara Wohlfarth. (2006). Old Questions, New Tools: Exploring the Potential of Eco-Cultural Niche Modelling for Reconstructing the Geography and Ecology of Past Human Populations. *Journal of Paleanthropology* 4:68-83.
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87. Invited paper - C.W. Marean and Z. Assefa (2005). The Middle and Upper Pleistocene African Record for the Biological and Behavioral Origins of Modern Humans. In *African Archaeology. A Critical Introduction*, edited by Ann Stahl. Blackwell Press: New York, pp 93-129.
88. Invited paper - C. W. Marean, M. Domínguez-Rodrigo, and T. R. Pickering (2004). Skeletal element equifinality in zooarchaeology begins with method: The evolution and status of the shaft critique. *Journal of Taphonomy* 3: 69-98.
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91. C. Henshilwood and C.W. Marean (2003). The origin of modern human behavior: A review and critique of the models and their test implications. *Current Anthropology* 44:627-651.
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93. T.R. Pickering, C.W. Marean, and M. Domínguez-Rodrigo (2003). Importance of limb bone shaft fragments in zooarchaeology: a response to On in situ attrition and vertebrate body part profiles (2002), by M.C. Stiner. *Journal of Archaeological Science* 30: 1469-1482.
94. Invited paper - C.W. Marean and N.E. Cleghorn (2003). Large mammal skeletal element transport: Applying foraging theory in a complex taphonomic system. *Journal of Taphonomy* 1: 15-42.
95. P. Munson and C.W. Marean (2003). Adults Only? A Re-consideration of Middle Paleolithic Prime-dominated Reindeer Hunting at Salzgitter Lebenstedt. *Journal of Human Evolution* 44: 263-273.
96. Y. Abe, C.W. Marean, P. Nilssen, E. Stone, and Z. Assefa (2002). The analysis of cutmarks on archaeofauna: A review and critique of quantification procedures, and a new image-analysis GIS approach. *American Antiquity* 67: 643-663.
97. C. Henshilwood, F. D'Errico, C.W. Marean, R. Milo, and R. Yates (2001). An early bone tool industry from the Middle Stone Age, Blombos Cave, South Africa: implications for the origins of modern human behaviour, symbolism and language. *Journal of Human Evolution* 41: 631-678.
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99. Guest Editor of Special Issue: C.W. Marean. (2000).The Middle Stone Age at Die Kelders Cave 1, South Africa. Published as a special issue of the *Journal of Human Evolution* 38, 233 pages.
100. C.W. Marean (2000). Preface: The Middle Stone Age at Die Kelders Cave 1, South Africa. *Journal of Human Evolution* 38: 3-5.
101. C.W. Marean, P. Goldberg, G. Avery, F. E. Grine, and R. G. Klein. (2000). Middle Stone Age stratigraphy and excavations at Die Kelders Cave 1 (South Africa): the 1992, 1993, and 1995 Field Seasons. *Journal of Human Evolution* 38: 7-42.
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- Kelders Middle Stone Age archaeofauna, long bone fragmentation, and carnivore ravaging. *Journal of Archaeological Science* 26: 9-29.
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109. C.W. Marean. (1997). Hunter-gatherer foraging strategies in tropical grasslands: Evidence from the East African Middle and Later Stone Age. *Journal of Anthropological Archaeology* 16: 189-225.
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111. Kimbel, W.H., R.C. Walter, D.C. Johanson, J.L. Aronson, Z. Assefa, G.C. Eck, E. Hovers, C.W. Marean, Y. Rak, K.E. Reed, C. Vondra, T. Yemane, R. Bobe-Quinteros. (1996). Late Pliocene Homo and Oldowan Tools from the Hadar Formation (Kada Hadar Member).Ethiopia. *Journal of Human Evolution* 31: 549-561.
112. R. Blumenschine, C.W. Marean, and S. Capaldo. (1996). Blind Tests of Interanalyst Correspondence and Accuracy in the Identification of Cutmarks, Percussion Marks, and Carnivore Tooth Marks on Bone Surfaces. *Journal of Archaeological Science* 23: 493-507.
113. C.W. Marean and C.E. Ehrhardt. (1995). Paleoanthropological and Paleoecological Implications of the Taphonomy of a Sabertooth's Lair. *Journal of Human Evolution* 28: 515-547.
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115. C.W. Marean, Nina Mudida, and Kaye E. Reed. (1994). Paleoenvironmental Implications of Holocene Micromammalian Remains from Enkapune Ya Muto rockshelter (Central Rift, Kenya). *Quaternary Research* 41: 376-389.
116. Invited paper - R.J. Blumenschine and C.W. Marean. (1993). A Carnivore's View of Archaeological Bone Assemblages. In *From Bones to Behavior*, edited by Jean Hudson, pp. 273-300. Southern Illinois Press, Carbondale.
117. C.W. Marean. (1992). Hunter to herder: Large mammal remains from the hunter-gatherer occupation at Enkapune Ya Muto rockshelter (Central Rift, Kenya). *The African Archaeological Review* 10: 65-127.
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- Kenya) for Paleoenvironmental Change and Faunal Extinctions. *Quaternary Research* 37: 239-255.
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124. C.W. Marean. (1986). On the Seal Remains from Klasies River Mouth: An Evaluation of Binford's Interpretations. *Current Anthropology* 27: 365-367.
125. C.W. Marean. (1986). Seasonality and Seal Exploitation in the South-western Cape, South Africa. *The African Archaeological Review* 4 (1986): 135-149.
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#### **PEER REVIEW PUBLICATIONS ACCEPTED OR SUBMITTED**

Colin D. Wren, Marco A. Janssen, Kim Hill, & and Curtis W. Marean. What makes a forager turn coastal? An agent-based approach to coastal foraging on the dynamic South African Paleoscape. Submitted to "Human Behavioral Ecology at the Coastal Margins: Global Perspectives on Coastal & Maritime Adaptations", edited by Heather B. Thakar and Carola Flores Fernandez. University of Florida Press. Accepted.

Emily Y. Hallett, Curtis W. Marean, Teresa E. Steele, Esteban Álvarez Fernández, Zenobia Jacobs, Jacopo Niccolò Cerasoni, Vera Aldeias, Eleanor M.L. Scerri, Mohamed Abdeljalil El Hajraoui, Harold L. Dibble. 120 thousand year old sophisticated bone tools from North Africa. *Nature Communications*, submitted.

Ada Dinckal, Fisher, Erich E.C., Herries, Andy I.R., Marean, Curtis W. Mapping Magnetism: Geophysical Modelling of Stratigraphic Features by using in situ Magnetic Susceptibility Measurements at Pinnacle Point 5-6 North, South Africa. *International Journal of Geoarchaeology*, submitted.

Kerstin Braun, Miryam Bar-Matthews, Avner Ayalon, Alan Matthews, Tami Zilberman, Natalya Zolotova, Richard M. Cowling, Panagiotis Karkanas, Hayley Cawthra, Erich C. Fisher, Curtis W. Marean. Rainfall seasonality and vegetation changes from 1 MIS 5 to the Last Glacial Maximum as recorded by Sandkraal Cave speleothem stable isotopes, South African south coast. *Quaternary Science Reviews*, submitted.

Christopher F. Brooke; Curtis W. Marean; Colin D. Wren; Hervé Fritz. Functional groups predict the spatial distribution of large herbivores on the Paleo-Agulhas Plain, South Africa during the last glacial maximum. *Quaternary Science Reviews*, submitted.

### **PUBLICATIONS THAT ARE NOT PEER REVIEW**

1. Esteban, I., Albert, R.M., Cabanes, D., Marean, C.W., 2020. Estratègies de recol·lecció de plantes i paleoambients durant la Middle Stone Age a Pinnacle Point (costa sud de Sud-àfrica): les anàlisis de fitòlits. *Tribuna d'Arqueologia 2016-2017*, pp 29-51.
2. Hodgkins, J., le Roux, P., Marean, C.W., Penkman, K., Crisp, M., Fisher, E., Lee-Thorp, J., 2018. The role of ostrich in shaping the landscape use patterns of humans and hyenas on the southern coast of South Africa during the late Pleistocene, *Multispecies Archaeology*. Taylor and Francis, pp. 333-346.
3. Marean, C., 2018. People on the Palaeo-Agulhas Plain. *Quest* 14, 14-17.
4. Marean, C.W., 2017. Early signs of human presence in Australia. *Nature* 547, 285.
5. Oestmo, S., Janssen, M.A., Marean, C.W. (2016). Testing Brantingham's Neutral Model: The Effect of Spatial Clustering on Stone Raw Material Procurement. In: Barceló, J.A., Del Castillo, F. (eds.), *Simulating Prehistoric and Ancient Worlds*. Springer, Cham, Switzerland, pages 175-188.
6. Fisher, Erich C. and Marean, Curtis W., (2016) Data Visualization. in: Gilbert, A.S. (Ed.), *Encyclopedia of Geoarchaeology*: 173-179.
7. Curtis W. Marean (2016). Pinnacle Point. in: Gilbert, A.S. (Ed.), *Encyclopedia of Geoarchaeology*: 272-675.
8. C.W. Marean (2015). The most invasive species of all. *Scientific American*. August Issue: 32-39.
9. Eric Shook, Colin D. Wren, Curtis W. Marean, Alastair J. Potts, Janet Franklin, Francois Engelbrecht, David O'Neal, et al. (2015). Paleoscape Model of Coastal South Africa During Modern Human Origins: Progress in Scaling and Coupling Climate, Vegetation, and Agent-Based Models on XSEDE. In *Proceedings of the 2015 Annual Conference on Extreme Science and Engineering Discovery Environment*. New York, NY: ACM International Conference Proceeding Series, 2015. ISBN:978-1-4503-3720-5; doi>10.1145/2792745.2792747
10. Simen Oestmo, and Curtis W. Marean, (2015). Excavation and Survey at Pinnacle Point. In Carver, M., B. Gaydarska, and S. Monton-Subias (ed.) *Field Archaeology from Around the World*, New York: Springer: pp. 123-126.
11. Simen Oestmo and Curtis W. Marean. (2014). Pinnacle Point: Excavation and Survey Methods. In Smith C. (ed.) *Encyclopedia of Global Archaeology*, New York: Springer: 5955-5959.
12. **Invited paper** – C.W. Marean (2013). When the sea saved humanity. *Scientific American*. Reprinted in a special Human Origins issue.
13. J. A. Bernatchez and Curtis W. Marean (2011). Total Station Archaeology and the Use of Digital Photography. *SAA Archaeological Record* 11 (3): 16-21.

