

## Daniel Alexander Contreras, Ph.D

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### Positions

- 2019 – Assistant Professor, Department of Anthropology, University of Florida; Affiliate Faculty, Center for Latin American Studies, University of Florida
- 2018 – 2019 Assistant Professor, Department of Anthropology, University of Maryland
- 2017 – 2018 Cultural Resources Principal Investigator, SWCA Environmental Consultants, Salt Lake City, UT
- 2017 – 2018 Adjunct Assistant Professor, Department of Anthropology, University of Utah
- 2017 Visiting Scientist, Institut Méditerranéen de Biodiversité et d'Ecologie marine et continentale (IMBE), Aix-Marseille Université
- 2014 – 2016 OT-Med Postdoctoral Research Fellow, AMENOPHYS – Adaptation of Mediterranean Economies of the Past to Hydroclimatic Changes, Institut Méditerranéen de Biodiversité et d'Ecologie marine et continentale (IMBE) / Groupement de recherche en économie quantitative d'Aix-Marseille (GREQAM), Aix-Marseille Université
- 2014 Visiting Researcher, Institute for Ecosystem Research, Christian-Albrechts-Universität zu Kiel
- 2011 – 2013 Humboldt Postdoctoral Fellow, Institute for Ecosystem Research, Christian-Albrechts-Universität zu Kiel
- 2009 – 2011 Postdoctoral Teaching Fellow, Introduction to the Humanities Program, Stanford University
- 2007 – 2009 Lecturer, Department of Anthropology, Stanford University
- 2008 – 2009 Research Associate, Cultural Heritage Resource, Stanford University

### Education

- 2007 Ph.D, Department of Anthropological Sciences, Stanford University  
Dissertation title: *Sociopolitical and Geomorphologic Dynamics at Chavín de Huántar, Peru*
- 2004 M.S., Anthropological Sciences, Stanford University
- 1998 M.A., Latin American Studies, Stanford University
- 1996 B.A., Religion (*Magna cum laude*), Amherst College  
Certificate, Five College Program in Latin American Studies

### Professional Interests

#### THEORY AND METHODS

geoarchaeology; human-environment interactions; digital methods and archaeology; GIS; R; socioecological modeling; geomorphology; environmental archaeology; prehistoric ecology; obsidian; origins and development of social inequality; looting and cultural heritage

#### REGIONS

Central Andes, Mesoamerica, Mediterranean

### Publications (\* indicates peer-reviewed)

#### Journal Articles

\* In press. **Contreras, Daniel A.** "Seeking Synchronicity: Re-examining the Peruvian Early Horizon through Bayesian Modeling of <sup>14</sup>C Dates." In Seki, Yuji, ed., *New Horizons in the Study of Chavín: Special Issue of Senri Ethnological Studies*.

- \* 2019 Carter, Tristan, **Daniel A. Contreras**, Justin Holcomb, Danica D. Mihailovic, Panagiotis Karkanis, Guillaume Guérin, Ninon Taffin, Dimitris Athanasoulis, and Christelle Lahaye. “Earliest occupation of the Central Aegean (Naxos), Greece: Implications for hominin and Homo sapiens’ behavior and dispersals”. *Science Advances*.
- \* 2019 Grillo, Katherine M. and **Daniel A. Contreras**. “Public archaeology’s mammoth in the room: engaging Wikipedia as a tool for teaching and outreach.” *Advances in Archaeological Practice* 7(4):435-442.
- \* 2019 **Contreras, Daniel A.**, Alberte Bondeau, Joël Guiot, Alan Kirman, Eneko Hiriart, Loup Bernard, Romain Suarez, and Marianela Fader. “From Paleoclimate Variables to Prehistoric Agriculture: Using a Process-Based Agroecosystem Model to Simulate the Impacts of Holocene Climate Change on Potential Agricultural Productivity in Provence, France.” In Kluiving, Sjoerd, ed. *Geoarchaeology Approaches and Methods: Special Issue of Quaternary International* 501B:303-316.
- \* 2018 **Contreras, Daniel A.**, Eneko Hiriart, Alberte Bondeau, Alan Kirman, Joël Guiot, Loup Bernard, Romain Suarez, and Sander Van Der Leeuw. “Regional Paleoclimates and Local Consequences: Integrating GIS Analysis of Diachronic Settlement Patterns and Process-Based Agroecosystem Modeling of Potential Agricultural Productivity in Provence (France).” *PLOS One* 13(12): e0207622.
- \* 2018 **Contreras, Daniel A.**, Joël Guiot, Romain Suarez, and Alan Kirman. “Reaching the Human Scale: A Spatial and Temporal Downscaling Approach to the Archaeological Implications of Paleoclimate Data.” *Journal of Archaeological Science* 93:54-67.
- \* 2018 Grillo, Katherine M., Prendergast, Mary E., **Contreras, Daniel A.**, et al. “Pastoral Neolithic Settlement at Luxmanda, Tanzania”. *Journal of Field Archaeology* 43(2):102-120.
- 2017 Marwick, Ben, Jade d’Alpoim Guedes, C. Michael Barton, Lynsey A. Bates, Michael Baxter, Andrew Bevan, Elizabeth A. Bollwerk, Tom Brughmans, Alison K. Carter, Cyler Conrad, **Daniel A. Contreras**, et al. “Open Science in Archaeology”. *SAA Archaeological Record* 17(4):8-14.
- \* 2017 Skarpelis, Nikolaos, Tristan Carter, **Daniel A. Contreras**, and Daniça D. Mihailović. “Characterization of the siliceous rocks at Stélida, an early prehistoric lithic quarry (Northwest Naxos, Greece), by petrography and geochemistry: A first step towards chert sourcing.” *Journal of Archaeological Science: Reports* 12:819-833.
- \* 2016 Carter, Tristan, **Daniel A. Contreras**, Kathryn Campeau, and Kyle Freund. “Spherulites and Aspiring Elites: The Identification, Distribution, and Consumption of Giali Obsidian (Dodecanese, Greece).” *Journal of Mediterranean Archaeology* 29(1):3-36.
- \* 2016 Ghilardi, Matthieu, Daniel Istria, Andrés Curras, Matteo Vacchi, **Daniel Contreras**, Claude Vella, Philippe Dussouillez, and Yannick Crest. “Reconstructing the Landscape Evolution and the Human Occupation of the Lower Sagone River (Western Corsica, France) from Bronze Age to The Medieval Period.” *Journal of Archaeological Science: Reports* 12:741-754.
- \* 2015 **Contreras, Daniel A.**, “Landscape Setting as Medium of Communication at Chavín de Huántar, Peru.” *Cambridge Archaeological Journal* 25(2):1-17.
- \* 2015 Djamali, Morteza, Matthew D. Jones, Jérémy Migliore, Silvia Balatti, Marianela Fader, **Daniel Contreras**, Sébastien Gondet, Zahra Hosseini, Hamid Lahijani, Abdolmajid Naderi, Lyudmila S. Shumilovskikh, Margareta Tengberg, Lloyd Weeks. “Olive Cultivation in the Heart of the Persian Achaemenid Empire: New Insights into Agricultural Practices and Environmental Changes Reflected in a Late Holocene Pollen Record from Lake Parishan, SW Iran.” *Vegetation History and Archaeobotany* 25(3):255-269.
- \* 2014 **Contreras, Daniel A.** “(Re)constructing the Sacred: Landscape Geoarchaeology at Chavín de Huántar, Peru.” In Roos, Christopher and Christian Wells, eds. *Geoarchaeology of Ritual Behavior and Sacred Places: Special Issue of Archaeological and Anthropological Sciences* 9(6):1045-1057.
- \* 2014 **Contreras, Daniel A.** and John Meadows. “Summed Radiocarbon Calibrations as a Population Proxy: A Critical Evaluation Using a Realistic Simulation Approach.” *Journal of Archaeological Science* 52:591-608.

