

**ERICH C. FISHER**

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**EDUCATION**

**Ph.D.** University of Florida, Gainesville, FL. Dissertation: *Late Pleistocene technological change and hunter gatherer behavior at Moche Borago rockshelter, Sodo-Wolayta, Ethiopia: flaked stone artifacts from the early OIS 3 (60 - 43 ka) deposits*. Committee: Steven Brandt, Michael Heckenberger, Lisa Hildebrandt, Jon Krigbaum, Jasmeet Judge. 2010

**M.A.** University of Florida, Gainesville, FL. Committee: Steven Brandt, Susan Gillespie, Michael Binford. 2005

**B.A.** Southwest Texas State University, San Marcos, TX. 2002

**PUBLICATIONS****Peer-Reviewed Articles**

Cawthra, H., Compton, J., Fisher, E., Marean, C. (2016). Former land surfaces and palaeoshorelines on the Mossel Bay continental shelf, South Africa, *Quaternary International* 404, Part B, 195.

Copeland, S.R., Cawthra, H.C., Fisher, E.C., Lee-Thorp, J.A., Cowling, R.M., le Roux, P.J., Hodgkins, J., Marean, C.W. (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. (citations = 7)

De Vynck, J.C., Anderson, R., Atwater, C., Cowling, R.M., Fisher, E.C., Marean, C.W., Walker, R.S., Hill, K. (2016). Return rates from intertidal foraging from Blombos Cave to Pinnacle Point: Understanding early human economies, *Journal of Human Evolution* 92, 101-115. (citations = 6)

Esteban, I., De Vynck, J.C., Singels, E., Vlok, J., Marean, C.W., Cowling, R.M., Fisher, E.C., Cabanes, D., Albert, R.M. (2016). Modern soil phytolith assemblages used as proxies for Paleoscape reconstruction on the south coast of South Africa, *Quaternary International*, 434 (Part B), 160-179. (citations = 7)

Brandt, S.A., Fisher, E.C., Hildebrandt, E.A., Vogelsang, R., Ambrose, S.H., Lesur, J.p., and Wang, H. (2012). Early MIS 3 occupation of Mochena Borago Rockshelter, Southwest Ethiopian Highlands: Implications for Late Pleistocene archaeology, paleoenvironments and modern human dispersals, *Quaternary International* 274, 38-54. (citations = 39)

Erich Christopher Fisher

- Brown, K.S., Marean, C.W., Jacobs, Z., Schoville, B.J., Oestmo, S., Fisher, E.C., Bernatchez, J., Karkanas, P., and Matthews, T. (2012). An early and enduring advanced technology originating 71,000 years ago in South Africa, *Nature* 491, 590-593. (citations = 144)
- Cawthra, H.C., Compton, J.S., Fisher, E.C., MacHutchon, M.R., Marean, C.W. (2015). Submerged shorelines and landscape features offshore of Mossel Bay, South Africa, *Geological Society, London, Special Publications* 411, 219-233. (citations = 9)
- Fisher, E.C., Akkaynak, D., Harris, J., Herries, A.I.R., Karkanas, P., Marean, C.W., McGrath, J., Jacobs, Z. (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. (citations = 6)
- Franklin, J., Potts, A.J., Fisher, E.C., Cowling, R.M., Marean, C.W. (2015). Paleodistribution modeling in archaeology and paleoanthropology, *Quaternary Science Reviews* 110, 1-14. (citations = 20)
- Karkanas, P., Brown, K. S., Fisher, E. C., Jacobs, Z., Marean, C. W. (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. (citations = 23)
- Marean, C.W., Anderson, R.J., Bar-Matthews, M., Braun, K., Cowling, R.M., Engelbrecht, F., Esler, K.J., Fisher, E.C., Franklin, J., Hill, K., Janssen, M., Potts, A.J., Zahn, R. (2015). A New Research Strategy for Integrating Studies of Paleoclimate, Paleoenvironment, and Paleoanthropology. *Evolutionary Anthropology* 24(2), 62-72, March/April 2015. (citations = 20)
- Shook, E., Wren, C., Marean, C.W., Potts, A.J., Franklin, J., Engelbrecht, F., O'Neal, D., Janssen, M., Fisher, E., Hill, K. (2015). Paleoscape model of coastal South Africa during modern human origins: progress in scaling and coupling climate, vegetation, and agent-based models on XSEDE, Proceedings of the 2015 XSEDE Conference: Scientific Advancements Enabled by Enhanced Cyberinfrastructure, ACM, p. 2. (citations = 1)
- Fisher, Erich.C., Albert, R.-M., Botha, G., Cawthra, H.C., Esteban, I., Harris, J., Jacobs, Z., Jerardino, A., Marean, C.W., Neumann, F.H., Pargeter, J., Poupart, M., Venter, J. (2013). Archaeological Reconnaissance for Middle Stone Age Sites along the Pondoland Coast, South Africa. *PaleoAnthropology* (104-137). (citations = 22)
- Pickering, Robyn, Jacobs, Z., Herries, A., Karkanas, P., Bar-Matthews, M., Woodhead, J.D., Kappen, P., Fisher, E., and Marean, C. (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*. (citations = 37)
- Bar-Matthews, M., Marean, C.W., Jacobs, Z., Karkanas, P., Fisher, E.C., Herries, A.I.R., Brown, K., Williams, H.M., Bernatchez, J., Ayalon, A., and Nilssen, P.J. (2010). A high resolution and continuous isotopic speleothem record of paleoclimate and paleoenvironment from 90 to 53 ka from Pinnacle Point on the south coast of South Africa. *Quaternary Science Reviews* 29: 2131-2145. (citations = 110)