14. **Invited paper** – C.W. Marean (2010). When the sea saved humanity. *Scientific American*. August issue: 54-61.
15. J.C. Thompson and C.W. Marean (2009). Using image analysis to quantify relative degrees of density-mediated attrition in Middle Stone Age archaeofaunas. *Society of Archaeological Science Bulletin* 32: 18-23.
16. **Invited paper** - C.W. Marean. (2007). Heading North: An Africanist Perspective on the Replacement of Neanderthals by Modern Humans. In *Rethinking the Human Revolution*, edited by Paul Mellars, Katie Boyle, Ofer Bar-Yosef & Chris Stringer. McDonald Institute for Archaeological Research, Cambridge, pp 367-379.
17. H. Dibble, C.W. Marean and S. P. McPherron (2007). The use of barcodes in excavation projects. *SAA Archaeological Record* 7: 33-38.
18. **Invited Comment** – C.W. Marean (2006). comment on Diet, mobility and settlement pattern among Holocene hunter-gatherers in southernmost Africa by Judith Sealy. *Current Anthropology* 47: 587-588.
19. **Abstract** - C.W. Marean, M. Bar-Matthews, P.J. Nilssen, E.C. Fisher, A. Herries, P. Karkanas (2006). Paleoclimatic context of the origins of modern humans in South Africa: Based on speleothem isotopic records. *Geochimica et Cosmochimica Acta*, 70, A391.
20. **Invited Paper** - C.S. Henshilwood & C.W. Marean, (2006). Remodeling the origins of modern human behaviour. In : *The Prehistory of Africa* (ed. H. Soodyall). Jonathan Ball Publishers: Johannesburg: 31-48.
21. **Book Review** - *Man the Hunted: Primates, Predators, and Human Evolution* by Donna Hart and Robert W Sussman. *Journal of Human Evolution* 49 (2005): 779-780.
22. Fisher, E., Pyne, L., & Marean, C. W. (2005). 3D GIS Archaeology in South Africa. **GEO:Connexion**, 1-4.
23. **Book Review** - *Hunter and Hunted: Relationships between Carnivores and People*, by Hans Kruuk. *American Journal of Physical Anthropology* 124: 2004: 94-95.
24. C.W. Marean and J. C. Thompson (2003). Research on the origins of modern humans continues to dominate paleoanthropology. *Evolutionary Anthropology* 12: 165-167.
25. Y. Abe and C.W. Marean. (2003). Image-analysis software is the future of zooarchaeological methodology. *ICAZ Newsletter* 4: 3.
26. P.J. Nilssen and C.W. Marean (2002). Background and results from test excavations of Middle Stone Age sites at Pinnacle Point, Mossel Bay. *Quaternary Research Centre Newsletter* 10: 1-2.
27. **Book Review** - *Meat Eating and Human Evolution*, by Craig Stanford and Henry Bunn. *American Journal of Human Biology* 14 (2002): 411-412
28. **Book Review** - *The Archaeology of Animal Bones*, by Terry O'Connor, *Quarterly Review of Biology* 76 (2001): 482-483.
29. **Book Review** - *Taphonomy: A Process Approach* by Ronald E. Martin, *American Antiquity* 66 (2001): 177-178.
30. **Abstract** - T. Minichillo and C. W. Marean (2000). Behavioral ecological modeling and faunal resource use in

the Middle and Later Stone Ages of southern Africa. *Journal of Human Evolution* 38: A22.

31. **Invited Perspective** - C.W. Marean (2000). Age, sex, and old goats. *Science* 287: 2174-2175.
32. C.J. Frey and C.W. Marean (1999). Mammal Remains. In *The Iron Age Settlement at `Ain Dara, Syria*, edited by E.C. Stone and P.E. Zimansky, pp. 123-137. Oxford: BAR International Series 786.
33. C.W. Marean and J.J. Shea. (1996). Archaeological reconnaissance of the Mkulumuzi and Sigi River Valleys, Tanga District, Tanzania *Nyame Akuma* 45: 72-81.
34. C.W. Marean (1995). On taphonomy and zooarchaeology. *Evolutionary Anthropology* 4: 64-72.
35. C.W. Marean. (1995). African Archaeology: Past, present and future. *Evolutionary Anthropology* 3: 155-158.
36. **Invited Comment** - C.W. Marean. (1995). Comment on Tappen. *Current Anthropology* 36: 251-252.
37. **Abstract of article** - C.W. Marean and C.E. Ehrhardt. (1995). Paleoanthropological and Paleoecological Implications of the Taphonomy of a Sabertooth's Lair. *Zooarchaeological Research News* 15: 10.
38. **Abstract of article** - C.W. Marean and Leanne Bertino. (1995). Intrasite Spatial Analysis of Bone: Subtracting the Effect of Secondary Carnivore Consumers. *Zooarchaeological Research News* 15:10.
39. **Abstract of article** - C.W. Marean, Nina Mudida, and Kaye E. Reed. (1995). Paleoenvironmental Implications of Holocene Micromammalian Remains from Enkapune Ya Muto rockshelter (Central Rift, Kenya). *Zooarchaeological Research News* 15:5.
40. **Abstract of article** - C.W. Marean. (1993). Hunter to herder: Large mammal remains from the hunter-gatherer occupation at Enkapune Ya Muto rockshelter (Central Rift, Kenya). *Zooarchaeological Research News* 12: 11.
41. **Book review** - *Human Predators and Prey Mortality* edited by Mary Stiner, *Journal of Human Evolution* 22 (1993): 253-256.
42. **Book review** - *The Mammals of the Southern African Subregion* by J.D. Skinner and R.H.N. Smithers, *Quarterly Review of Biology* 67 (1992): 540.
43. **Abstract of article** - C.W. Marean, L.M. Spencer, R.J. Blumenschine, and S.D. Capaldo. (1992). Captive hyaena bone choice and destruction, the schlepp effect and Olduvai archaeofaunas. *Zooarchaeological Research News* 11: 7-8.
44. **Abstract of article** - C.W. Marean and L.M. Spencer. (1992). Impact of Carnivore Ravaging on Zooarchaeological Measures of Element Abundance. *Zooarchaeological Research News* 11: 10.
45. **Abstract of article**- C.W. Marean. (1992). Measuring the post-depositional destruction of bone in Archaeological Assemblages. *Zooarchaeological Research News* 11: 9-10.
46. **Book review** - *Frozen Fauna of the Mammoth Steppe* by R. Dale Guthrie, *Journal of Vertebrate Paleontology* 10 (1990): 400-401.
47. **Abstract** - L.M. Orloff and C.W. Marean. (1990). Taphonomic Implications of Bone Choice and Destruction by Captive Spotted Hyenas. *Journal of Vertebrate Paleontology* 9: 37A.

48. G. Webster; J.W. Michels; and C.W. Marean. (1987). A Detailed Description of the Excavations. In *Studies in Nuragic Archaeology: Village Excavations at Nuraghe Urpes and Nuraghe Toscono in West-Central Sardinia*, edited by J.W. Michels and G.S. Webster, pp. 11-38. BAR International Series 373, Oxford.
49. **Invited Comment** - C.W. Marean. (1987). Comment on Blumenschine. *Current Anthropology* 28: 397-398.
50. J.W. Michels; C.W. Marean; I.S.T. Tsong; and G.A. Smith.(1982). Invisible Hydration Rims: A Test Case. *SAS Research Reports* 6: 1-4.

### **PUBLICATIONS THAT ARE NOT PEER REVIEW IN PRESS**

Hodgkins, Jamie and C.W. Marean. “New information from old excavations: a comparative analysis of faunal assemblages of paleolithic hunter-gatherers from the Zagros Mountains of Iran. In “The Paleolithic Settlement of Zagros and the Iranian Plateau”, edited by Fereidoun Biglari, Marjan Mashkour, Sonia Shidrang, and Kamyar Abdi. Accepted.

Colin D. Wren, Marco A. Janssen, Kim Hill, & Curtis W. Marean. What makes a forager turn coastal? An agent-based approach to coastal foraging on the dynamic South African Paleoscape. *Evolutionary Ecology at the Coastal Margins: Theoretical Approaches to Prehistoric Coastal Adaptations*, eds. Heather B. Thakar and Carola Flores Fernandez. University Press of Florida: Society and Ecology in Island and Coastal Archaeology Series. Expected publication date 2021.

### **PROFESSIONAL PAPERS PRESENTED AND CONFERENCE PARTICIPATION**

1. Eugene Smith, Racheal Johnsen, Minghua Ren, Jayde Hirniak, Erich Fisher, Christopher Campisano and Curtis Maren. (2021). Tephrochronology: applications, advancements, and future challenges: Goldschmidt202. Lyon, France, 4 - 9 July 2021.
2. **Invited Speaker** – Curtis W. Marean (2021) A General Model for the Paleoecology of the Now Submerged Palaeo-Agulhas Plain, an Extinct Ecosystem Crucial to Modern Human Origins. American Museum of Natural History. 3 March 2021.
3. Curtis W. Marean (2021) Extreme spatiotemporal variation in the Pleistocene of the Cape Floristic Region (South Africa) shaped this mega-biodiversity hotspot as a center of modern-human origins. AAAS: Dynamic Ecosystems and Human Evolution in Africa. 11 February 2021.
4. **Invited Speaker** – Curtis W. Marean (2021) Searching for the Origins of Modern Human Behavior. Appalachian Science Communicators. 7 April 2021.
5. **Invited Speaker** – Curtis W. Marean (2021) A General Model for the Paleoecology of the Now Submerged Palaeo-Agulhas Plain, an Extinct Ecosystem Crucial to Modern Human Origins. Rutgers University, Center for Human Evolutionary Studies, 12 March 2021.
6. **Invited Speaker** – Curtis W. Marean (2020) A general model for the palaeo-ecology of the Palaeo-Agulhas Plain, a now submerged ecosystem off the south coast of South Africa. University of Minnesota, Department of Anthropology, 29 October 2020.
7. **Invited Speaker** – Curtis W. Marean (2019) A general model for the palaeo-ecology of the Palaeo-Agulhas Plain, a now submerged ecosystem off the south coast of South Africa. University of Wollongong, Australia, 29



March 2019.

8. **Invited Keynote Speaker** – Curtis W. Marean (2019) A General Model for the Ecology of the Palaeo-Agulhas Plain: Constructing this Model Teaches us how to do Big Palaeoscience. SASQUA Bi-Annual Conference, South Africa, 7 March 2019.

9. **Invited Speaker** – Curtis W. Marean (2019) Survivors On the Edge of Land and Sea: How Coastal Life Shaped the Evolution of Our Species. Two Oceans Aquarium, 16 January.

10. **Invited Symposium Participant** – (2019) The Origins and Evolution of Coastal Foraging in Southern Africa. Human Adaptations to Mediterranean Environments, Annual Meeting of the Archaeological Institute of America, 3-6 January, San Diego.