\* 2014 **Contreras, Daniel A.**, Vincent Robin, Regina Gonda, Rachel Hodara, Marta Dal Corso, and Cheryl Makarewicz. "(Before and) After the Flood: A Multiproxy Approach to Past Floodplain Usage in the Middle Wadi Al-Hasa, Jordan." *Journal of Arid Environments* 110:30-43.

2014 Carter, Tristan, **Daniel A. Contreras**, Sean Doyle, Danica D. Mihailović, Theodora Moutsiou, and Nikolaos Skarpelis. "The Stélida Naxos Archaeological Project: New Data on the Mesolithic and Middle Palaeolithic Cyclades." *Antiquity* 88(341).

2012 **Contreras, Daniel A.**, Nicholas Tripcevich and Yuri I. Cavero Palomino. "Investigaciones en la fuente de la obsidiana tipo Quispisisa, Huancasancos- Ayacucho." *Investigaciones Sociales* 16(28):185-195.

\* 2012 Carter, Tristan and **Daniel A. Contreras**. "The Character and Use of the Soros Hill Obsidian Source, Antiparos (Greece)." *Comptes rendus Palevol* 11:595-602.

\* 2011 **Contreras, Daniel A.** "How Far to Conchucos? A GIS Approach to Assessing the Implications of Exotic Materials at Chavín de Huántar." *World Archaeology* 43(3):380-397.

\* 2011 Tripcevich, Nicholas and **Daniel A. Contreras**. "Quarrying Evidence at the Quispisisa Obsidian Source, Ayacucho, Peru." *Latin American Antiquity* 22(1):121-136.

2011 Rick, John W., Christian Mesia, **Daniel A. Contreras**, Silvia R. Kembel, Rosa M. Rick, Matt Sayre, and John Wolf. "La cronología de Chavín de Huántar y sus implicancias para el Periodo Formativo." *Boletín de Arqueología PUCP* 13:87-132.

\* 2010 **Contreras, Daniel A.**, "Huaqueros and Remote Sensing Imagery: Assessing Looting Damage in the Virú Valley, Peru." *Antiquity* 84(324):544-555.

\* 2010 **Contreras, Daniel A.** and Neil Brodie "The Utility of Publicly-Available Satellite Imagery for Investigating Looting of Archaeological Sites in Jordan." *Journal of Field Archaeology* 35(1):101-114.

\* 2010 **Contreras, Daniel A.** "A Mito-Style Structure at Chavín de Huántar: Dating and Implications." *Latin American Antiquity* 21(1):1-19.

\* 2010 **Contreras, Daniel A.** "Landscape and Environment: Insights from the Prehispanic Central Andes." *Journal of Archaeological Research* 18(3):241-288.

2010 **Contreras, Daniel A.** and Neil Brodie. "Shining Light on Looting: Using Google Earth to Quantify Damage and Raise Public Awareness." *SAA Archaeological Record* 10(3):30-33.

\* 2009 **Contreras, Daniel A.** "Reconstructing Landscape at Chavín de Huántar, Perú: A GIS-based Approach." *Journal of Archaeological Science* 36(4): 1006-1017.