- Fisher, Erich C., Bar-Matthews, M., Jerardino, A., and Marean, C.W. (2010). Middle and Late Pleistocene paleoscape modeling along the southern coast of South Africa. *Quaternary Science Reviews* 29: 1382-1398. (citations = 105)
- Herries, A.I.R. and Fisher, E.C. (2010). Multidimensional GIS modeling of magnetic mineralogy as a proxy for fire use and spatial patterning: Evidence from the Middle Stone Age bearing sea cave of Pinnacle Point 13B (Western Cape, South Africa). *Journal of Human Evolution* 59: 306-320. (citations = 30)
- Marean, C.W., Bar-Matthews, M., Fisher, E., Goldberg, P., Herries, A., Karkanas, P., Nilssen, P.J., and Thompson, E. (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. (citations = 57)
- Marean, C.W., Bar-Matthews, M., Bernatchez, J., Fisher, E., Goldberg, P., Herries, A.I.R., Jacobs, Z., Jerardino, A., Karkanas, P., Minichillo, T., Nilssen, P.J., Thompson, E., Watts, I., and Williams, H.M. (2007). Early human use of marine resources and pigment in South Africa during the Middle Pleistocene. *Nature* 449: 905-908. (citations = 614)

### **Book Chapters**

- Fisher, Erich C. and Curtis W. Marean (2016). "Data Visualization." In *The Encyclopedia of Geoarchaeology*, Allan S. Gilbert and Rhodes W. Fairbridge (eds). New York: Springer.
- Cawthra, H.C., Compton, J.S., Fisher, E.C., MacHutchon, M.R., Marean, C.W. (2015). "Submerged shorelines and landscape features offshore of Mossel Bay, South Africa." In: *Geology and Archaeology: Submerged Landscapes of the Continental Shelf*, Harff, J., Bailey, G. & Lüth, F. (eds) Geological Society, London Special Publications, 411.
- Shook, E. Wren, C., Marean, C.W., Potts, A.J., Franklin, J., Engelbrecht, F., O'Neal, D., Janssen, M., Fisher, E.C., Hill, K., Esler, K.J., Cowling, R.M., Scheiter, S., Moncrieff, G. (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: *XSEDE '15 Proceedings of the 2015 XSEDE Conference: Scientific Advancements Enabled by Enhanced Cyberinfrastructure*. ACM.
- Marean, C.W., Cawthra, H.C., Cowling, R.M., Esler, K.J., Fisher, E.C., Milewski, A., Potts, A., Singels, E., De Vynck, J. (2014). "Stone age people in a changing South African Greater Cape Floristic Region." In *Fynbos: Ecology, evolution, and conservation of a megadiverse region*, Nicky Allsopp, Jonathan F. Colville, G. Anthony Verboom (eds). Oxford: Oxford University Press, 164-199.

