

CURRICULUM VITAE
Carlos E. Cordova, Ph.D.

Academic degrees

University of Texas at Austin	Geography	Ph.D. 1997
National Autonomous Univ. of Mexico (UNAM)	Geography	M.A. 1991
National Autonomous Univ. of Mexico (UNAM)	Geography	B.A. 1988

Appointments

2011-	Full Professor, Oklahoma State University - Geography
2003-2011	Associate Professor, Oklahoma State University - Geography
1997-2003	Assistant Professor, Oklahoma State University - Geography
1996-1997	Environmental research associate. Mariah Associates Inc., Austin, Texas.
1992-1997	Teaching and Research Assistant University of Texas at Austin -Geography
1988-1991	Lecturer and research lab staff. National School of Anthropology and History (ENAH), Mexico City.

Research fields, topics, and areas

Fields: Geoarchaeology, Quaternary Paleocology (pollen and phytoliths), Geomorphology, and Soils.

Topics: Past climates and past ecosystems; environmental change; landscape transformation; humans and environment through time

Areas: Middle East, Black Sea Region, Eurasia, Mexico, North American Great Plains, Southern Africa.

Courses taught on a regular basis

GEOG 1114 Intro to Physical Geography, GEOG 4023 Geography of Arid Lands, GEOG 4053 Biogeography, GEOG 4063/5063 Geoarchaeology and Environmental History, GEOG 4073/5073 Climate Change: Past, Present, and Future

Refereed Publications

Books

Cordova, C.E. 2018. *Geoarchaeology: The Human-Environmental Approach*. London: I.B. Tauris.

Cordova, C.E. 2016. *Crimea and the Black Sea: An Environmental History*. London: I.B. Tauris.

Cordova, C.E. 2007. *Millennial landscape in Jordan: Geoarchaeology and cultural ecology*. Tucson: University of Arizona Press.

Articles in journals and chapters in edited volumes

Cordova, C.E. 2017. Prehispanic and Colonial flood plain destabilization in the Texcoco Region and the Lower Teotihuacan Valley, Mexico. *Geoarchaeology: An International Journal* 62, 74-89.

- Cordova, C.E.**, Scott, L., Chase, B.M. and Chevalier, M., 2017. Late Pleistocene-Holocene vegetation and climate change in the Middle Kalahari, Lake Ngami, Botswana. *Quaternary Science Reviews* 171: 199-215.
- Cordova, C.** and Avery, G., 2017. African savanna elephants and their vegetation associations in the Cape Region, South Africa: Opal phytoliths from dental calculus on prehistoric, historic and reserve elephants. *Quaternary International*, 443: 189-211.
- Marinova, E., Harrison, S.P., Bragg, F., Connor, S., Laet, V., Leroy, S.A., Mudie, P., Atanassova, J., Bozilova, E., Caner, H. **Cordova, C.** et al., 2017. Pollen-derived biomes in the Eastern Mediterranean–Black Sea–Caspian-Corridor. *Journal of Biogeography* 45: 484-489
- Cordova, C.E.**, 2016. The Mediterraneanization of Crimea. Physical and cultural processes in landscape transformation. *Méditerranée: Journal of Mediterranean geography* 126: 25-36.
- Henry, D.O., **Cordova, C.E.**, Portillo, M., Albert, R.M., DeWitt, R. and Emery-Barbier, A., 2017. Blame it on the goats? Desertification in the Near East during the Holocene. *The Holocene* 27: 625-537.
- Cordova, C.E.**, and C.J.H. Ames. 2017. Quaternary sediments and soils of Jordan: Palaeoclimatic and Geoarchaeological Implications. In *Quaternary of the Levant*, Y. Enzel and O. Bar-Yosef (eds.), 531-538. Cambridge, UK: Cambridge University Press.
- Scott, L., Rossouw, L., **Cordova, C.** and Risberg, J., 2016. Palaeoenvironmental context of coprolites and plant microfossils from Unit II. Azokh 1. In *Azokh Cave and the Transcaucasian Corridor* (pp. 287-295). Springer International Publishing.
- Nowell, A, Walker, C. **Cordova, C.E.**, Ames, C.J.H., Pokines, J.T., Stueber, D., DeWitt, R., and Al-Souliman, A.S.A. 2016. Middle Pleistocene subsistence in the Azraq Oasis, Jordan: Protein residue and other proxies. *Journal of Archaeological Science* 73, pp.36-44.
- Pasturel, M., Alexandre, A., Novello A, Dièye,A.M., Wélé, A., Paradis, L. **Cordova, C.** and C Hély. C. 2016. Grass physiognomy traits variation in African herbaceous biomes. *Biotropica* 0(0): 1-10 DOI: 10.1111/btp.12282
- Cordova, C.E.** and Porter, J.C., 2015. The 1930s Dust Bowl: Geoarchaeological lessons from a 20th century environmental crisis. *The Holocene* 25: 1707-1720.
- Pasturel, M., Alexandre, A., Novello A, Dièye,A.M., Wélé, A., Paradis, L. **Cordova, C.** and C Hély. C. 2016. Grass physiognomy traits variation in African herbaceous biomes. *Biotropica* 0(0): 1-10 DOI: 10.1111/btp.12282
- Ames, C.J.H, and **Cordova, C.E.** 2015. Middle and Late Pleistocene landscape evolution at the Druze Marsh Site in northeast Jordan: Implications for population continuity and hominin dispersal. *Geoarchaeology: An International Journal* 30: 307-329.