\* 2009 **Contreras, Daniel A.** and David K. Keefer. "Implications of the Fluvial History of the Wacheqsa River for Hydrologic Engineering and Water Use at Chavín de Huántar, Peru." *Geoarchaeology* 24(5):589-618.

In preparation. **Contreras, Daniel A.** and John W. Rick. "Reconciling Sequences: Using Bayesian Modeling to Link Excavation, Architectural, and Ceramic Chronologies at Chavín de Huántar, Peru." To be submitted to *Journal of Archaeological Method and Theory*.

In preparation. **Contreras, Daniel A.** and Nicholas Tripcevich. "Retrospect and Prospect for Obsidian Studies in the Central Andes." To be submitted to *Latin American Antiquity*.

### Books

\* 2017 **Contreras, Daniel A.**, ed. *The Archaeology of Human-Environment Interactions: Strategies for Investigating Anthropogenic Landscapes, Dynamic Environments, and Climate Change in the Human Past*. Routledge Studies in Archaeology.

### Book Chapters

In press. **Contreras, Daniel A.** and Kristin Nado. "Interpreting Geochemically Characterized Obsidian from Chavín de Huántar, Peru." In Peterson, David and John Dudgeon (eds.), *The Archaeology of Circulation, Exchange and Human Migration: Techniques, Cases, Evidence*. Equinox Publishing, Ltd.

In press. **Contreras, Daniel A.** “Using R as a GIS: working with raster and vector data.” In Marwick, Ben (ed.), *How To Do Archaeological Science Using R*, <https://benmarwick.github.io/How-To-Do-Archaeological-Science-Using-R/>.

In press. **Contreras, Daniel A.** and John Meadows. “The Slow Rise of “Dates as Data”: Recent Approaches to <sup>14</sup>C Assemblages as Population Proxies.” In Juan A. Barceló and Berta Morell, eds. *Métodos Cronométricos en Historia y Arqueología*. Editorial Dextra.

2018 **Contreras, Daniel A.** “Hacia una geoarqueología del paisaje andina: paisaje, medioambiente, y acción humana en Chavín de Huántar.” In Flores Blanco, Luis Ángel, ed. *Lugares, Monumentos, Ancestros. Arqueologías del Paisajes Andinos y Lejanos*, Avqi Ediciones.

2018 Bertoncello, Frédérique, Marie-Jeanne Ouriachi, Célia Da Costa Pereira, Andrea Tettamanzi, Louise Purdue, **Daniel Contreras**, et al. “Modelling complex systems in Archaeology: general issues and first insights from the ModelAnSet project.” In Argentina, M. et al., eds. *Proceedings of the Complex Systems Academy of Excellence*. Université Côte d’Azur - Complex Systems Academy of Excellence, Nice. pp145-154.

\* 2017 **Contreras, Daniel A.**, “Not Just a Pyramid Scheme? Diversity in Ritual Architecture at Chavín de Huántar.” In Rosenfeld, Silvana and Stefanie Bautista, eds. *Rituals in Andean Archaeology: Prehispanic and Colonial Case Studies*. University Press of Colorado, pp51-77.

\* 2017 **Contreras, Daniel A.** and Cheryl Makarewicz. “Regional Climate, Local Paleoenvironment, and Early Cultivation at Pre-Pottery Neolithic A el-Hemmeh, Jordan.” In Contreras, D.A., ed. *The Archaeology of Human-Environment Interactions: Strategies for Investigating Anthropogenic Landscapes, Dynamic Environments, and Climate Change in the Human Past*. New York: Routledge, pp96-120.

\* 2017 **Contreras, Daniel A.** “Correlation is Not Enough – Building Better Arguments in the Archaeology of Human-Environment Interactions.” In Contreras, D.A., ed. *The Archaeology of Human-Environment Interactions: Strategies for Investigating Anthropogenic Landscapes, Dynamic Environments, and Climate Change in the Human Past*. New York: Routledge, pp3-22.

\* 2017 Carter, T., **Contreras, D.A.**, Holcomb, J. Mihailović, D.D., Skarpelis, N., Campeau, K., Moutsiou, T., and Athanasoulis, D., “The Stélida Naxos Archaeological Project: New Studies of an Early Prehistoric Lithic Quarry in the Cyclades”, in D.W. Rupp and J. Tomlinson (eds.), *From Maple to Olive: Proceedings of a Colloquium to Celebrate the 40<sup>th</sup> Anniversary of the Canadian Institute in Greece, 10-11 June 2016*. Publications of the Canadian Institute in Greece, 10, Athens

2016 **Contreras, Daniel A.** “La incorporación de la tradición Mito en el ámbito ritual de Chavín de Huántar.” In Ibarra, Bebel, ed. *Arqueología de la Sierra de Ancash 2: Cronología y Espacio*. Lima: Instituto de Estudios Huarinos, pp29-52.

2016 Carter, Tristan, **Daniel A. Contreras**, Sean Doyle, Daniça D. Mihailović, and Nikolaos Skarpelis. “Early Holocene Interaction in the Aegean Islands: Mesolithic Chert Exploitation at Stélida (Naxos) in Context.” In Ghilardi, Matthieu, ed., *Géoarchéologie des îles de la Méditerranée*. CNRS Éditions, pp275-286.

2013 Tripcevich, Nicholas and **Daniel A. Contreras**. “Archaeological Approaches to Obsidian Quarries: Investigations at the Quispisisa Source.” In Tripcevich, Nicholas and Kevin Vaughn (eds.), *Mining and Quarrying in the Ancient Andes: Sociopolitical, Economic and Symbolic Dimensions*. New York: Springer, pp23-44.