### **Peer-Review in Press or Under Review**

- Cawthra, H.C., Jacobs, Z., Compton, J.S., Fisher, E.C., Karkanas, P., Marean, C.W., In Press., Paleoshoreline depositional history from MIS6 (Termination II) to MIS 3 on the southern margin of South Africa.

## Erich Christopher Fisher

Hodgkins J, Le Roux P, Marean CW, Penkman K, Crisp M, **Fisher, E**, Lee-Thorp JA. *In Press*.  
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. In: Pilaar Birch S (ed.) *Multispecies Archaeology*. Taylor & Francis/Routledge: Oxford

### Non-Peer Review Articles

Fisher, Erich C. (2016). The P5 Project: Research questions, current results and future directions, *The Digging Stick* 33(1), 1-5.

Fisher, Erich C. (2009). "Multidimensional GIS, Archaeology, and Coastal Environments." *Beyond Blue 2*: 78 -82.

Fisher, Erich, Pyne, L., and Marean, C.W. (2005). "Caves, sea levels, and sand dunes: Applying 3D GIS to South African archaeology." *Geoconnexion Magazine*, May, p.40-41.

Fisher, Erich, 2005. "Applications of multi-dimensional GIS within subsurface archaeology." *Geoconnexion Magazine*, July/August, p.48-50.

## PRESENTATIONS

### Keynote Lectures

Fisher, E.C. (2013). *Archaeoinformatic Application in Prehistoric Archaeology*. Arizona Geographic Information Council, September 25-27, 2013, Prescott, AZ

### Invited Lectures

Fisher, E.C. (2015). *The origins of modern humans in coastal environments*. 9 February 2015, School of Earth and Environmental Sciences, University of Wollongong, Australia.

Fisher, E.C. (2014). *The evolution of modern humans in coastal habitats: From Pinnacle Point to Pondoland*. Lecture series of the East London Museum. 3 December, East London, Eastern Cape Province, South Africa.

Fisher, E.C., Brown, K.S., Karkanas, P., Jacobs, Z., C. W. Marean, Schoville, B.J. (2012). *Reconstructing Late Pleistocene site formation processes using multi-proxy data sets and novel, empirical 3D GIS models at site PP5-6, Pinnacle Point, South Africa*. Annual Meeting of the Australian Archaeological Society, 9-13 December, Wollongong, New South Wales, Australia.

Fisher, E.C. (2008) *Multidimensional spatial modeling and analysis techniques used at Moche Borago rockshelter, Wolayta, Ethiopia*. Ethiopian ARCCH Millennium Conference, January 12 – 14, Addis Ababa, Ethiopia.