- Ames, C.J.H., Nowell, A., **Cordova, C.E.**, Pokines, J.T., and Bisson, M.S. 2014. Paleoenvironmental change and settlement dynamics in the Druze Marsh: Results of recent excavation at an open-air Paleolithic site. *Quaternary International* 331: 60-73.
- Cordova, C.E.** 2013. C₃ Poaceae and Restionaceae phytoliths as potential proxies for reconstructing winter rainfall in South Africa. *Quaternary International* 287: 121-180.
- Ames, C.J.H., Nowell, A., **Cordova, C.E.**, Pokines, J.T., and Bisson, M.S. 2013 (in press). Paleoenvironmental change and settlement dynamics in the Druze Marsh: Results of recent excavation at an open-air Paleolithic site. *Quaternary International*. DOI number: <http://dx.doi.org/10.1016/j.quaint.2013.04.016>
- Cordova, C.E.**, Chase, B.M., Smith, G.F. 2013 Comment on “Burrough, S.E., Breman, E., and Dodd, C., 2012. Can phytoliths provide an insight into past vegetation of the Middle Kalahari paleolakes during the late Quaternary? *Journal of Arid Environments* 82,156–164”, *Journal of Arid Environments* 92: 113-116.
- Cordova, C.E.**, Nowell, A., Bisson, M., Ames, C.J.H. Pokines, J., Chang, M., al-Nahar, M. 2013. Interglacial and glacial desert refugia and the Middle Paleolithic of the Azraq Oasis, Jordan. *Quaternary International* 300:94-110
- Cordova, C.E.**, Nowell, A., Bisson, M., and Ames, C. Kalchgruber, R., 2011. Geomorphological and soil stratigraphic patterns associated with the Middle Paleolithic on the Madaba Plateau, Jordan: The case of the Ma'in Site Complex. *Journal of the Israel Prehistoric Society* 41: 5-36
- Pokines, J. T., A. Nowell, M. S. Bisson, **C. E. Cordova** & C. J. H. Ames. 2011. The functioning of a natural faunal trap in a semi-arid environment: Preliminary investigations of WZM-1, a limestone sinkhole site near Wadi Zarqa Ma'in, Hashemite Kingdom of Jordan. *Journal of Taphonomy* 92: 89-115.
- Cordova, C.E.**, Gerasimenko, N., and Kliukin, A.A., 2011. Late Pleistocene and Holocene paleoenvironments of Crimea: pollen, soils, geomorphology, and geoarchaeology. *In Geology and Geoarchaeology of the Black Sea Region: Beyond the Flood Hypothesis*, Buynevich, I, Yanko-Hombach, V., Gilbert, A., and Martin., R.E. (eds.), 133-164, Geological Society of America, Special Paper 473, Boulder, CO; Geological Society of America.
- Cordova, C.E.**, Johnson, W.C., Mandel, R., and Palmer, M., 2011. Opal phytoliths, carbon stable isotopes, and other microfossils from soils and paleosols of the south-central Great Plains, USA. *Catena* 85: 87-108.
- Santos, J.A., Cunha, L.J., **Cordova.C.**, Wiles, G., 2010. Late Holocene glacial chronology of College Fjord, South-Central Alaska. *Polar Geography* 33(3-4):101-114.