2012 Brodie, Neil and **Daniel A. Contreras**. “The Economics of the Looted Archaeological Site of Bâb Edh-Dhrâ: A View from Google Earth.” In Paula K. Lazrus and Alex W. Barker (eds.) *All The Kings Horses: Essays on the Impact of Looting and the Illicit Antiquities Trade on Our Knowledge of the Past*. Washington D.C.: Society for American Archaeology Press, pp9-24.

\* 2010 **Contreras, Daniel A.** “Reconstructing an Engineered Environment in the Central Andes: Landscape Geoarchaeology at Chavín de Huántar, Peru.” In *The Archaeology of Anthropogenic Environments*, edited by Rebecca M. Dean. Center for Archaeological Investigations, Occasional Paper No. 37. Carbondale: Southern Illinois University, pp225-249.

2008 **Contreras, Daniel A.** “Geomorfología y Paisaje en Chavín de Huántar.” In *Museo Nacional Chavín*. Lima: Instituto Nacional de Cultura, pp51-59.

#### Reviews

2015 **Contreras, Daniel A.** “Review of Håkansson and Widgren, eds, *Landesque Capital: The Historical Ecology of Enduring Landscape Modifications*.” *Journal of Anthropological Research* 71(2):286-287.

#### **Grants and Fellowships**

- 2019 National Science Foundation Grant (PI with Brian Coddig, co-PI) Collaborative Research: Improved Taphonomic Correction of Past Population Dynamics (Award 1921013)
- 2019 National Science Foundation Grant (co-PI with Ben Vining [PI] and Aubrey Hilman [co-PI]) Collaborative Research: Coupling and Cohesion as Factors Affecting Vulnerability to Abrupt Climate Change (Award 1847131)
- 2011 National Geographic Society Committee for Research and Exploration Grant #8916-11 (\$23,000, with Nicholas Tripcevich)
- 2011 Brennan Foundation Program in Support of Archaeological Field Research in the Development of Early Civilizations (\$5000)
- 2010 Council of American Overseas Research Centers Multi-Country Research Fellowship (\$10,000)
- 2006 Lewis and Clark Field Scholar Grant, American Philosophical Society (\$1800)
- 2006 John Mason Clark 1877 Fellowship, Amherst College (\$7200)
- 2006 Explorers Club Exploration Fund Grant (\$1200)
- 2006 Stanford Humanities Center Mellon Foundation Dissertation Fellowship (\$19,500)
- 2006 Freeman Spogli Institute O’Bie Shultz Dissertation Write-Up Grant (\$2000)
- 2005 National Science Foundation Doctoral Dissertation Improvement Grant # 0532350 (\$12,000)
- 2005 Amherst College Memorial Fellowship (\$4600)
- 2005 Graduate Research Opportunity Grant, Stanford School of Humanities and Sciences (\$5000)
- 2005 Lynford Family Foundation Grant (\$1000)
- 2003 Graduate Summer Field Research Grant, Stanford Center for Latin American Studies
- 2002 John Woodruff Simpson Fellowship, Amherst College (\$1600)
- 2002 Mellon Summer Fieldwork Grant (\$3000)
- 2002 Graduate Summer Field Research Grant, Stanford Center for Latin American Studies (\$4565)

#### **Awards**

- 2007 Joseph H. Greenberg Award for Academic Excellence in Anthropological Sciences, Department of Anthropological Sciences, Stanford University
- 2002 Annual Reviews Prize, Department of Anthropological Sciences, Stanford University
- 1996 Inducted into *Phi Beta Kappa* Society, Amherst College Chapter.
- 1996 Moseley Prize in Religion (2<sup>nd</sup> place), Amherst College.

#### **Archaeological Field Research**

- 2019 Project Geospatial Specialist and Geoarchaeologist – Later Prehistory of West Turkana Project, Jarigole, Kenya (P.I.s Elisabeth Hildebrand, Stony Brook University, Elizabeth Sawchuk, Stony Brook University, and Kate Grillo, U Florida)
- 2013 – 2019 Field Director, Stélida Naxos Archaeological Project, Naxos, Greece (P.I. Tristan Carter, McMaster University)
- 2010 – 2018 Project Geoarchaeologist, The el-Hemmeh Excavation Project, Wadi al-Hasa, Jordan (P.I. Cheryl Makarewicz, CAU Kiel)
- 2016 – 2018 Project Geoarchaeologist, Sharara Excavation Project, Wadi al-Hasa, Jordan (P.I.s Cheryl Makarewicz, CAU Kiel and Bill Finlayson, CBRL)
- 2015 – 2018 Project Geospatial Specialist and Geoarchaeologist – Northern Tanzania Archaeological Project, Luxmanda, Tanzania (P.I.s Kate Grillo, U Florida and Mary Prendergast, St. Louis University – Madrid)