11. Eugene Smith, Racheal Johnsen, Jayde Hirniak, Minghua Ren and Curtis W. Marean (2019). Cryptotephra Studies in Africa: A Tool for Precise Dating and Continental Correlation of Archaeological Sites. Annual Meeting of the Society for American Archaeology, Albuquerque, NM, April 2019.

12. Colin Wren, Curtis Marean, Eric Shook, Kim Hill and Marco Janssen (2019) What Makes a Forager Turn Coastal? An Agent-Based Approach to Coastal Foraging on the Dynamic South African Paleoscape. Annual Meeting of the Society for American Archaeology, Albuquerque, NM, April 2019.

13. Poster - Carolina Gonzalez, Jake Harris, Curtis Marean, Daniel Joyce and Erik Otarola-Castillo (2019) A 3D Geometric Morphometric Comparison of Bone Surface Modifications on Proboscidean Assemblages from the Western Great Lakes. Annual Meeting of the Society for American Archaeology, Albuquerque, NM, April 2019.

14. Poster - Evalyn Stow, Desiree Clark, Jacob Harris, Curtis Marean and Erik Otarola-Castillo (2019) Quantitative Analysis of Bone Surface Modifications on the Bowser Road Mastodon and Its Implications for the Human Predation of North American Megafauna. Annual Meeting of the Society for American Archaeology, Albuquerque, NM, April 2019.

15. Curtis Marean, Richard Cowling and Janet Franklin (2019) A Model of the Extinct Palaeo-Agulhas Plain Ecosystem in Southernmost Africa. Annual Meeting of the Society for American Archaeology, Albuquerque, NM, April 2019.

16. Christopher Brooke, Curtis Marean, Jacob Harris and Jan A. Venter (2019) Using the Present to Uncover the Past: Reconstructing the Ecology and Behaviour of Extinct Large Mammals on the Palaeo-Agulhas Plain (South Coast, South Africa). Annual Meeting of the Society for American Archaeology, Albuquerque, NM, April 2019.

17. **Poster** - Murray, J., C. Gravel-Miguel, B. Schoville, E. Otarola-Castillo, J. Harris, C. Wren, B. Wood, C. Marean

18. An agent-based modeling approach to explain the rarity of projectile points in archaeological sites. Annual Meeting of the Paleoanthropology Society, Albuquerque, NM, April 2019.

19. Harris, J., C. Marean, J. Thompson, M. Torquato, Z. Alemseged, S. McPherron, Erik Otarola-Castillo

20. An updated Bayesian model of bone surface modification and application to the “Dikika Marks”

21. (Ethiopia, 3.4 Ma). Annual Meeting of the Paleoanthropology Society, Albuquerque, NM, April 2019.

22. Hirniak, Jayde, Smith, Eugene, Johnsen, Racheal, Ren, Minghua, Fitch, Shelby, Marean, Curtis W: Discovery of cryptotephra at Middle-Upper Paleolithic sites Arma Veirana and Riparo Bombrini, Italy: A new link for broader geographic correlations, Developing International Geoarchaeology meeting, Burnaby, Canada, 2019.

23. Hirniak, Jayde, Smith, Eugene, Johnsen, Racheal, Ren, Minghua, Fitch, Shelby, Marean, Curtis W: Using cryptotephra in archaeology: precise correlations and improved age estimates, Society for American Archaeology meeting, Albuquerque, New Mexico, 2019.
24. **Invited Speaker** – Curtis W. Marean (2018) How humans conquered the planet. Coffee @ Beyond, Arizona State University, 30th April.
25. **Invited Speaker** – Curtis W. Marean and Naomi Cleghorn (2018) From Pinnacle Point to Knysna: Building a High Resolution Sequence of Modern Human Origins. Stillbay Archaeological Society, Still Bay, South Africa
26. Emily Hallett and Curtis W. Marean (2018) Comparing MSA subsistence strategies and technologies: Pinnacle Point, South Africa and Contrebandiers Cave, Morocco. Panafrican Congress, Rabat, Morocco 10-14 September.
27. Kerstin Braun, Miryam Bar-Matthews, Alan Matthews, Avner Ayalon, Richard M. Cowling, Andy I. R. Herries, Curtis W. Marean. (2018) Paleoclimate on the South African south coast during major steps of modern human evolution reconstructed using speleothem stable isotope records. Annual Meeting of the American Geophysical Union, 10-14 December, Washington D.C.
28. Jessica C. Thompson, Susana Carvalho, Curtis W. Marean, and Zeresenay Alemseged (2018). Origins of the human predatory pattern: The transition to large animal exploitation by early hominins. Paleoanthropology Society Annual Meeting. 10 – 11 April, Austin Texas.
29. Erik R Otarola-Castillo, Melissa G. Torquato, Hannah C. Hawkins, Emma James, Jacob A. Harris, Curtis W. Marean, Shannon P. McPherron, Jessica C. Thompson. (2018) Differentiating between cutting actions on bone using geometric morphometric and Bayesian analysis of complete 3D cut mark surfaces. Paleoanthropology Society Annual Meeting. 10 – 11 April, Austin Texas.
30. **Poster** - Eugene Smith, Racheal Johnsen, Jayde Hirniak, Shelby Fitch, Caley Orr, David Strait, Minghua Ren, Christopher E. Miller, Fabio Negrino, Julien Riel-Salvatore, Marco Peresani, Stefano Benazzi, Claudine Gravel-Miguel, Curtis W. Marean, Jamie Hodgkins. Rhyolite Cryptotephra Identified in Mousterian Deposits at Arma Veirana, Italy. (2018). Paleoanthropology Society Annual Meeting. 10 – 11 April, Austin Texas.
31. **Invited Speaker** – Curtis W. Marean (2017) The transition to foraging for dense and predictable resources and its impact on the evolution of modern humans. New York University, 2 November.
32. **Invited Speaker** – Curtis W. Marean (2017) The transition to foraging for dense and predictable resources and its impact on the evolution of modern humans. University of Barcelona, Spain, 27 October.
33. **Invited symposium participant** - Jacob A. Harris, Curtis W. Marean, Kiona Ogle, Jessica Thompson (2017) A Bayesian solution to the controversy over the identification of bone surface modification in paleoanthropology. Symposium Rethinking Methods of Faunal Analysis, Society for American Archaeology, Vancouver, March 29-April 2.
34. **Invited symposium participant** - Erich C. Fisher, Jamie Hodgkins, and Curtis W. Marean (2017) An Updated GIS-Based System for Calculating MNE and Quantifying Bone Surface Modification Frequencies and Spatial Location on Skeletal Elements in Faunal Assemblages. Symposium Rethinking Methods of Faunal Analysis, Society for American Archaeology, Vancouver, March 29-April 2.

35. Simen Oestmo, Jayne Wilkins, Josh Giesken, Jamie Hodgkins, Zenobia Jacobs, Panagiotis Karkanas, Curtis W. Marean. (2017) Open-air in situ 72-thousand-year old stone tool knapping events at Vleesbaai, Pinnacle Point, South Africa. Annual Meeting of the Paleoanthropology Society, Vancouver, 28-29 March.
36. Eugene Smith, Simen Oestmo, Jayne Wilkins, Racheal Johnsen, Minghua Ren, Amber Ciravolo, Shelby Fitch, Zenobia Jacobs, Panagiotis Karkanas, Erich Fisher, and Curtis W. Marean. (2017) Temporal link established between two Middle Stone Age sites (south coast, South Africa) using the Toba Isochron. Annual Meeting of the Paleoanthropology Society, Vancouver, 28-29 March.
37. **Invited Speaker** – Curtis W. Marean (2016). How we conquered the planet. Inconvenient truths: Origins Project. Arizona State University. October 19, 2016.
38. **Invited Speaker** – Curtis W. Marean (2016). Evolution and spread of the most cooperative and invasive species: us. L.S.B. Leakey Foundation Annual Lecture, San Francisco Academy of Sciences, 10 October.
39. **Invited Speaker** – Curtis W. Marean (2016). The evolution of the most invasive species of all – *Homo sapiens*. Symposium on “Our African Origins”, University of Missouri-Columbia, March 21-22, 2016.
40. Jessica Thompson, William Kimbel, Erella Hovers, and Curtis Marean (2016) New approaches to taphonomy and field survey of fossils across the Hadar paleo-landscape at 3.3 Ma. Annual Meeting of the Paleoanthropology Society, Atlanta 12-13 April.
41. Jacob A. Harris, Curtis W. Marean, Kiona Ogle, Jessica Thompson, Kaye Reed (2016) A Bayesian model for identifying bone surface modification and application to the ~2.82 ma Ledi-Geraru assemblage. Annual Meeting of the Paleoanthropology Society, Atlanta 12-13 April.
42. **Invited Speaker** – Curtis W. Marean (2015). Surround, defend, and advance: How the transition to foraging for dense and predictable resources changed the course of human evolution. Major transitions in human evolution – The Royal Society and Royal Academy, London, UK, 22-23rd October.
43. **Invited Symposium Participant** – Curtis W. Marean and Panagiotis Karkanas. (2015). Cave Life Histories of non-anthropogenic sediments helps us “raise the bar” in our understandings of anthropogenic sediments. Archaeology in Context: The Influence of the Geoarchaeological Career of Paul Goldberg, Society for American Archaeology San Francisco, April 17.
44. **Co-Organizer** – Curtis W. Marean, Erich Fisher, and Naomi Cleghorn. (2015). 2 linked symposia - Early Modern Humans and their Paleoscape on the South Coast of South Africa. Society for American Archaeology San Francisco, April 15-19, 2015.
45. **Discussant** – Curtis W. Marean. (2015). Building the Hunter-gatherer’s Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.
46. Braun, K, M Bar-Matthews, CW Marean, A Matthews, R Zahn. (2015) Long and Continuous Record of Climate and Environmental Change from Speleothems of the Cape Floral Region of Southern South Africa. Building the Hunter-gatherer’s Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.
47. Cawthra, HC, JS Compton, EC Fisher, Z Jacobs, CW Marean (2015) Marine geophysics reveals the character of the now submerged Paleo-Agulhas Plain. Building the Hunter-gatherer’s Paleoscape on the South African

Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

48. Albert, RM, I Esteban, CW Marean (2015). Paleoenvironmental Reconstruction using Fossil Phytolith Assemblages at Pinnacle Point caves 13B and 5-6 during Middle Stone Age, Mossel Bay, South Africa. Building the Hunter-gatherer's Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

49. Lee-Thorp, J, K Penkman, CW Marean. (2015). A Late Pleistocene aridity and vegetation record from stable light isotope ratios of ostrich eggshell in Pinnacle Point. Building the Hunter-gatherer's Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