## Presentations

- Fisher, E.C., Hodgkins, J., Marean, C.W. (2017). *An Updated GIS-Based System for Calculating MNE and Quantifying Bone Surface Modification Frequencies and Spatial Location on Skeletal Elements in Faunal Assemblages*. 82<sup>nd</sup> Annual Meeting of the Society for American Archaeology, March 29 – April 2, Vancouver, British Columbia, Canada.
- Cawthra, H.C., Compton, J.S., Fisher, E.C., Jacobs, Z., Marean, C.W. (2015). *Marine geophysics reveals the character of the now submerged Paleo-Agulhas plain*. 80<sup>th</sup> Annual Meeting of the Society for American Archaeology, 15-19 April, San Francisco, California.
- Copeland, S., Cawthra, H.C., Cowling, R.M., Fisher, E.C., Lee-Thorp, J., le Roux, P., Marean, C.W. (2015). *Testing the Paleo-Agulhas plain migration ecosystem hypothesis with serial isotope analysis of fossil fauna*. 80<sup>th</sup> Annual Meeting of the Society for American Archaeology, 15-19 April, San Francisco, California.
- Fisher, E., Albert, R., Botha, G., Cawthra, H., Esteban, I., Harris, J., Jacobs, Z., Jerardino, A., Marean, C.W., Neumann, F., Venter, J. (2015) *The P5 Project archaeological reconnaissance along the Pondoland coast, South Africa*. 80<sup>th</sup> Annual Meeting of the Society for American Archaeology, 15-19 April, San Francisco, California.
- Hill, K., Janssen, M., de Vynck, J.C., Fisher, E.C., Marean, C.W. (2015). *Agent Based Models of Foraging Behavior: From the Neotropics to the Paleoscape*. 80<sup>th</sup> Annual Meeting of the Society for American Archaeology, 15-19 April, San Francisco, California.
- Smith, E., Ciravolo, A., Ren, M., Karkanas, P., Marean, C.W., Fisher, E.C., Cleghorn, N., Lane, C. (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*. 80<sup>th</sup> Annual Meeting of the Society for American Archaeology, 15-19 April, San Francisco, California.
- Smith, E., Ciravolo, A., Karkanas, P., Marean, C.W., Fisher, E., Cleghorn, N., Lane, C. and Ren, M. (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.
- Cawthra, H.C., Marean, C.W., Fisher, E.C., and Compton, J.S. (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, 13-16 September.
- 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.
- Fisher, E.C., Brown, K.S., Karkanas, P., Jacobs, Z., Marean, C.W., Schoville B.J. (2012). *Reconstructing Late Pleistocene site formation processes using multi-proxy data sets and novel, empirical 3D GIS models at site PP5-6, Pinnacle Point, South Africa*. Annual Meeting of the Paleoanthropology Society, 17-18 April, Memphis, Tennessee. *Paleoanthropology 2012*:A0001-A0039.

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- Herries, A.I.R., Pickering, R., Jacobs, Z., Karkanas, P., Bar-Matthews, M., Marean, C.W., Fisher, E.C., (2012). *New Dates Confirm a 1.1 Million Year Long Life History for Coastal Sea Caves at Pinnacle Point, S. Africa: A Presentation of the Geology, Geochronology, Paleontology, and Archaeology*. Annual Meeting of the Paleoanthropology Society, 17-18 April, Memphis, Tennessee. *Paleoanthropology* 2012:A0001-A0039.
- Herries, A.I.R., Pickering, R., Karkanas, P., Kappan P., Jacobs, Z., Bar-Matthews, M., E.C. Fisher, 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.
- Fisher, E.C. Bar-Matthews, M., Jerardino, A., Marean, C.W. (2010). *Middle and Late Pleistocene Paleoscape Modeling along the Southern Coast of South Africa*. Annual Meeting of the Paleoanthropology Society, 13-14 April, St. Louis, Missouri. *Paleoanthropology* 2010:A0001-A0040.
- Fisher, E.C., Bar-Matthews, M., Jerardino, A., Marean, C.W. (2009). *Middle and Late Pleistocene Paleoscape Modeling along the Southern Coast of South Africa*. XVIII Biennial Congress of the Southern Africa Society for Quaternary Research (SASQUA). Knysna, South Africa, September 7-10, 2009
- Bar-Matthews, M., Marean, C.W., Karkanas, P., Jacobs, Z., Fisher, E.C., Herries, A.I.R., Ayalon, A., Schilman B. (2008). *A high-resolution and continuous isotopic speleothem record of paleoclimate and paleoenvironment from 92-55 ka from Pinnacle Point, South Africa*. Annual Meeting of the Paleoanthropology Society, March 25 - March 26, Vancouver, British Columbia. *Paleoanthropology* 2008:A1-A36.
- Herries, A.I.R., Thompson, J.C., Jacobs, Z., Fisher, E.C., Thompson, E.N., Kyriacou, K., Schwartz, S., Marean, C.W. (2008). *Evidence for a series of single occupation events at PP9 (Mossel Bay, South Africa) at 133 and 85 ka; further evidence for early systematic exploitation of marine resources*. Annual meeting of the Paleoanthropology Society, March 25 - March 26, Vancouver, British Columbia. *Paleoanthropology* 2008:A1-A36.
- Marean, C.W., Bar-Matthews, M., Fisher, E.C., Goldberg, P., Herries, A.I.R., Jacobs, Z., Jerardino, A., Karkanas, P., Nilssen, P.J. (2008). *The life history of Pinnacle Point Cave 13B (Mossel Bay, South Africa): Setting the context for human occupation*. Annual Meeting of the Paleoanthropology Society, March 25 - March 26, Vancouver, British Columbia. *Paleoanthropology* 2008:A1-A36.
- Marean, C.W., Bar-Matthews, M., Bernatchez, J., Fisher, E.C., Goldberg, P., Herries, A.I.R., Jacobs, Z., Jerardino, A., Karkanas, P., Minichillo, T., Nilssen, P.J., Rector, A., Reed, K., Thompson, E.N., Thompson, J.C., Watts, I., 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*. Paleoanthropology Society, March 25 - March 26, Vancouver, British Columbia. *Paleoanthropology* 2008:A1-A36.