- 2012 Project Geoarchaeologist, Stanford-Universidad del Valle Semetabaj Project, San Andres Semetabaj, Guatemala (P.I.s John Rick, Stanford University and Tomás Barrientos, Universidad del Valle)
- 2009 – 2012 Director, Proyecto Arqueológico Caracha Alta, Ayacucho, Peru (co-P.I. with Nicholas Tripcevich, U.C. Berkeley)
- 2010 – 13 Project Geoarchaeologist, McMaster Obsidian Procurement Expedition (P.I. Tristan Carter, McMaster University)
- 2010 Geoarchaeological Consultant, Remote Detection of Hydraulic Agricultural Features at Teotihuacan, Teotihuacan, Mexico (P.I. Ian Robertson, Stanford University)
- 2009 Geoarchaeological Consultant, Proyecto Arqueológico Stanford, Chavín de Huántar, Peru (P.I. John Rick, Stanford University)
- 2009 Ground-truthing satellite-identified Looting Damage in Jordan (co-P.I. with Neil Brodie, Stanford University)
- 2007 Field Consultant, Proyecto Arqueológico Queneto, Valle de Virú, Peru (P.I. Ignacio Cancino, Stanford University)
- 2002 – 2006 Field Director, Proyecto Arqueológico Stanford, Chavín de Huántar, Peru (P.I. John Rick, Stanford University)
- 2004-2005 Field Supervisor, Stanford-Universidad del Valle Semetabaj Project, San Andres Semetabaj, Guatemala (P.I. John Rick, Stanford University and Luisa Escobar Galo, Lic., Universidad del Valle)
- 2003 Field Supervisor, Stanford Field School, Çatalhöyük Archaeological Project, Çatalhöyük, Turkey (P.I. Ian Hodder, Stanford University)
- 1998, 2000 Field Assistant, Proyecto Arqueológico Stanford, Chavín de Huántar, Peru (P.I. John Rick, Stanford University)
- 1995 Student, Proyecto Arqueológico Valle de Naco, Cofradía, Honduras (P.I.s Ed Schortman and Pat Urban, Kenyon College)

### Teaching Experience

- 2019 *Global Prehistory: Postglacial Environments and the Origins of Food Production*, Anthropology, University of Florida
- 2018 *Introduction to Archaeology, Quantification and Statistics in Applied Anthropology*, Anthropology, University of Maryland
- 2011 *World Archaeology and Global Heritage*, Introduction to the Humanities, Stanford University
- 2010 *World Archaeology and Global Heritage*, Introduction to the Humanities, Stanford University
- 2009 *Past Human Environments; Applying GIS in Anthropological Research; Laws and Orders*, Anthropology and Introduction to the Humanities, Stanford University
- 2008 *Digital Methods in Archaeology; Introduction to Peruvian Prehistory; Archaeology as a Profession*, Archaeology Center, Stanford University.  
*Tropical Ecology and Conservation* (with Rodolfo Dirzo), Latin American Studies, Stanford University
- 2007 *Humanized Landscapes: Archaeological Approaches to Human-Environment Interactions, Advanced Andean Archaeology* (with John Rick), Archaeology Center, Stanford University
- 2006 *Models and Images in Archaeological Computing* (with John Rick), Anthropological Sciences, Stanford University
- 2003 – 2005 Teaching Assistant, Department of Anthropological Sciences, Stanford University. Courses included: *Introduction to Prehistoric Archaeology, Peruvian Archaeology, Human Origins, Introduction to Mesoamerican Archaeology*
- 1999 – 2001 History Teacher, Robert Louis Stevenson School, Pebble Beach, CA
- 1998 – 1999 Teaching Assistant, Center for Latin American Studies, Stanford University  
 Courses included: *History of Mexico, Sustainable Development in Latin America*
- 1997 – 1998 History Teacher, Punahou School, Honolulu, HI

### Professional Service

- 2019 Co-chair, *An Archaeological Example: Celebrating John Rick's Research and Teaching Career*, Symposium at the 84<sup>th</sup> Annual Society for American Archaeology Meeting, Albuquerque, NM
- 2018 – 2020 Member, Scientific Committee, *Historical Ecology for the Future: International conference on historical ecology*
- 2007 – 2019 Peer review for *Advances in Archaeological Practice*; *Ancient Mesoamerica*; *Andean Past*, *Antiquity*, *Arqueología y Sociedad*, *Arqueología*, *Cambridge Archaeological Journal*, *Chungara: Revista de Antropología Chilena*, *Environmental Archaeology*, *Geosciences*, *The Holocene*, *International Journal of Cultural Property*, *Journal of Anthropological Archaeology*; *Journal of Archaeological Research*, *Journal of Archaeological Science*, *Journal of Archaeological Science: Reports*, *Journal of Cultural Heritage*, *Journal of Field Archaeology*, *Latin American Antiquity*, *Nature Communications*, *Nanpa Pacha: Journal of Andean Archaeology*, *PNAS*, *Quaternary*, *Radiocarbon*, *Sustainability*
- 2017 – 2019 Member, Institute of Andean Studies <sup>14</sup>C Grant Committee
- 2017 – 2019 Member, Open Science Interest Group, Society for American Archaeology
- 2016 – 2019 Member, PAGES LandCover6k Working Group
- 2014 Chair, *Correlation Is Not Enough: Building Better Arguments in the Archaeology of Human-Environment Interactions*, Symposium at the 79<sup>th</sup> Annual Society for American Archaeology Meeting, Austin, TX
- 2013 Co-organizer, *Social and Environmental Change in Pre-Hispanic Latin America* session of the *Socio-Environmental Dynamics over the Last 12,000 Years International Open Workshop*, Kiel, Germany
- 2006 Organizer, “Searching for Patterns in the Diversity of the Central Andean Formative” Roundtable Symposium, held at Stanford University 3-4 March 2006.
- 2005-07 Co-coordinator, Stanford Obsidian Research Group, Stanford Archaeology Center
- 2003-07 Coordinator, Andean Archaeology Working Group, Center for Latin American Studies, Stanford University