50. Williams, HM, CW Marean, T Mathews, AIR Herries. (2015). Paleoenvironmental implications of Stable Isotope analyses of Micromammal teeth from Pinnacle Point (Mossel Bay, South Africa) Building the Hunter-gatherer's Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

51. Copeland, S, H Cawthra, RM Cowling, EC Fisher, J Lee-Thorp, P le Roux, CW Marean (2015). Testing the Paleo-Agulhas Plain Migration Ecosystem hypothesis with serial isotope analysis of fossil fauna. Building the Hunter-gatherer's Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

52. Sealy, J, N Naidoo, J Lee-Thorp, E Loftus, T Faith, CW Marean. (2015). Stable carbon and oxygen isotopes in faunal tooth enamel from Boomplaas and Nelson Bay Cave record Late Pleistocene/Holocene environments in the southern Cape, South Africa Building the Hunter-gatherer's Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

53. Smith, E, A Ciravolo, Ren, M, P Karkanis, CW Marean, EC Fisher, N Cleghorn, C Lane. (2015). Cryptotephra Discovered at Pinnacle Point Site 5-6 May Correlate with the 74 ka Eruption of Toba in Indonesia: Implications for Resolving the Dating Controversy for Middle Stone Age Sites in Southern Africa Building the Hunter-gatherer's Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

54. Hill, K, M Janssen, JC de Vynck, EC Fisher, CW Marean. (2015). Agent Based Models of Foraging Behavior: From the Neotropics to the Paleoscape. Building the Hunter-gatherer's Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

55. De Vynck, JC, K Hill, R Anderson, RM Cowling, CW Marean. (2015) Foraging for shellfish in a predictable and productive inter-tidal environment, the south coast of South Africa. Building the Hunter-gatherer's Paleoscape on the South African Coast: Environment, Landscape, and Foraging Resources. Society for American Archaeology San Francisco, April 15-19.

56. Co-Chair – Curtis W. Marean. (2015) Building the Hunter-gatherer's Paleoscape on the South African Coast: The Archaeological Record. Society for American Archaeology San Francisco, April 15-19.

57. Fisher, EC, RM Albert, G Botha, HC Cawthra, I Esteban, J Harris, Z Jacobs, A Jerardino, CW Marean, FH Neumann, J Pargeter, M Poupart, J Venter. (2015) The P5 Project Archaeological Reconnaissance along the

Pondoland Coast, South Africa Building the Hunter-gatherer's Paleoscape on the South African Coast: The Archaeological Record. Society for American Archaeology San Francisco, April 15-19.

58. Hallett-Desguez, E, CW Marean. (2015) A comparison of two African Mediterranean MSA adaptations: the Cape Floral Region and the Maghreb Building the Hunter-gatherer's Paleoscape on the South African Coast: The Archaeological Record. Society for American Archaeology San Francisco, April 15-19.

59. Oestmo, S, BJ Schoville, J Wilkins, CW Marean. (2015) A Middle Stone Age Paleoscape near the Pinnacle Point caves, Vleesbaai, South Africa Building the Hunter-gatherer's Paleoscape on the South African Coast: The Archaeological Record. Society for American Archaeology San Francisco, April 15-19.

60. Wilkins, J, KS Brown, S Oestmo, T Pereira, KL Ranhorn, BJ Schoville, CW Marean. (2015) A high-resolution ~110,000 year Middle Stone Age lithic technological sequence from Pinnacle Point, South Africa. Building the Hunter-gatherer's Paleoscape on the South African Coast: The Archaeological Record. Society for American Archaeology San Francisco, April 15-19.

61. Karkanas, P, KS Brown, EC Fisher, Z Jacobs, CW Marean. (2015). Micromorphology reveals changing levels of site occupation intensity at Pinnacle Point 5-6. Building the Hunter-gatherer's Paleoscape on the South African Coast: The Archaeological Record. Society for American Archaeology San Francisco, April 15-19.

62. McGrath, JR, N Cleghorn, B Gennari, S Henderson, K Kyriacou, C Nelson, P Nilssen, L Richardson, CM Shelton, J Wilkins, CW Marean. (2015). Late Holocene occupations at the Pinnacle Point Shell Midden Complex. Building the Hunter-gatherer's Paleoscape on the South African Coast: The Archaeological Record. Society for American Archaeology San Francisco, April 15-19.

63. Pereira, T., Wilkins, J., Brown, K. S., Oestmo, S., Ranhorn, K. L., Schoville, B. J., Marean, C. W., (2015). Pinnacle Point 5-6: Human ecodynamics in South Africa between 90 and 51ka, Africa: Archaeology and Landscape, International Seminar on African Archaeology, 3 to 5 June, Mação, Portugal.

64. **Invited Speaker** – Curtis W. Marean (2014). Survivors On the Edge of Land and Sea: Using a Trans-disciplinary Approach to Develop the Paleoscape of Early Modern Humans. Nelson Mandela Metropolitan University, Faculty of Science, 11<sup>th</sup> November.

65. **Invited Speaker** – Curtis W. Marean (2014). Coastal Foraging and its Relevance for the Great Human Diaspora. SYMPOSIUM ON HUMAN ORIGINS II: Santa Barbara Museum of Natural History, 11-13<sup>th</sup> September.

66. K. Braun, M. Bar-Matthews, A. Ayalon, C. W. Marean, A. Matthews and R. Zahn. (2014). The influence of southern hemisphere climate forcing on the terrestrial paleoclimate of Southern South Africa. Goldschmidt Conference in Geochemistry, Sacramento, CA, 8-13<sup>th</sup> June.

67. Pereira, T., Wilkins, J., Brown, K., Oestmo, S., Ranhorn, K., Schoville, B., Marean, C., 2014. PP5-6 um sítio chave para compreender em alta resolução a Middle Stone Age da África Austral. Seminário 8 da Secção de Arqueologia da Sociedade de Geografia de Lisboa "Colóquio Arqueologia em África conceitos, práticas e projectos", 26 Novembro 2014.

68. Smith, E. , A. Ciravolo, P. Karkanas, C. Marean, E. Fisher, N. Cleghorn, C. Lane and M. Ren. (2014). Cryptotephra possibly from the 74 ka eruption of Toba discovered at Pinnacle Point, South Africa: implications for resolving the dating controversy for Middle Stone Age sites in southern Africa. Annual Meeting of the Paleoanthropology Society, 8-9 April, Calgary, Canada.

69. Wilkins, J. K. Brown, S. Oestmo, T. Pereira, K. Ranhorn, B. Schoville and C. Marean. (2014). A high resolution Late Pleistocene (ca. 90 – 50 ka) Middle Stone Age lithic technological sequence at Pinnacle Point Site 5-6, South Africa. Annual Meeting of the Paleoanthropology Society, 8-9 April, Calgary, Canada.
70. de Vynck, J., K. Hill, R. Anderson, R. Cowling and C. Marean. (2014). Return rate estimates for inter-tidal foraging from experiments on the south coast of South Africa: implications for debates over the significance of early marine resource use. Annual Meeting of the Paleoanthropology Society, 8-9 April, Calgary, Canada.
71. Hallett-Desguez, E., H. Dibble, C. Marean and T. Steele. (2014). A large and varied bone tool assemblage from Contrebandiers Cave (Atlantic coast of Morocco) dated between ca. 122 ka – 96 ka. Annual Meeting of the Paleoanthropology Society, 8-9 April, Calgary, Canada.
72. **Invited Speaker** – Curtis W. Marean (2014). Coastal foragers and the origins of modern human behavior. Sante Fe Institute, 14<sup>th</sup> January.
73. **Invited Plenary Speaker** – Curtis W. Marean (2012). Survivors On the Edge of Land and Sea: Using a Trans-disciplinary Approach to Develop the Paleoscape of Early Modern Humans. Annual Meeting of the Australian Archaeology Association, Wollongong, New South Wales, Australia, 13<sup>th</sup> December.
74. **Invited speaker** - Curtis W. Marean (2012). Early Modern Humans on the Edge of Land and Sea: Pinnacle Point's Contribution to Our Understanding of How Humans Became Unique. George Washington University, 14<sup>th</sup> November.
75. **Invited speaker** - Curtis W. Marean (2012). Survivors on the Edge of Land and Sea: Modern Human Origins and How Coastal Life Helped Make Us Unique. Annual Frison Institute Lecture, University of Wyoming, 26<sup>th</sup> September.
76. H. C. Cawthra, C. W. Marean, E. C. Fisher and J. S. Compton (2012). Marine geophysics and geological modelling of offshore Late Quaternary palaeoshorelines in the southern Cape, South Africa. Meetings of the South African Society for Quaternary Research, Gobabeb, Namibia, 13 to 16 September.
77. Cawthra, H. C., Marean, C. W., Fisher, E. C., Compton, J. S. (2012). The application of marine geophysics to understanding late Quaternary palaeoenvironments and early modern human dispersal in the southern Cape, South Africa. 34th International Geological Congress (IGC), Brisbane Convention and Exhibition Centre, 5-10 August.
78. **Invited Speaker** - Curtis W. Marean (2012). Survivors on the Edge of Land and Sea: Modern Human Origins and How Coastal Life Helped Make Us Unique. STIAS Lecture Series, University of Stellenbosch, South Africa. 13 June.
79. Herries, A.I.R., Pickering, R., Karkanas, P., Kappan, P., Jacobs, Z., Bar Matthews, M., Fisher, E., Marean, C.W. (2012). The direct U-Pb dating of geomagnetic reversals and excursions in speleothem from Pinnacle Point, South Africa. Magnetic Relaxations Conference, University of Liverpool, UK. 4-5 January.
80. K. Braun, M. Bar-Matthews, A. Ayalon, Curtis W. Marean, G. Avery, A. I. R. Herries, R. Zahn, and A. Matthews. (2011) Comparison of different South African precipitation regimes using speleothem stable isotopes compositions. Climate Change – The Karst Record 6, Conference, University of Birmingham, 26 – 29 June.