- Cordova, C.E.** and Scott, L. 2010. The potential of Poaceae, Cyperaceae, and Restionaceae phytoliths to reflect past environmental conditions in South Africa. *Palaeoecology of Africa* 30, 107-133. Volume edited by Jürgen Runge.
- Cordova, C.E.**, 2010. Palynology of anthropicized landscapes in Jordan: A survey of modern and fossil records of *Quercus*, *Pistacia* and *Olea* pollen. In *Archaeology of Anthropogenic Environments* (Center for Archaeological Investigations, Occasional Paper No. 37), ed. Rebecca Dean, 95-121. Carbondale: Southern Illinois University.
- Cordova, C.E.**, and Agenbroad, L., 2009, Opal phytoliths from teeth calculus in the mammoths of the Hot Springs Site, South Dakota, *Current Research in the Pleistocene* 26, 145-147.
- Cordova, C.E.**, S. Harrison, P. Mudie, S. Leroy and N. Ortiz. 2009. Pollen, plant macrofossil and charcoal records for paleovegetation reconstruction in the Mediterranean-Black Sea Corridor since the Last Glacial Maximum. *Quaternary International* 197, 12-26.
- Santos, J. and **Cordova, C.E.** 2009. Little Ice Age glacial morphology and sedimentology of Portage Glacier, south-central Alaska. *Finisterra* 87, 95-108.
- Cordova, C.E.** 2008. Floodplain degradation and settlement history in Wadi al-Wala and Wadi ash-Shallalah, Jordan. *Geomorphology* 101: 443-457.
- Butzer, K.W., J. T. Abbott, C.D. Frederick, P.H. Lehman, **C.E. Cordova**, and J.F. 2008. Oswald. Soil-geomorphology and 'wet' cycles in the Holocene record of North-Central Mexico. *Geomorphology* 101: 237-277.
- M. J. Power, J. Marlon, N. Ortiz, P. J. Bartlein, S. P. Harrison, F. E. Mayle, A. Ballouche, R. H. W. Bradshaw, C. Carcaillet, **C. Cordova**, and others. 2008. Changes in fire regimes since the Last Glacial Maximum: an assessment based on a global synthesis and analysis of charcoal data. *Climate Dynamics* 30: 887-907.
- Cordova, C.E.**, and W. Johnson. 2007. Paleobiomes and Paleopastures: A reconstruction of interactions of vegetation, climate, grazing and fire in South-Central North America since the Last Glacial Maximum. *Current Research in the Pleistocene* 24: 196-198.
- Bisson, M., A. Nowell, **C.E. Cordova**, R. Kalchgruber, and Maysoon Nahar. 2007. Human evolution at the crossroads: An archaeological survey in Northwest Jordan. *Near Eastern Archaeology* 69 (2): 73-85.
- Cordova, C.E.** 2007. Holocene Mediterraneanization of the Southern Crimean vegetation: paleoecological records, regional climate change, and possible non-climatic influences. In *The Black Sea Flood Question: Changes in Coastline, Climate, and Human Settlement*, V. Yanko-Hombach, A.S. Gilbert, N. Panin, and P.M. Dolukhanov (eds.), 319-344. Dordrecht: Kluwer Academic Publishers.

- Cordova, C.E.** and P.H. Lehman. 2005. Holocene environmental change in Southwestern Crimea (Ukraine) in pollen and soil records. *The Holocene* 15: 263-277.
- Cordova C.E.**, J.C. Porter, K. Lepper, R. Kalchgruber, and G. Scott, 2005. Sand dune morphology and stability along a bioclimatic gradient in north-central and northwestern Oklahoma. *Great Plains Research* 15 (2): 227-250.
- Cordova, C.E.**, C. Foley, A. Nowell, and M. Bisson. 2005. Landforms, sediments, soil development and prehistoric site settings in the Madaba-Dhiban Plateau, Jordan. *Geoarchaeology* 20: 29-56.
- Cordova, C.E.**, and P. Lehman. 2003. Archaeopalynology of synanthropic vegetation in the *chora* of Chersonesos, Crimea, Ukraine. *Journal of Archaeological Science* 30: 1483-1501.
- Henry, D.O., **C. Cordova**, J. J. White, R. M. Dean, J. E. Beaver, H. Ekstrom, S. Kadowaki, J. McCorriston, A. Nowell, and L. Scott-Cummins. 2003. The Early Neolithic Site of Ayn Abū Nukhayla, Southern Jordan. *Bulletin of the American Schools of Oriental Research* 330: 1-30.
- Cordova, C.E.** , A. Rybak and P. Lehman. 2001. Vegetation Patterns and Conservation Issues in Southern Crimea., *Post-Soviet Geography and Economics* 42(5) 49-72.
- Cordova, C.E.**, 2000. Geomorphological Evidence of Intense Prehistoric Soil Erosion in the Highlands of Central Jordan. *Physical Geography* 21(6): 538-567.
- Cordova, C.E.**, 1999. Landscape Transformation in the Mediterranean-Steppe Transition Zone of Jordan: A Geoarchaeological Approach. *The Arab World Geographer* 2 (3): 182-201.
- Cordova, C.E.** and J. Parsons. 1997. Geoarchaeology of an Aztec Dispersed Village. *Geoarchaeology* 12 (3): 177-210.
- Martin Del Pozzo, A.L., **C.E. Cordova**, and J. López. 1997. "Volcanic Impact on the Southern basin of Mexico during the Holocene. *Quaternary International* 43-44 (1):181-190.
- Cordova, C.E.**, Martin del Pozo, A.L. and López-Camacho, J. 1994. Paleolandforms and Volcanic Impact on the Environment of Prehistoric Cuicuilco, Southern Mexico City." *Journal of Archaeological Science* 21, 586 – 596.
- Cordova, C.E.** and A. Vazquez. 1991. El ciclo agrícola anual en la Cuenca Media del Balsas [The annual agricultural cycle in the Middle Balsas Basin] *Geografía y Desarrollo*, 2 (3): 23-29.