#### Papers Presented (last 5 years)

- 2019 **Daniel A. Contreras**. “Datación Radiocarbónica en Chavín ¿de dónde?, ¿hacia dónde?, y ¿con que finalidad?”. Invited presentation at *Chavín, 100 años de Arqueología desde Julio C. Tello hasta nuestros días: Avances y Perspectivas*, Chavín de Huántar, Peru, August 2019.
- 2019 **Daniel A. Contreras**. “Approaching climate and archaeology in the Andes”. Invited presentation at *Climate, People, and Camelids in the Titicaca Basin: Bridging Archaeology, Paleoclimatology, and Organic Geochemistry*, University of Pittsburgh, May 2019.
- 2019 **Daniel A. Contreras** and Brian F. Coddling. “Is Dates as Data Just a Zombie? Breathing New Life into Radiocarbon Summaries by Assessing Local Landscape Taphonomy” 84<sup>th</sup> Annual Society for American Archaeology Meeting, Albuquerque, NM, April 2019
- 2019 **Daniel A. Contreras**. “Geospatial Methods for Assessing Landscape-Scale Human-Environment Interactions.” Invited presentation at the Muséum national d'Histoire naturelle, Paris, January 2019.
- 2019 **Daniel A. Contreras**. “Stages, Periods, and Radiocarbon: Chronology Matters in the Archaeology of the Central Andes.” Invited presentation at the University of Florida, January 2019.
- 2019 **Daniel A. Contreras**. “Stages, Periods, and Radiocarbon: <sup>14</sup>C Dating in the Archaeology of the Central Andes.” Presentation at the 59<sup>th</sup> Annual Meetings of the Institute of Andean Studies, Berkeley, CA, January 2019.
- 2018 Heather Walder, **Daniel A. Contreras**, Walker W. Good, Alexander Woods. “Phase III Investigations of Three Archaeological Sites at Stillwell Crossing, Fort McCoy, Wisconsin.” Invited presentation in the CRM Archaeology on Federal Lands: New Contributions and Unique Management Strategies Session at the 83<sup>rd</sup> Annual Society for American Archaeology Meeting, Washington, D.C., April 2018

- 2018 **Daniel A. Contreras.** "From Paleoclimate Variables to the Human Consequences of Environmental Change: Downscaling, Process-Based Agroecosystem Modeling, and Settlement Patterns in Holocene Provence." Invited presentation at the University of Utah, March 2018.
- 2017 **Daniel A. Contreras.** "From Paleoclimate Variables to the Human Consequences of Environmental Change: Downscaling, Process-Based Agroecosystem Modeling, and Settlement Patterns in Holocene Provence." Invited presentation at the University of Maryland, December 2017.
- 2017 **Daniel A. Contreras.** "From Paleoclimate Variables to Prehistoric Agriculture: Settlement Patterns, Human Environments, and Process-Based Agroecosystem Modeling in Holocene Provence." Invited presentation in the seminar *Modeling complex adaptive systems in Archaeology: Insights and feedbacks from the modeling of past socio-ecosystems*. CEPAM, Nice, May 2017.
- 2017 **Daniel A. Contreras.** "R as GIS: Raster and Vector Data Manipulation, Simple Spatial Analysis, and Plotting." Invited presentation in the *Using R for Archaeological Science* Forum at the 82<sup>nd</sup> Annual Society for American Archaeology Meeting, Vancouver, April 2017.
- 2017 **Daniel A. Contreras.** "Downscaling in Archaeology: From digital forest to probable trees." Invited presentation in the session *Archaeological Epistemology in the Digital Age* at the 82<sup>nd</sup> Annual Society for American Archaeology Meeting, Vancouver, April 2017.
- 2017 Feathers, James, Tristan Carter, **Daniel A. Contreras**, and Kathryn Campeau. "Luminescence Dating of a Palaeolithic Site in the Aegean." Poster presented at the 82<sup>nd</sup> Annual Society for American Archaeology Meeting, Vancouver, April 2017.
- 2017 **Daniel A. Contreras.** "Archaeology and Long-Term Sustainability: A Case Study in Modeling Holocene Provence." Invited talk in the Sustainability Series, University of South Dakota, March 2017.
- 2017 **Daniel A. Contreras.** "From Paleoclimate Variables to Prehistoric Agriculture: Settlement Patterns, Human Environments, and Process-Based Agroecosystem Modeling in Holocene Provence". Invited seminar at the Tour du Valat Institut de recherche pour la conservation des zones humides méditerranéennes, February 2017.
- 2016 **Daniel A. Contreras.** "From Paleoclimate Variables to Prehistoric Agriculture: Settlement Patterns, Human Environments, and Process-Based Agroecosystem Modeling in Holocene Provence". Invited talk in the *Capita Selecta Research Seminar*, Groningen Institute of Archaeology, December 2016.
- 2016 **Daniel A. Contreras.** "Archaeology, Climate Change, and Agent-Based Models: Necessary Ingredients and Viable Questions in a Case Study from Provence." Invited talk in the 7<sup>th</sup> Workshop on Complex Evolving System Approach in Economics: "On Agent-Based Modeling", Université Nice Sophia Antipolis, November 2016.
- 2016 **Daniel A. Contreras.** "What can archaeology contribute to modeling sustainability?" Invited presentation at *Modeling Challenges for Sustainability*, Research Institute For Humanity And Nature, Kyoto, September 2016.
- 2016 Katherine Grillo, Mary Prendergast, **Daniel A. Contreras**, Thomas Fitton, Agness Gidna, Steven Goldstein, Matthew Knisley, and Audax Mabulla. "New excavations at the Pastoral Neolithic site of Luxmanda (UVS40), Tanzania" Paper presented in the session *New perspectives on the origins and spread of food production in Africa* at the Society for Africanist Archaeology meetings, Toulouse, June 2016.
- 2016 **Daniel A. Contreras** "How Significant Were Past Climate Changes in Provence? Examining Paleoclimates at Landscape Scales Using GIS and Agroecosystem Modeling" Invited presentation at the *Nouvelles directions dans l'archéologie du paysage* workshop, IMéRA, Marseille, June 2016.
- 2016 **Daniel A. Contreras**, Alan Kirman, Alberte Bondeau, Joël Guiot, Eneko Hiriart, Loup Bernard, Nobuyuki Hanaki, Sylvie Thoron, and Romain Suarez. "Using Dynamic Socioecological System Modeling to Explore the Footprint of Prehistoric Agriculture in the western Mediterranean" Paper presented in the session *Indigenous populations-vegetation-climate relationship in the past: what can*