81. **Invited Keynote Speaker** – Curtis W. Marean (2011). The significance of the Cape’s coastal and terrestrial ecosystem diversity for the origins, and cultivation of the human lineage. Fynbos Forum, Stillbaai, South Africa, 31 May - 3 June.
82. **Invited Distinguished Speaker** – Curtis W. Marean (2011). Co-evolution of early modern humans and the coastal adaptation in South Africa. National Science Foundation Distinguished Lecture Series, 4 May.
83. Jessica C. Thompson, Sarah W. Lansing, Curtis W. Marean, Shannon P. McPherron, Zeresenay Alemseged (2011). Experimental definition of bone surface signatures from natural unmodified stones and implications for early hominin subsistence. Annual Meeting of the Paleoanthropology Society, Minneapolis, Minnesota, April 10-11.
84. Amy Rector and Curtis W. Marean (2011). Community paleoecology and habitat variability during Middle Stone Age occupation of the Cape Floral Region, South Africa. Annual Meeting of the Paleoanthropology Society, Minneapolis, Minnesota, April 10-11.
85. Kyle S. Brown, Curtis W. Marean, Zenobia Jacobs, Jocelyn Bernatchez, Panagiotis Karkanis, Simen Oestmo, Benjamin Schoville (2011). A Pre-Howiesons Poort small backed blade MSA occurrence at Pinnacle Point. Annual Meeting of the Paleoanthropology Society, Minneapolis, Minnesota, April 10-11.
86. **Invited Symposium Participant** – Curtis W. Marean (2011). Coastal South Africa and the co-evolution of the modern human lineage and the coastal adaptation. 2011 Annual Meeting of the American Association of Physical Anthropology, symposium titled “Evolution of the hominin brain, diet and behavior: the contribution of freshwater and marine resources”, Minneapolis, Minnesota, April 12-16.
87. **Invited Distinguished Speaker** – Curtis W. Marean (2011). Co-evolution of Early Modern Humans and the Coastal Adaptation in South Africa. Ben and Trudy Termini Distinguished Anthropologist Lecture, University of Texas at Arlington, 2 March.
88. **Invited Speaker** – C.W. Marean (2010). Pinnacle Point in Context: The Cape Floral Kingdom, Shellfish, And Modern Human Origins. Langebaanweg 2010, Cape Town, South Africa, 15-17 November.
89. C. Fisher, M. Bar-Mathews, A. Jerardino, and C. W. Marean (2010). Middle and Late Pleistocene Paleoscape Modeling along the Southern Coast of South Africa. The Annual Meeting of the Paleoanthropology Society. Chicago, April 13-14.
90. K.S. Brown and C. W. Marean (2010). Wood fuel availability for heat treatment drives the rise and fall of silcrete as a raw material in the Middle Stone Age of South Africa. The Annual Meeting of the Paleoanthropology Society. Chicago, April 13-14.
91. **Invited Distinguished Speaker** - C.W. Marean (2010). The Cape Floral Kingdom, Shellfish, and Modern Human Origins. Annual Distinguished Lecture in African Archaeology and Paleoanthropology, African Studies Program and Department of Anthropology, University of Florida at Gainesville, 2 April.
92. **Invited Speaker** - C.W. Marean (2009). The African Evidence for the Origins of Modern Humans: A Research Problem in Need of a Trans-disciplinary Approach (2009). Geological Survey of Israel, Jerusalem, Israel, 5 November, 2009.
93. **Invited Speaker** - C.W. Marean (2009). The Cape Floral Kingdom, Shellfish, and Modern Human Origins (2009). University Lecture Series, Hebrew University, Jerusalem, Israel, 8 November.

94. **Invited Speaker** - C.W. Marean (2009). The South African Evidence for Modern Human Origins (2009). Department of Prehistory, Hebrew University, Jerusalem, Israel, 10 November.
95. **Invited Speaker** - C.W. Marean (2009). The Cape Floral Kingdom, Shellfish, and Modern Human Origins (2009). University of Minnesota Quaternary Science Speaker Series, University of Minnesota, 7 October.
96. **Invited Keynote Speaker** – C.W. Marean (2009). The Cape Floral Kingdom, Shellfish, and Modern Human Origins (2009). CALPE 2009: Human Evolution 200 Years After Darwin. Gibraltar, 16-20 September.
97. M. Bar-Matthews, C.W. Marean, Z. Jacobs, P. Karkanas, E.C. Fisher, A.I.R. Herries, K. Brown, H. M. Williams, J. Bernatchez, A. Ayalon, and P.J. Nilssen. (2009). A high resolution speleothem record of variable climate and environment 90-53,000 years ago from Pinnacle Point (south coast South Africa).and bearing on modern human origins and floral diversity. Bi-annual meeting of the South African Society for Quaternary Research. Knysna, South Africa, 6-10 September.
98. K. S. Brown, J. Bernatchez, C.W. Marean A.I.R. Herries, Z. Jacobs, M. Bar-Matthews, Erich Fisher, H.M. Williams. (2009). An Archaeological Sequence from MIS 3-5: The Middle Stone Age at Pinnacle Point Site 5-6.
99. Bi-annual meeting of the South African Society for Quaternary Research. Knysna, South Africa, 6-10 September.
100. E.C. Fisher, M. Bar-Matthews, A. Jerardino, and C.W. Marean. (2009). Middle and Late Pleistocene Paleoscape Modeling along the Southern Coast of South Africa. Bi-annual meeting of the South African Society for Quaternary Research. Knysna, South Africa, 6-10 September.
101. C.W. Marean (2009). Pinnacle Point In Context: The Cape Floral Kingdom, Shellfish, And Modern Human Origins . Bi-annual meeting of the South African Society for Quaternary Research. Knysna, South Africa, 6-10 September.
102. S.W. Lansing, A.L. Rector, K.E. Reed, J.A. Lee-Thorp, C.W. Marean (2009).Taphonomic, taxonomic, and isotopic analyses of a Marine Isotope Stage 6 Carnivore Den from Pinnacle Point, Mossel Bay, South Africa. The Annual Meeting of the Paleoanthropology Society. Chicago, March 31-April 1.
103. **Invited Speaker** – C.W. Marean (2009). The Cape Floral Kingdom, Shellfish, and Modern Human Origins: Transdisciplinary Problems require Transdisciplinary Projects. Gustavus Adolphus College Rydell Professorship Lecture, 11 March.
104. **Invited Speaker** – C.W. Marean (2009). The African Origins of Modern Human Behavior Minnesota Science Center, St. Paul, Minnesota, 10 March.
105. Herries, A.I.R., Adams, J., Braun, D., Brink, J., Brown, K., Marean, C., Roberts, D., Warr, G., 2009. Palaeomagnetism through space and time in Africa; analysis of the Langebaanweg, Makapansgat, Hoogland, FwJj20, Cornelia and Pinnacle Point fossil and hominid sites. 12th Conference on Australasian Vertebrate Evolution Palaeontology and Systematics (CAVEPS 2009). UNSW, Sydney, Australia. 22-25<sup>th</sup> June.
106. **Invited Speaker** – C.W. Marean (2008). The African Origins of Modern Human Behavior . Talk presented at the Nobel Conference 44, Gustavus Adolphus College, 7 October. Talk downloadable at <http://gustavus.edu/events/nobelconference/2008/>.



107. **Invited Speaker** – C.W. Marean (2008). Fynbos, Shellfish, and Modern Human Origins. Talk presented at the Department of Geology, University of Bristol, United Kingdom, 30 April.
108. **Invited Plenary Speaker** – C.W. Marean (2008). The Cape Floral Kingdom, Shellfish, and Modern Human Origins: Transdisciplinary Problems require Transdisciplinary Projects. NSF/NRC Board on Earth Sciences and Resources Workshop: Earth system context for hominin evolution, The Arnold and Mabel Beckman National Academy Center, University of California Irvine, February 20-21.
109. Bar-Matthews, M., Marean, C. W., Karkanas, P., Jacobs, Z., Fisher, E., Herries, A. I. R., Ayalon, A. and Schilman, B. (2008). A high-resolution and continuous isotopic speleochem record of paleoclimate and paleoenvironment from 92-55 ka from Pinnacle Point, South Africa. The Annual Meeting of the Paleoanthropology Society. Vancouver, British Columbia, March 25 - March 26, 2008
110. Bernatchez, J., Brown, K., Marean, C. W., Jacobs, Z., Rector, A. and Williams, H. M. (2008). A Continuous Archaeological Sequence from MIS 3 to 5: Preliminary Results from the Middle Stone Age Deposits at Pinnacle Point Site 5-6, Mossel Bay, Southern Cape, South Africa. The Annual Meeting of the Paleoanthropology Society. Vancouver, British Columbia, March 25 - March 26, 2008
111. Brown, K., Marean, C. W., Herries, A. I. R., Braun, D., Tribilo, C., Roberts, D. L. and Jacobs, Z. (2008). First Documentation of Heat Treatment of Silcrete in the Howieson's Poort and Still Bay Middle Stone Age Industries, Southern Cape, South Africa. The Annual Meeting of the Paleoanthropology Society. Vancouver, British Columbia, March 25 - March 26, 2008
112. Jerardino, A. and Marean, C. W. (2008). Shellfish gathering and marine paleoecology during the Middle and Late Pleistocene: perspectives from Cave 13B, Pinnacle Point, South Africa. 73rd Annual Meeting of the Society for American Archaeology. *New Views on Ancient Africa – Papers in Honor of C. Garth Sampson* Vancouver, British Columbia, March 26 - March 30, 2008
113. Marean, C. W., Bar-Matthews, M., Bernatchez, J., Fisher, E., Goldberg, P., Herries, A. I., Jacobs, Z., Jerardino, A., Karkanas, P., Minichillo, T., Nilssen, P. J., Rector, A., Reed, K., Thompson, E. N., Thompson, J. C., Watts, I. and Williams, H. M. (2008). Human use of marine resources, pigments, and bladelets at Pinnacle Point Site 13B (South Africa) during the Middle and Later Pleistocene. The Annual Meeting of the Paleoanthropology Society. Vancouver, British Columbia, March 25 - March 26, 2008
114. Marean, C. W., Bar-Matthews, M., Fisher, E., Goldberg, P., Herries, A. I. R., Jacobs, Z., Jerardino, A., Karkanas, P. and Nilssen, P. J. (2008). The life history of Pinnacle Point Cave 13B (Mossel Bay, South Africa): Setting the context for human occupation. 73rd Annual Meeting of the Society for American Archaeology. *New Views on Ancient Africa – Papers in Honor of C. Garth Sampson* Vancouver, British Columbia, March 26 - March 30.
115. Thompson, E. N. and Marean, C. W. (2008). Cape St. Blaize Cave and the use of the term Mossel Bay in Middle Stone Age Studies. 73rd Annual Meeting of the Society for American Archaeology. *New Views on Ancient Africa – Papers in Honor of C. Garth Sampson* Vancouver, British Columbia, March 26 - March 30, 2008
116. Bar-Matthews, M., Marean, C.W., Fisher, E., Goldberg, P., Herries, A., Jacobs, Z., Karkanas, P. and P. J. Nilssen (2007). Isotopic records of speleothems and Aeolian sediments in caves from Mossel Bay, South Africa: recorders of paleoclimatic and environment. AIG7 Conference, Stellenbosch, South Africa