- Marean, C.W., Bar-Matthews, M., Fisher, E.C., Goldberg, P., Herries, A.I.R., Jacobs, Z., Karkanas, P., Nilssen, P.J. (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*. 17<sup>th</sup> INQUA Congress, 28 July - 3 August 2007, Cairns, Australia. *Quaternary International* 2007:167-168.
- Herries, A.I.R., Fisher, E.C., Bar-Matthews, M., Goldberg, P., Jacobs, Z., Karkanas, P., Marean, C.W., Tribolo C. (2007). *Multi-dimensional modeling of magnetic mineralogy to detect anthropogenic alteration of Middle Stone Age sediments at Cave 13B, Pinnacle Point, Western Cape, South Africa*. 17<sup>th</sup> INQUA Congress, 28 July - 3 August 2007, Cairns, Australia. *Quaternary International* 2007:167-168.
- Mathews, T., Marean, C.W., Roberts, D., Fisher, E.C., Bernatchez, J. (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*. 17<sup>th</sup> INQUA Congress, 28 July - 3 August 2007, Cairns, Australia. *Quaternary International* 2007:167-168.
- Marean, C.W., Bar-Matthews, M., Fisher, E.C., Goldberg, P., Herries, A.I.R., Jacobs, Z., Karkanas, P., Nilssen, P.J. (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*. 17<sup>th</sup> INQUA Congress, 28 July - 3 August 2007, Cairns, Australia. *Quaternary International* 2007:167-168.
- Fisher, E.C. (2007) *Beyond smoke and mirrors: Applications of multidimensional GIS at two cave / rockshelter sites in Ethiopia and South Africa*. Annual Meeting of the society for American Archaeology, April 25-29, 2007, Austin Texas.
- Brandt, S.A., Kinahan, J., Asfaw, A., Desse, A., Fisher, E.C., Hagos, T., Negash, A., Said, H. (2006). *The Pleistocene archaeology of Southwestern Ethiopia: a dam approximation*. Annual Meeting of the Society for American Archaeology, San Juan, Puerto Rico, April 26 -30, 2006.
- C. W. Marean, M. Bar- Matthews, P. J. Nilssen, Fisher, E.C., A. Herries, Karkanas, P. (2006) *Paleoclimatic context of the origins of modern humans in South Africa: Based on speleothems isotopic records*. 16<sup>th</sup> Annual V.M. Goldschmidt Conference, Melbourne, Australia, 27 August - 1 September 2006.
- Fisher, E.C. (2006) *Shaping up Lithic Technological Change between the Middle and Late Stone Age in the Horn of Africa*. Annual Meeting of the Society for American Archaeology, San Juan, Puerto Rico, April 26 -30, 2006.
- Fisher, E.C. and Thompson, J.C. (2006). *A GIS approach to monitoring the ecological impact of excavations and tourist traffic at archaeological sites: a case study from Loiyangalani, Serengeti Plain, Tanzania*. Annual meeting of the Society for Applied Anthropology, Sante Fe, New Mexico, 28 March – 2 April.
- Thompson, J.C., Bower J., Fisher, E.C., Mabulla, A., Marean, C.W., Stewart, K., and Vondra, C., (2006). *Loiyangalani: Behavioral and taphonomic aspects of a Middle Stone Age site in the Serengeti Plain, Tanzania*. Annual Meeting of the Paleoanthropology Society, San Juan, Puerto Rico, April 26 -30.