- this teach us about sustainable vegetation use in the present?* at *Anthropology, Weather, and Climate Change*, London, May 2016.
- 2016 **Daniel A Contreras**, Eneko Hiriart, Sander Van Der Leeuw, Alberte Bondeau, Alan Kirman, Joël Guiot, Loup Bernard, Romain Suarez. "Simulating Known Unknowns: Integrating GIS Modeling Modeling of Settlement Patterns and Process-Based Agroecosystem Modeling of Past Agricultural Productivity in Provence (France)" Paper presented in the SimulPast Workshop *How wrong is my model? Empirical Challenges in Archaeology, History, and Anthropology*, Barcelona, May 2016.
- 2016 **Daniel A. Contreras**, Alberte Bondeau, Joël Guiot, Alan Kirman, Eneko Hiriart, Loup Bernard, Marianela Fader, and Romain Suarez. "From Paleoclimate Variables to Prehistoric Agriculture: Using a Process-Based Agroecosystem Model to Simulate Prehistoric Agricultural Productivity." Paper presented in the *Human adaptation to landscape changes, landscape resilience to human impact and integrating palaeoenvironmental and archaeological records* session at the *European Geophysical Union*, Vienna, April 2016.
- 2016 **Daniel A. Contreras**. "Correlation is Not Enough: Untangling Past Human-Environment Interactions from Formative Period Peru to the Neolithic Near East." Invited talk in the University of Minnesota Anthropology Department, Minneapolis, March 2016.
- 2015 **Daniel A. Contreras**. "Dating Matters at Chavín de Huántar: Bayesian Modeling of <sup>14</sup>C Dates and Revisiting the Central Andean Early Horizon." Invited presentation in L'Unité Mixte de Recherche Archéologie des Ameriques, Maison Archéologie et Ethnologie, Paris, October 2015.
- 2015 A. Kirman, A. Bondeau, **D. Contreras**, J. Guiot, N. Hanaki, S. Thoron, L. Bernard, E. Hiriart. "Lessons from the Past: Modeling past human adaptation to climatic change in the Mediterranean Basin - AMENOPHYS (an OTMed Project)." Paper presented at *Our Common Future Under Climate Change - The Mediterranean Basin in a warmer and drier world: challenges and opportunities*. Paris, July 2015.
- 2015 Carter T., **Contreras D.**, Freund K. "The Nature and Use of Giali Obsidian: New Geo-Archaeological and Characterization Studies". Paper presented at *GeoMedIslands - Multidisciplinary approaches to palaeoenvironmental changes and the history of the human occupation in the Mediterranean islands since the Last Glacial Maximum*, Cargèse, France, July 2015
- 2015 **Daniel A. Contreras**. "Reflections on digital data acquisition and analysis at Chavín de Huántar, Peru." Paper presented in the invited symposium *Ancient Architecture and Spatial Technology: A Global Perspective* at the *80<sup>th</sup> Annual Society for American Archaeology Meeting*, San Francisco, CA, April 2015.
- 2015 Doyle, Sean, **Daniel A. Contreras**, and Tristan Carter. "Archaeological Visibility at Stélida, Naxos: Identifying Activity Hubs at a Palaeolithic Chert Quarry in the Cyclades." Paper presented in the invited symposium *Chert Sourcing Case Studies Part II: Landscape Distribution and Prehistoric Societies* at the *80<sup>th</sup> Annual Society for American Archaeology Meeting*, San Francisco, CA, April 2015.
- 2015 Sayre, Matt, **Daniel A. Contreras**, and Vincent Robin. "Lessons from the Tello Obelisk- plant use at Chavín de Huántar, Peru" Paper presented in the invited symposium '*Siempre a la Vanguardia*': *A Tribute to Dolores Piperno Contributions to the Origins and Spread of Agriculture* at the *80<sup>th</sup> Annual Society for American Archaeology Meeting*, San Francisco, CA, April 2015.
- 2015 **Daniel A. Contreras**. "A history of digital data acquisition and analysis at Chavín de Huántar, Peru." Poster presented at the *Computer Applications in Archaeology Annual Conference*, Siena, Italy, April 2015.
- 2014 **Daniel A. Contreras**. "Chronology Matters at Chavín de Huántar." Invited presentation at the University of Wisconsin - Madison, October 2014.
- 2014 Tristan Carter, **Daniel A. Contreras**, Sean Doyle, Daniča Mihailovic, Theodora Moutsiou and Nikos Skarpelis. "Neanderthals on Naxos: New Evidence for Early Hominins in the Aegean Basin." Paper presented at the *European Association of Archaeology Meetings*, Istanbul, September 2014.