117. **Invited Speaker** – C.W. Marean (2007). Shellfish, Fynbos, and the Origins of Modern Humans. Energy and Sustainability: South African National Committee of CIGRe, 31 October 2007, Diaz Beach Hotel, Mossel Bay, Western Cape, South Africa.
118. C. W. Marean, M. Bar-Matthews, E. Fisher, P. Goldberg, A. Herries, Z. Jacobs, P. Karkanas, P. J. Nilssen. (2007). Cave life history at Pinnacle Point (Mossel Bay, South Africa): Its implications for climate, environment, and human occupation over the last 400,000 years. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.
119. Herries, A.I.R., Fisher, E., Bar-Matthews, M., Goldberg, P., Jacobs, Z., Karkanas, P., Marean, C.W and Tribolo, C. (2007). Multi-dimensional modelling of magnetic mineralogy to detect anthropogenic alteration of Middle Stone Age sediments at Cave 13B, Pinnacle Point, Western Cape, South Africa. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.
120. Z. Jacobs and C.W. Marean (2007). A punctuated presence: the influence of palaeoenvironmental factors on human occupation at Pinnacle Point, South Africa. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.
121. **Poster** - Dave L. Roberts , Zenobia Jacobs , Panagiotis (Takis).Karkanas and Curtis W. Marean (2007). Onshore expression of multiple orbitally driven Late Quaternary marine incursions on the ultrastable southern South African coast. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.
122. **Poster** – T. Matthews, C. W. Marean and D Roberts (2007). Modern owl pellet and small carnivore scat collections as analogues for the interpretation of fossil micromammal assemblages along the southern coast of South Africa. INQUA 2007 CONGRESS, Cairns, Queensland, Australia Saturday 28 July – Friday 3 August.
123. C. W. Marean , M. Bar-Matthews, P. Nilssen, E. Fisher, A. Herries, P. Karkanas (2006). Paleoclimatic Context of the Origins of Modern Humans in South Africa: Based on Speleothem Isotopic Records 16th Annual V.M. Goldschmidt Conference, Melbourne Exhibition and Convention Centre, Melbourne , Australia, 27 August - 1 September.
124. **Invited symposium participant** - Erin Thompson and C.W. Marean (2006). Paleogeography of the African Middle Stone Age (PAMSA): development of a GIS-based electronic atlas of Middle Stone Age sites in Africa . Delivered in the symposium titled African Middle Stone Age , SAA 71st Annual Meeting, San Juan, Puerto Rico, April 26 – 30.
125. **Invited symposium participant** – C. W. Marean, Miryam Bar-Matthews, Erich Fisher, Paul Goldberg, Andy Herries, Zenobia Jacobs, Panagiotis Karkanas, Peter J. Nilssen. (2006). Recent results from archaeological and geological fieldwork at Pinnacle Point (Mossel Bay, South Africa).. Delivered in the symposium titled African Middle Stone Age , SAA 71st Annual Meeting, San Juan, Puerto Rico, April 26 – 30.
126. Jocelyn A Bernatchez, C. W. Marean, Peter J. Nilssen (2006). Investigating Site Taphonomy using Artifact Orientation at Cave 13B, Mossel Bay, South Africa. Poster presented at SAA 71<sup>st</sup> Annual Meeting, San Juan, Puerto Rico, April 26-30.
127. **Invited Speaker** – C.W. Marean and Erin Lassiter (2005). Paleogeography of the African Middle Stone Age (PAMSA): development of a GIS-based electronic atlas of Middle Stone Age sites in Africa . Talk presented at Eco-cultural Niche Modeling: An OMLL-NSF Symposium, Les Eyzies, France, September 22-26.

128. **Invited Speaker** - C.W. Marean. (2005). Moving from the tropics to the colder climates: evolutionary context for the divergence of faunal exploitation adaptations of modern humans and Neanderthals. Talk presented at the Department of Archaeological Science, University of Bradford, 12 September.
129. **Invited Speaker** - C.W. Marean. (2005). Moving from the tropics to the colder climates: evolutionary context for the divergence of faunal exploitation adaptations of modern humans and Neanderthals. Talk presented at the Rethinking the Human Revolution conference, Cambridge University, United Kingdom, 7-11 September.
130. C. W. Marean, Miryam Bar-Matthews, Paul Goldberg, Andy Herries, Zenobia Jacobs, Panagiotis Karkanas, Peter J. Nilssen . (2005). Recent results from archaeological and geological fieldwork at Pinnacle Point (Mossel Bay, South Africa). 12th Panafrican Congress on Prehistory, Gaborone, Botswana, July 4-8.
131. **Invited Speaker** - C.W. Marean. (2005). Moving from the tropics to the colder climates: evolutionary context for the divergence of faunal exploitation adaptations of modern humans and Neanderthals. Talk presented at the University of Pennsylvania Department of Anthropology seminar series, 11 April.
132. **Invited Speaker** – N. Cleghorn and C. W. Marean (2004). The destruction of human-discarded bone by carnivores: the growth of a general model for bone survival and destruction in zooarchaeological assemblages African Taphonomy: A Tribute to the Career of C.K. Bob Brain, CRAFT Research Center and University of Indiana at Bloomington, April 29-May 1.
133. **Invited Speaker** – C.W. Marean (2004). The evolution of behavioral modernity: New evidence for an African origin. African Taphonomy: A Tribute to the Career of C.K. Bob Brain, CRAFT Research Center and University of Indiana at Bloomington, April 29-May 1.
134. **Invited symposium participant** - C.W. Marean, M. Domínguez-Rodrigo, and T. R. Pickering (2004). Skeletal element equifinality begins with method. Delivered in the symposium titled Symposium titled Ungulate Body-part Representation and Zooarchaeological Research: Addressing Issues of Equifinality, SAA 69<sup>th</sup> Annual Meeting, Montreal, Quebec: 31 March—4 April, 2004.
135. **Invited symposium participant** - N. Cleghorn and C. W. Marean (2004). Identifying the Skeletal Elements Useful for Behavioral Analysis. Delivered in the symposium titled Symposium titled Ungulate Body-part Representation and Zooarchaeological Research: Addressing Issues of Equifinality, SAA 69<sup>th</sup> Annual Meeting, Montreal, Quebec: 31 March—4 April, 2004.
136. J.C. Thompson, J.R.F. Bower, E.C. Fisher, A.Z.P. Mabulla, C.W. Marean, K. Stewart, C.F. Vondra (2004) Loiyangalani: Behavioral and Taphonomic Aspects of a Middle Stone Age site in the Serengeti Plain, Tanzania. 137. Annual Meeting of the Paleoanthropology Society, Montreal, March 29-30.
138. **Invited Speaker** – C. W. Marean (2003). Pinnacle Point at Mossel Bay, South Africa: Recent Field Investigations at a New Hominid and Middle Stone Age Locality. University of Cape Town Archaeology Lecture Series, 11 November.
139. **Invited Speaker** - C. S. Henshilwood and C. W. Marean (2003). The origin of modern human behavior: a review and critique of the models and their test implications. *The Human Genome and Africa Conference*, Spier, South Africa, 19th - 22nd March.

140. **Invited Speaker** – C. W. Marean (2003). Taphonomic and zooarchaeological perspectives on Middle Stone Age and Middle Palaeolithic Faunal Exploitation. *From Tools to Symbols. From Hominids to Modern Humans*, International Round Table, Johannesburg, 16-18 March 2003.
141. C. S. Henshilwood and C. W. Marean (2002). The origin of modern human behavior: a review and critique of the models and their test implications. Cold Spring Harbor, New York 30 October – 3 November.
142. C. W. Marean, P. Nilssen, A. Jerardino and D. Stnyder (2002). Pinnacle Point at Mossel Bay, South Africa: Recent Field Investigations at a New Hominid and Middle Stone Age Locality. 16th Biennial Conference of Africanist Archaeologists, University of Arizona, May 18-24, 2002.
143. C. W. Marean, P. Nilssen, A. Jerardino and D. Stnyder (2002). Pinnacle Point at Mossel Bay, South Africa: Recent Field Investigations at a New Hominid and Middle Stone Age Locality. Annual Meeting of the Paleanthropology Society, Denver, March 27-28.
144. **Invited Speaker** – C.W. Marean (2001). The evolution of behavioral modernity: New evidence for an African origins. Council for the Advancement of Science Writing, Tempe, AZ. November 6.
145. **Invited Speaker** – C.W. Marean (2001). The zooarchaeological evidence for the origins of modern humans. Anthropology Department Visiting Lecture Series. University of Tennessee, October 17.
146. **Invited Speaker** – C.W. Marean (2001). Neanderthals and early modern humans: Zooarchaeological perspectives on their evolutionary history. Anthropology Department Visiting Lecture Series. University of Tennessee, October 16.
147. **Invited Speaker** - C.W. Marean (2001). Zooarchaeological perspectives on the origins of modern humans. Quaternary Geology Lecture Series, Rutgers University, April 26.
148. **Invited symposium participant** - C.W. Marean, Y. Abe, and P. Nilssen (2001). The Analysis of Cutmark Frequencies in Zooarchaeology: A Review and a New Image-analysis GIS Approach. , delivered in the symposium titled Paleolithic Zooarchaeology: Paleoenvironments, Methods, and Case Studies from Across the Globe. 66<sup>th</sup> Annual Meeting of the Society for American Archaeology, New Orleans.
149. **Invited Speaker** - C.W. Marean (2001). Zooarchaeological perspectives on the origins of modern humans. South African Museum, Cape Town, March 27.
150. T. Minichillo and C.W. Marean (2000). Behavioral Ecological Modeling and Faunal Resource Use in the Middle Stone Age of South Africa Annual Meeting of the Paleanthropology Society, Philadelphia, April 3-4.
151. Y. Abe, C.W. Marean, P. Nilssen, and E. Stone (2000). Taphonomy And Zooarchaeology of The Die Kelders Cave 1 Middle Stone Age Large Mammal Remains Annual Meeting of the Paleanthropology Society, Philadelphia, April 3-4.
152. **Invited Speaker** - C.W. Marean (2000). Zooarchaeological perspectives on the origins of modern humans. Department of Zoology Seminar Series, University of Cape Town, South Africa, March 30.
153. **Invited Speaker** - C.W. Marean (1999). A critical look at the zooarchaeological evidence for the origins of modern human behavior. Department of Anthropology, University of Utah, Salt Lake City, October 28.
154. **Invited symposium participant** - C. W. Marean (1999). Large mammal skeletal element transport:

taphonomy guides the application of foraging theory , delivered in the symposium titled Contributions of Foraging Theory to Archaeology , 64<sup>th</sup> Annual Meeting of the Society for American Archaeology, Chicago, 1999.

155. C. W. Marean, N. Cleghorn, and Y. Abe (1998). Mousterian Hunters of the Zagros Mountains. , 8<sup>th</sup> International Congress of the International Council for Archaeozoology, Victoria, Canada, August 23-29.