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Fisher, E.C. (2004). *Computer morphometrics of lithics: reconstructing a Stone Age lithic chronology based on flake shape from southwestern Ethiopia*. Annual meeting of the Society for American Archaeology.

### FIELDWORK

Principal Investigator / Project Director – P5 Project archaeological excavations, Pondoland, South Africa (Early Stone Age to Middle Stone Age) Aug-Sept 2016; Sept-Nov 2015

Co-Field Director – SACP4 archaeological excavations, Pinnacle Point, South Africa (Middle Stone Age) May-July 2016; May-July 2015; May-June 2014; Oct-Nov 2014; Oct-Nov 2013; May-June 2014; Oct-Nov 2013; May-June 2013; Oct-Nov 2012; May-June 2012.

Principal Investigator / Project Director – Pondoland archaeological survey, South Africa (Early Stone Age to Later Stone Age) Sept-Oct 2012.

Senior Scientist – SACP4 archaeological excavation, Pinnacle Point, South Africa (Middle Stone Age) Oct-Nov 2011; Oct-Nov 2010; Oct-Nov 2008; Oct-Nov 2007; Oct-Nov 2006; Oct-Nov 2004.

West Coast archaeological survey, South Africa (Middle and Late Stone Age) Oct-Nov 2009.

Excavations at Mochena Borago Rockshelter, Ethiopia (Middle and Later Stone Age) Feb 2011; Feb-March 2010; Feb-March 2004; Feb-March 2009; Feb 2008; Feb-March 2007; Feb-March 2006; Feb-March 2005; Feb-March 2004; Feb-March 2003.

Loyangalani Excavations, Serengeti, Tanzania (Middle and Later Stone Age) June-July 2005; June-July 2004; June-July 2003.

Huqf Mountains survey, Oman (Early Stone Age) Jan-March 2001.

Southwest Texas State University Belize Valley Archaeological Project, San Ignacio, Belize 2000; 1999; 1998.

### GRAPHIC ARTS PRODUCTS

- 2017            Centerpiece display image for Nelson Mandela Metropolitan University Centre for Coastal Paleoscience museum exhibit, “Point of Human Origins.”
- 2016-2017     ASU Institute of Human Origins “Evolutionary Foundations of Human Uniqueness” website (<http://159.203.242.165>)
- 2015            P5 Project Public Outreach Videos: <https://vimeo.com/149451544>  
<https://vimeo.com/149453460>
- 2012            COVER ART - *Nature* 491, November 22, 2012.



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### **CURRENT RESEARCH PROJECTS**

Principal Investigator / Project Director – Pondoland Paleoenvironment, Paleoclimate, Paleoecology, and Paleoanthropology Project (P5)

Senior Scientist – South African Coastal Paleoenvironment, Paleoclimate, Paleoecology, and Paleoanthropology Project (SACP4)

Senior Scientist – Paleoscapes Project - Developing and Testing an Integrated Paleoscape Model for the Early Middle and Late Pleistocene of the South Coast of South Africa

### **AWARDS**

Co-PI – National Science Foundation. Collaborative research: development and application of cryptotephra studies to resolve debates over chronology in modern human origins in South Africa. PI: Eugene Smith and Curtis Marean, Co-PI: Minghua Ren - **\$78,284**.

PI – National Science Foundation. Coastal Early and Middle stone age archaeological excavations in eastern Pondoland, Eastern Cape Province, South Africa. Co-PI: Curtis Marean, Hayley Cawthra, Greg Botha, Jan Venter - **\$34,269**.