- 2014 **Daniel A. Contreras**. "Measuring Resilience and Sustainability: Archaeology of the Human Consequences of Environmental Change at Teotihuacan, Mexico." Invited presentation at the University of York, June 2014.
- 2014 **Daniel A. Contreras** and Cheryl Makarewicz. "How Green Was my Valley? Reconciling Regional and Local Paleoenvironmental Signals at PPNA el-Hemmeh, Jordan." Paper presented in the invited symposium *Correlation Is Not Enough: Building Better Arguments in the Archaeology of Human-Environment Interactions* at the 79th Annual Society for American Archaeology Meeting, Austin, TX, April 2014.
- 2014 **Daniel A. Contreras**. "Climate and Causation, Landscape and Lifeways: the Neolithic Near East, Formative Peru, and Reclaiming Environment for Anthropological Archaeology." Invited talk at the Université de Montréal, March 2014.
- 2014 **Daniel A. Contreras**. "Chavín Chronology: Do Bayesian Goggles Bring a Chavín Horizon into Focus?" Invited paper presented at the symposium *Chavín: Toward a New Synthesis*, Stanford University, Stanford, CA, January 2014.
- 2013 **Daniel A. Contreras**. "Reconciling Sequences and Peering at the Horizon: Bayesian Modelling of Excavation, Architectural, and Ceramic Chronologies at Chavín de Huántar." Paper presented at the *South American Archaeology Seminar*, University College London, December 2013.
- 2013 **Daniel A. Contreras**. "Vinculando las cronologías arquitectónicas, cerámicas, y estratigráficas en Chavín de Huántar: Implicancias del modelaje Bayesiano de los fechados <sup>14</sup>C" Invited paper presented at the *Símpoio Internacional: Nuevos horizontes de los estudios de Chavín*, National Museum of Ethnology, Osaka, Japan, November 2013.
- 2013 **Daniel A. Contreras**, John W. Rick, and Silvia R. Kembel. "Reconciling Sequences: Using Bayesian Modeling to Link Excavation, Architectural, and Ceramic Chronologies at Chavín de Huántar, Peru" Paper presented at the International Symposium *Absolute Chronology in the Central Andes*, Warsaw, Poland, September 2013.
- 2013 **Daniel A. Contreras**, Vincent Robin, Regina Gonda, Marta del Corso, Rachel Hodara, and Cheryl Makarewicz. "A Multiproxy Approach to Past Floodplain Usage in the Middle Wadi al-Hasa, Jordan." Poster presented at the *Association for Environmental Archaeology Conference*, Kiel, Germany, September 2013.
- 2013 John Meadows and **Daniel A. Contreras**. "From demography to dates and back again: is it possible to uncover meaningful population trends in aggregated scientific dating results?" Paper presented in the invited session *Testing Time: new approaches to archaeological chronologies, radiocarbon dating, and 14C data*, at the 19th Annual Meeting of the European Association of Archaeologists, Plzen, Czech Republic, September 2013.
- 2013 **Daniel A. Contreras**. "The Human Consequences of Environmental Change: Quantifying past Ecosystem Services at Teotihuacan, Mexico". Paper presented at the invited symposium *New Perspectives on Human Development in Landscapes*, CAU Kiel, Germany, August 2013.
- 2013 **Daniel A. Contreras** and Cheryl Makarewicz. "Modeling Arable Landscapes of the Early Holocene: Emergent Cultivation at el-Hemmeh." Paper presented in the invited session *Between Site and Synthesis: Missing Landscapes of the Southwest Asian Early Neolithic* at the *Socio-Environmental Dynamics over the Last 12,000 Years* International Open Workshop, Kiel, Germany, April 2013.
- 2013 **Daniel A. Contreras**. "The Medium is the Message: Reading an Anthropogenic Landscape: Setting at Chavín de Huántar, Peru." Paper presented at the invited symposium *Ritual Innovation, Material Culture, and Environment in Formative Chavín de Huántar, Peru* at the 78th Annual Society for American Archaeology Meeting, Honolulu, HI, April 2013.
- 2013 Tom Kimber, **Daniel A. Contreras**, Nicholas Tripcevich, and Yuri Caverro. "Quantifying Quarrying: Investigations at the Source of Quispisisa-type obsidian, Ayacucho, Peru." Paper presented at the 78th Annual Society for American Archaeology Meeting, Honolulu, HI, April 2013.
- 2013 Michelle Lau, **Daniel A. Contreras**, Nicholas Tripcevich, and Yuri Caverro. "What to make out of so much obsidian?" Paper presented at the 78th Annual Society for American Archaeology Meeting, Honolulu, HI, April 2013.

- 2013 Nicholas Tripcevich, **Daniel A. Contreras**, and Yuri Caverro. "Obsidian miners' structures and workshops in highland Peru: Results from research at the Quispisisa obsidian source." Presentation for the Archaeological Research Facility Brownbag Series, U.C. Berkeley, March 2013.

### **Media Coverage**

- 2011 Andrés Bermúdez Liévano. "La nueva Mirada" *Computer Hoy* 329:33-34.  
2011 Erin Wayman. "GIS: A Rising Tool in the Geoarchaeologist's Toolbox" *Earth* January 2011: 26-32.  
2010 Heather Pringle. "Google Earth Shows Clandestine Worlds" *Science* Aug. 2010: 1008-1009.  
2009 Stanford University. "Buying, Selling, Owning the Past" *Stanford Report* Jan. 2009: 9-12.

### **Languages**

Native speaker of English. Written and oral fluency in Spanish. Competence in French and basic competence in German.

### **Professional Memberships**

Society for American Archaeology  
Institute of Andean Studies  
International Association of Obsidian Studies  
Register of Professional Archaeologists  
Associate Member, Graduate School of Human Development in Landscapes, CAU Kiel