156. C .J. Frey and C. W. Marean. (1998). Transcending preservational bias: Animal resource distribution at Iron Age `Ain Dara. 8<sup>th</sup> International Congress of the International Council for Archaeozoology, Victoria, Canada, August 23-29.

157. C. W. Marean (1998). A critique of the evidence for Middle Paleolithic/Middle Stone Age scavenging: new data from Kobeh Cave (Zagros Mountains).and Die Kelders Cave 1 Layer 10 (South Africa), Annual Meeting of the Paleoanthropology Society, Seattle, March 23-24.

158. C. W. Marean (1998). Middle Stone Age faunal exploitation in South Africa: new data from Die Kelders Cave I. Symposium on The archaeology of early modern humans in Africa, 63<sup>rd</sup> Annual Meeting of the Society for American Archaeology, Seattle, March 25-29.

159. L.E. Bartram and C.W. Marean (1997). Explaining the pattern of skeletal element abundance at Klasies River Mouth, South Africa: Kua ethnoarchaeology, the Die Kelders Middle Stone Age archaeofauna, long bone fragmentation, and carnivore ravaging. Economie Prehistorique: Les Comportements de Subsistance au Paleolithique. Ville de`Antibes, France. October 23-25.

160. **Invited Speaker** - C.W. Marean (1997). Faunal exploitation strategies of Neanderthals and Early Modern Humans: Eurasia and Africa compared. Symposium on Neanderthals: New Perspectives , Smithsonian Institution, Washington DC, May 29.

161. S. Capaldo, R. Blumenschine, C.W. Marean. (1995). Blind tests of interanalyst correspondence and accuracy in the identification of cutmarks, percussion marks, and carnivore tooth marks on bone surfaces . Eastern States Archaeological Federation Conference, Wilmington, Delaware, October 26-29.

162. C.W. Marean. (1995). Grassland Hunters of the East African Middle and Later Stone Age. 10th Congress of the Pan African Association for Prehistory and Related Studies, Harrere, Zimbabwe, June 18-23.

163. Avery, G., K. Cruz-Urbe, P. Goldberg, F. Grine, R.G. Klein, M.J. Lenardi, C.W. Marean, W. J. Rink, H.P. Schwarcz, A.I. Thackeray, and M.L. Wilson. (1995). The 1992-1995 excavations at the Die Kelders Middle and Later Stone Age cave site, South Africa. 10th Congress of the Pan African Association for Prehistory and Related Studies, Harrere, Zimbabwe, June 18-23.

164. C.W. Marean. (1994). Late Quaternary Hunters of the Athi-Kapiti Plains, Kenya. 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1.

165. J. Bower and C.W. Marean. (1994). The Loiyangalani Site (HcJd1): New observations on an MSA occurrence in the Serengeti National Park, Tanzania. 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1.

166. **Invited session chair** - Conference session on `Later Adaptations: Hunters, Gatherers, and Stone Tool Makers.' 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1, 1994.

167. **Invited discussant** - Conference session on 'Zooarchaeological Approaches to Problems of Prehistory.' 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1, 1994.
168. **Invited discussant** - Conference session on 'Models and Tests of Early Hominid Behavior.' 12th Biennial Conference of Africanist Archaeologists, Indiana University, April 28-May 1, 1994.
169. C.W. Marean. (1994). Late Quaternary Faunal Exploitation at Lukenya Hill, Kenya. Annual Meeting of the Paleoanthropology Society, Anaheim, California, April 20.
170. C. W. Marean. (1993). Middle Stone Age Faunal Exploitation Strategies at Lukenya Hill, Kenya. International Congress in Honour of Dr. Mary D. Leakey's Outstanding Contribution in Paleoanthropology, Arusha, Tanzania, August 8-15.
171. **Invited Speaker** - C. W. Marean. (1992). Linking Experimental Taphonomy to Zooarchaeological Problems at Die Kelders Cave. Institute of Human Origins Paleoanthropology Series, Berkeley, California, December 28.
172. **Invited Speaker** - C.W. Marean. (1992). Experimental Taphonomy and Early Hominid Behavior. Symposium on Recent Advances in Human Evolution, held in conjunction with the annual meeting of the L.S.B. Leakey Foundation, SUNY at Stony Brook, October 19.
173. **Invited Speaker** - R.J. Blumenschine and C. W. Marean. (1991). A Carnivore's View of Archaeological Bone Assemblages. The Visiting Scholar conference, *From Bones to Behavior*, Southern Illinois University at Carbondale, April 12-13.
174. L.M. Orloff and C.W. Marean. (1990). Taphonomic Implications of Bone Choice and Destruction by Captive Spotted Hyenas. Annual Meeting of the Society for Vertebrate Paleontology, Kansas City, Kansas.
175. C.W. Marean; C.L. Ehrhardt, and N. Mudida. (1990). Late Quaternary Mammalian Fauna in Eastern Africa: Its Relevance for Environmental Change and Faunal Extinctions Sixth International Conference, International Council for Archaeozoology, Washington D.C.
176. C.W. Marean, R.J. Blumenschine, and S. Capaldo. (1990). Bone Choice, Modification, and Destruction by Captive Spotted Hyenas. Sixth International Conference, International Council for Archaeozoology, Washington D.C.
177. C.W. Marean and C.L. Ehrhardt. (1990). Paleocology of Extinct Carnivores and Implications for Actualistic Models. 10th Biennial Meeting of the Society of Africanist Archaeologists, Gainesville, Florida, 1990.
178. C.W. Marean. (1989). Sabertooth Cats and Their Relevance for Early Hominid Diet and Evolution. 54<sup>th</sup> Annual Meeting of the Society of American Archaeology, Atlanta, Georgia.

### **GRANTS FOR RESEARCH**

PI – National Science Foundation - Collaborative Research: Support for the Cryptotephra Laboratory for Archaeological and Geological Research at the UNLV and the Ceramic and Sediment Preparation Laboratory at ASU. 2019-2021. Archaeometry Program. \$98,985/ 2 years.

PI – Hyde Family Foundation - HOMER Project Consortium. 2018-2022. \$1,000,000.

PI – XSEDE High Performance Computing Grant - Simulating climate-environment-human interactions in coastal South Africa: Continuing the Development of a “Paleoscape Model” for studies of modern human origins. 2016-2017. \$44,371.02. XSEDE Extended Collaborative Support: 1.0 [Yes = 1, No = 0] TACC Dell PowerEdge C8220 Cluster with Intel Xeon Phi coprocessors (Stampede): 708,740.0 SUs TACC Long-term tape Archival Storage (Ranch): 8,000.0 GB SDSC Medium-term disk storage (Data Oasis): 500.0 GB SDSC Dell Cluster with Intel Haswell Processors (Comet): 85,908.0 SUs PSC Regular Memory (Bridges): 226,000.0 SUs PSC Large Memory (Bridges Large): 10,000.0 SUs PSC Storage (Bridges Pylon): 35,000.0 GB.

PI – National Science Foundation - Collaborative Research: Development and Application of Cryptotephra Studies to Resolve Debates over Chronology in Modern Human Origins Research in South Africa. 2015 – 2017. \$78,284, PI: Curtis W. Marean.

CO-PI – Templeton Foundation – The Evolutionary Foundations of Human Uniqueness. 2014-2017. \$4,934,108. PI: William Kimbel. CO-PI: Rob Boyd, Chris Campisano, Kim Hill, Curtis W. Marean, Kaye Reed, Joan Silk.

PI – XSEDE High Performance Computing Grant - Simulating glacial climate in coastal South Africa: Developing the climate parameters to model a paleoscape during modern human origins. 2014-2016. SDSC Appro Linux Cluster (Trestles): 9080 PSC Persistent disk storage (Data SuperCell): 19456 PSC SGI Altix UV (Blacklight): 394000 TACC Dell PowerEdge C8220 Cluster with Intel Xeon Phi coprocessors (Stampede): 821742 XSEDE Extended Collaborative Support: 3 TACC Long-term tape Archival Storage (Ranch): 8601 SDSC Medium-term disk storage (Data Oasis): 500. The value of these awarded resources is \$83,749. PI: Curtis W. Marean.

PI - Hyde Family Foundation - Early Modern Humans in Coastal South Africa: Building a Paleoscape Model of a Now Extinct Ecosystem, 2012-2017. \$500,000. PI: Curtis W. Marean.

PI – National Science Foundation IPG Program - Developing and Testing an Integrated Paleoscape Model for the early Middle and Late Pleistocene of the South Coast of South Africa. 2011 – 2017. \$1,000,000, PI: Curtis W. Marean. CO-PI: Richard Cowling, Kim Hill, and Janet Franklin.

PI - National Geographic Society – Follow the Coast: Marine Geophysical Study Of Early Human Use Of The Continental Shelf Of The South Coast, South Africa. 2010 - \$47,000, PI: Curtis W. Marean. CO-PI: Erich Fischer and Haley Cawthra.

PI – Hyde Family Foundation - The Mossel Bay Archaeology Project (MAP): A Long-Term Plan for Research into the Origins of Modern Human Behavior, 2009 - \$225,000.

CO-PI - Late Lessons in Early History/SHESC, Explaining a Confluence of Diversity and Complexity: Paleoanthropological and Paleogenetic Investigations of Fynbos, Marine Ecosystems and Human Origins. PIs: Kaye Reed; CO-PI: Brian Verrelli, Curtis W. Marean, 2008 - \$330,000.

PI – Hyde Family Foundation - The Mossel Bay Archaeology Project (MAP): A Long-Term Plan for Research into the Origins of Modern Human Behavior, 2008 - \$50,000.

PI – Hyde Family Foundation - The Mossel Bay Archaeology Project (MAP): A Long-Term Plan for Research into the Origins of Modern Human Behavior, 2007 - \$50,000.

PI – Hyde Family Foundation - The Mossel Bay Archaeology Project (MAP): A Long-Term Plan for Research into the Origins of Modern Human Behavior, 2006 - \$50,000.

PI – National Science Foundation Hominid Program - Paleoclimatic and paleoenvironmental context of the origins of modern humans in South Africa: Constructing a detailed record from 400,000 to 30,000 years ago, 2005 - \$2,500,000.

PI – ASU Multi-investigator Proposal Development Grant - Paleoclimatic and paleoenvironmental context for the origins of modern humans, 2004 - \$19,942.

PI – Hyde Family Foundation - The Mossel Bay Archaeology Project (MAP): A Long-Term Plan for Research into the Origins of Modern Human Behavior, 2002 - \$50,000.

PI – National Science Foundation – Excavations at Cave 13B, Pinnacle Point, Mossel Bay, South Africa: Faunal exploitation, raw material procurement, and organization of domestic space during the Middle Stone Age, 2002-2005 - \$240,000.