PI – National Geographic Society / Waitt Grants Program, #W160-11. Reconnaissance for coastal Stone Age Archaeological Sites within Pondoland, Eastern Cape, South Africa. Co-PI: Curtis Marean and Greg Botha, 2011 - **\$15,000**.

Senior Scientist – National Science Foundation Integrative Paleoanthropology Grants, #1138073. Developing and testing an integrated paleoscape model for the early Middle and Late Pleistocene of the South Coast of South Africa, 2011. PI: Curtis Marean, Co-PI: Richard Cowling, Kim Hill, and Janet Franklin - **\$1,049,994**.

Co-PI – National Geographic Society Expeditions Council Program, #EC0482-10. Follow the coast: marine geophysical study of early human use of the continental shelf of the South Coast, South Africa, 2010. PI: Curtis Marean, Co-PI: Hayley Cawthra - **\$47,905**.

Co-PI – U.S. Student Fulbright Award. Institute of International Education and U.S. State Department, 2007. PI: Steven Brandt (Ph.D. Supervisor) - **\$29,150**

### **HONORS**

National Honor Society: Delta Epsilon Iota, 2006

National Honor Society: Phi Kappa Phi, 2005

Title IV Foreign Language Area Scholarship, Amharic (2004-2005), University of Florida Center for African Studies.

Title IV Foreign Language Area Scholarship, Amharic (2003-2004), University of Florida Center for African Studies.

Liberal Arts Outstanding Anthropology Student Award, SWT, 2001

National Honor Society: Golden Key, 2000

National Honor Society: Alpha Chi, 2000

National Honor Society: Alpha Lambda Delta, 1999

## PROFESSIONAL DEVELOPMENT

### Service

Graduate Mentoring:  
Ada Dinçkal, LaTrobe University (MA, 2016)

Undergraduate Honor Mentoring:  
Colleen Sauer, Arizona State University (BA, 2012)

### Ad Hoc Reviewer

*Quaternary Science Reviews*  
*PLOS ONE*  
*Paleoanthropology*  
*African Archaeology Review*

### Affiliations

Honorary Researcher, Evolutionary Studies Institute, University of the Witwatersrand, Private Bag 3, Wits 2050, South Africa  
Associate Member, Centre for Coastal Palaeosciences, Department of Botany, Nelson Mandela Metropolitan University, Summerstrand South Campus, PO Box 77000, Port Elizabeth 6031  
Paleoanthropology Society  
Society for American Archaeology

## COLLEGE TEACHING EXPERIENCE

Fall 2007	Prehistoric and Classical Archaeology of the World (ANTH 321), Hawassa University, Ethiopia. Instructor.
Fall 2005	Lithic Technology (ANG 6128), University of Florida, Teaching Assistant.
Fall 2016	Archaeological Method and Theory (ASB330), Arizona State University, Guest Lecturer
Spring 2014	Anthropological Science Seminar (ASM300), Arizona State University, Guest Lecturer
Spring 2012	Archaeological Method and Theory (ASB330), Arizona State University, Guest Lecturer
Spring 2012	Stone Age of Africa (ASB497), Arizona State University, Guest Lecturer
Fall 2012	Evolution of Human Uniqueness (ASB191), Arizona State University, Guest Lecturer
Fall 2005	African Prehistoric Archaeology, Flagler College, Guest Lecturer

## EMPLOYEMENT HISTORY

2015 – Current	Assistant Research Scientist, Institute of Human Origins, Arizona State University
2014 – 2015	Assistant Research Scientist, School of Human Evolution and Social

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2012 – 2014 Change, Arizona State University  
Faculty Research Associate, School of Human Evolution and Social  
Change, Arizona State University  
2010 – 2012 Post-Doctoral Researcher, School of Human Evolution and Social Change,  
Arizona State University  
2008 – 2010 Academic Professional, School of Human Evolution and Social Change,  
Arizona State University

### PRIMARY COLLABORATORS

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