PI - National Science Foundation - Test excavations at Four Middle Stone Age sites near Mossel Bay, Western Cape Province, South Africa, 1999-2001 - \$20,000.

PI - National Science Foundation Grant - Zooarchaeological and taphonomic analysis of the Die Kelders Cave 1 (South Africa). Middle Stone Age Fauna, 1998-2001 - \$83,804.

PI - Wenner-Gren Foundation Grant - Zooarchaeological and taphonomic analysis of the lower Middle Stone Age Layers at Die Kelders Cave 1 (South Africa), 1998-99 - \$13,000

PI - National Science Foundation Grant - Paleolithic faunas of the Zagros Mountains: Zooarchaeological and Taphonomic Analysis, 1998-2001 - \$128,088

PI - Rockefeller Foundation Travel Grant to Ethiopia, 1997 - \$5500.

PI - L.S.B. Leakey Foundation Grant for archaeological reconnaissance of the Mkulumuzi River Valley, Tanga District, Tanzania, 1995 - \$2500.

PI - National Science Foundation Grant for archaeological reconnaissance of the Mkulumuzi River Valley, Tanga District, Tanzania, 1995 - \$4800.

Co-PI (Fred Grine, Richard G. Klein, and Curtis W. Marean).- National Science Foundation Grant for archaeological excavations and zooarchaeological analysis at Die Kelders Cave, South Africa, 1991-1994 - \$330,000.

PI - L.S.B. Leakey Foundation Grant for analysis of fossil carnivores, 1992 - \$1000.

Co-PI (J. Desmond Clark and Curtis W. Marean). - National Science Foundation Doctoral Dissertation



Improvement Grant for archaeological and zooarchaeological research in Kenya and Tanzania, 1988-89 - \$9000 re-budgeted by Marean to \$2300.

PI - Boise Fund Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1988 - \$1600.

PI - L.S.B. Leakey Foundation Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1988 - \$2000.

PI - Lowie Fund Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1986 & 1988 - \$1000.

PI - L.S.B. Leakey Foundation Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1986 - \$3000.

PI - Sigma Xi Society Grant for archaeological and archaeozoological research in Kenya and Tanzania, 1986 - \$500.

### **PI ON GRANTS FOR GRADUATE STUDENT RESEARCH**

National Science Foundation Doctoral Dissertation Improvement for Simen Oestmo, 2015 - \$11,640

National Science Foundation Doctoral Dissertation Improvement for Benjamin Schoville, 2014 - \$12,722

National Science Foundation Doctoral Dissertation Improvement for Emily Hallett, 2012 - \$20,916

National Science Foundation Doctoral Dissertation Improvement for Jocelyn Bernatchez, 2009 - \$19,962

National Science Foundation Doctoral Dissertation Improvement for Jamie Hodgkins, 2009 - \$20,000

National Science Foundation Doctoral Dissertation Improvement for Jessica Thompson, 2005 - \$12,000

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Yoshiko Abe, 2002 - \$20,000

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Naomi Cleghorn, 2001 - \$8750

National Science Foundation Doctoral Dissertation Improvement for Denne Reed, 1998 - \$12,000

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Denne Reed, 1998 - \$15,000

National Science Foundation Doctoral Dissertation Improvement for Zelalem Assefa, 1997 - \$15,000

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Zelalem Assefa, 1997 - \$13,000

Doctoral Dissertation Grant from the L. S. B. Leakey Foundation for Zelalem Assefa, 1997 - \$4500

Doctoral Dissertation Grant from the Rockefeller Foundation for Zelalem Assefa, 1997, - \$17,063

Doctoral Dissertation Grant from the L. S. B. Leakey Foundation for Yin Man Lam, 1997 - \$2500

National Science Foundation Doctoral Dissertation Improvement Grant for Yin Man Lam, 1997 - \$15,000

Doctoral Dissertation Grant from the Wenner-Gren Foundation for Yin Man Lam, 1997 - \$13,000

National Science Foundation Doctoral Dissertation Improvement Grant for Lillian Spencer, 1992 - \$10,500

National Science Foundation Doctoral Dissertation Improvement Grant for Margaret Lewis, 1992 - \$10,500

### **ARCHAEOLOGICAL FIELDWORK**

Mossel Bay archaeological excavations, South Africa, (Middle Stone Age), every year 2000-2020.

Mossel Bay Archaeological Reconnaissance, South Africa, March 1999 and April 2000.

Mkulumuzi River Valley Archaeological Reconnaissance, Tanzania, July to August 1995.

Die Kelders Cave archaeological excavations, South Africa (Middle Stone Age to Later Stone Age), February to April of 1992, January to March of 1993, January to March of 1995.

Olduvai Gorge Archaeological Survey, Tanzania (Early Stone Age), July and August of 1988.

Jubba River Survey, Somalia (Middle Stone Age to Later Stone Age), September to November of 1987.

Enkapune Ya Muto, Kenya (Middle Stone Age to Later Stone Age), July to August of 1987, excavator and faunal analyst.

Ain Ghazal, Jordan (Pre-pottery Neolithic B), July to September of 1983, plot supervisor.

Pella of the Decapolis, Jordan (Neolithic to Ommayad), May to July of 1983, surveyor and draftsman.

Nuraghe Toscono Site, Sardinia (Nuragic to Roman), July and August of 1982, teaching assistant for field school, surveyor, and draftsman.

Nuraghe Urpes Site, Sardinia (Nuragic to Roman), June of 1982, teaching assistant for field school, surveyor, draftsman.

Cerrita Site, New Mexico (Basketmaker), summer of 1981, excavator.

Pot Creek Pueblo Site, New Mexico (Anasazi), summer of 1981, excavator.

Bedford Village Site, PA (Late Woodland), summer of 1980, student at field school.

### **SOCIETY AND ASSOCIATION MEMBERSHIP**

American Society for the Advancement of Science

Paleoanthropology Society

Society for American Archaeology

## **GRANT AND JOURNAL REFEREE/EDITOR**

**Editorial Board**      *Journal of PaleoAnthropology* 2001 – present  
*International Journal of Geoarchaeology* 1999 – present  
*Evolutionary Anthropology* – 2001 – present  
*Journal of Taphonomy* – 2002 – 2011

**Associate Editor**      *Quaternary Research* – 2007 – present  
*Journal of Human Evolution* 2000 – 2003  
*Journal of Human Evolution* 1995 - 1997

**Regular Referee** – *Nature, Science, PNAS, PLOS, Evolutionary Anthropology, Journal of Archaeological Science, American Antiquity, Journal of Human Evolution, International Journal of Osteoarchaeology, Quaternary Research, Quaternary Science Reviews, Earth and Planetary Science Letters, L.S.B. Leakey Foundation, National Science Foundation, and National Geographic Society.*

## **SIGNIFICANT NATIONAL SERVICE**

National Science Foundation Committee of Visitors for External Review of the Behavioral and Cognitive Sciences programs, 2015.

National Science Foundation Committee for Final Review of STC Application, 2010.

National Science Foundation Committee of Visitors for External Review of the Behavioral and Cognitive Sciences programs, 2006.

National Science Foundation Archaeology Panel, 1996-1999.

## **SIGNIFICANT UNIVERSITY ADMINISTRATIVE SERVICE**

SHESC Archaeology Approach Head, 2014-2015.

SHESC Research Committee Chair, 2011-2013.

SHESC Ruppe Prize Committee Chair, 2006-2009.

SHESC Colloquium Committee Chair, 2011 to 2012.

University Senate, ASU, 2011 and 2012.

Associate Director, Institute of Human Origins, 2001-2020.

Fulbright Panel, ASU, 2010,2011.

Sub-discipline Head for Archaeology, ASU, 8/2004-8/2005.

Member of the Stony Brook 5-year Plan Task Force on Academic Excellence 2000.

Director of the Interdepartmental Doctoral Program in Anthropological Sciences, SUNY at Stony Brook, 1998-2000.

Member of the University committee for Undergraduate Research and Creative Activities (URECA), 1998-present.

Member of the University committee for Simons Fellowships (for talented high school students to conduct research), 1998-present.

Director of Undergraduate Studies, Department of Anthropology, SUNY at Stony Brook, 1996-1998.

### **GRADUATE INSTRUCTION**

**Chair of Committee:** Lillian Spencer (Ph.D. received 1996), Margaret Lewis (Ph.D. received 1996), Yin Lam (Ph.D. received 2002), Zelalem Assefa (Ph.D. received 2002), Yoshiko Abe (Ph.D. received 2004), Naomi Cleghorn (Ph.D. received 2005), Denne Reed (Ph.D. received 2006), Jessica Thompson (Ph.D. received 2008), Jocelyn Bernatchez (Ph.D. received 2012), Jamie Hodgkins (Ph.D. received 2012), Hope Williams (Ph.D. received 2015), Ben Schoville (Ph.D. received 2015), Emily Hallet (Ph.D. received 2018), Simen Oestmo (Ph.D. received 2017), Jake Harris (Ph.D. received 2019), John Murray (ABD), Jayde Hirniak (MA received 2019), Patrick Fahey (MA received 2020), Christopher Brooke (CO-Supervisor at Nelson Mandela University, ABD).

**Member of Advisory Committee:** Linda Barber (Ph.D. received 1991), Kaye Reed (Ph.D. received 1995), Elizabeth McGee (Ph.D. received 1997), Frank Turano (Ph.D. received 1995), Salvatore Capaldo (Ph.D. received from Rutgers 1995, I was the outside member), Michael Bonasera (M.A. received 1992), Michael Lenardi (M.A. received 1998), Phillip Rassmann (M.A. received 1996), Jennifer Cole (Ph.D. received 2003), Laura Bidner (Ph.D. Received 2009), Amy Rector (Ph.D. received 2010), Tyler Faith (Ph.D. received 2011, I was external member), Aaron Armstrong (Ph.D. received 2015, I was the external member), Gabriel Popescu (Ph.D. 2015), Elizabeth Cully (Ph.D. received 2016), John Rowen (Ph.D. received 2018), Christopher Davis (PhD received 2019, I was external member), and James McGrath (PhD received 2020, I was the external member).

### **UNDERGRADUATE INSTRUCTION**

**Courses:** Introduction to Archaeology, Principles of Archaeology, Stone Age of Africa, Prehistoric and Historic Hunter-gatherers, Zooarchaeology, Principles of Archaeology

**Research:** I have been very active in promoting undergraduate and high school student research. Students of mine have won 8 awards for undergraduate research, and one was awarded the first Stony Brook Excellence in Research Award at the 1996 graduation. I have also supervised one Westinghouse (now Intel) high school student finalist.