

Erin E. Ray
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EDUCATION

Ph.D., Anthropology; *In progress*
University of New Mexico

M.A., World Cultures and History; August 2017
University of California, Merced

B.A., Anthropology (Honors); May 2012
University of California, Merced

A.A., Liberal Arts/Arts and Humanities; December 2009
Cerro Coso Community College, Ridgecrest, California

HONORS/AFFILIATIONS

Society for American Archaeology, 2013-present
Society for Archaeological Sciences, 2014-present
Geological Society of America, 2014 - present
Sigma Xi, 2014 - present

RESEARCH INTERESTS

Geochemical applications in archaeology, archaeometrics, stable isotopes, radiocarbon, Mesoamerican archaeology, humans and the environment, patterns of cave use and ritual, mapping, paleoecology, and GIS.

RELATED EXPERIENCE

Teaching Experience

Teaching Assistant, Archaeology of Religion
University of California, Merced Fall 2012

Teaching Assistant, Ceramic Analysis
University of California, Merced Spring 2013

Teaching Assistant, History of United States
University of California, Merced Fall 2013

Teaching Assistant, Introduction to Sociology
University of California, Merced Spring 2014

Teaching Assistant, Lithic Artifact Analysis
University of California, Merced Fall 2014

Teaching Assistant, Anthropological Archaeology
University of California, Merced Spring 2015

Teaching Assistant, Introduction to Cartography and GIS

University of California, Merced Fall 2015

Graduate Assistant, Anthropology 101
University of New Mexico, Fall 2016

Graduate Assistant, Anthropology 101
University of New Mexico, Spring 2017

Graduate Assistant, Anthropology 101
University of New Mexico, Fall 2017

Graduate Assistant, Anthropology 101
University of New Mexico, Spring 2018

Field Work

Field Director, Las Cuevas Archaeological Reconnaissance
Las Cuevas Research Station, Cayo District, Belize May-June 2018

Survey Technician, Belize Cave Research Project
Belize June – August 2012, June –August 2013, June-August 2014, May-August 2015, June 2016

- Survey caves using Sokkia Total Station
- Assisted mapping crew with data collection
- Ceramic analysis

Survey Supervisor, Las Cuevas Archaeological Reconnaissance
Las Cuevas Research Station, Cayo District, Belize June 2011 May- June 2012-2014

- Initial survey of site core using Sokkia Total station
- Using ArcGIS 10, built a site map

General Excavation, Las Cuevas Archaeological Reconnaissance
Las Cuevas Research Station, Cayo District, Belize June 2011

- Washed and prepared ceramics for analysis
- General excavation techniques

Volunteer, Curation Facility
Naval Air Weapons Station, China Lake, CA

- Filed lab and site reports
- Introduction to GIS and mapping

Lab Work

Environmental Archaeology Lab, Center for Stable Isotopes
University of New Mexico – August 2016- Present

- Radiocarbon sample preparation
- Stable isotope sample preparation

Lawrence Livermore National Labs, Center for Accelerated Mass Spectrometry
Livermore, CA – August 2012-Present

- Learned radiocarbon preparation from unprocessed sample through graphitization
- Assisted in lab preparation work

Soil Biogeochemistry Lab, University of California, Merced
Merced, CA – August 2012 – August 2015

- Radiocarbon preparation in clean lab

CONFERENCE PRESENTATIONS

- 2018 83rd Society for American Archaeology Conference: "Investigations of Plastered Constructions at Las Cuevas, Belize" E. Ray, H. Moyes
- 2018 83rd Society for American Archaeology Conference: "The Space of Liminality: Between Ritual and Theater⁴ in Late Classic Ancient Maya Cave Rites" H. Moyes, K. Hansen, E. Ray
- 2017 15th Annual Meeting of the Belize Archaeology and Anthropology Symposium "Plastered: Cave Constructions at Las Cuevas" E. Ray, H. Moyes, L. Howie
- 2017 82nd Society for American Archaeology Conference: "The Archaeologists Role in Looting: Commodity Fetishism and the Tragedy of the Commons" E. Ray, H. Moyes
- 2016 14th Annual Meeting of the Belize Archaeology and Anthropology Symposium "The Chronology of Ancient Maya Cave Use in Belize" H. Moyes, L. Kosakowsky, E. Ray, J. Awe
- 2016 81st Society for American Archaeology Conference: "Comparative Geochemical Analyses of Lime-Plaster from a Cave Site in Belize, C.A." E. Ray
- 2015 48th Annual Chacmool Archaeological Conference: "All in Good Time: Shifting Methodologies toward a More Sustainable Archaeology" E. Ray, H. Moyes
- 2015 80th Society for American Archaeology Conference: "Geochemical Analyses of Construction Materials in the Cave at Las Cuevas, Belize: An Intrasite Analysis" E. Ray
- 2015 5th Annual Geospatial Summit – Shaping the Growth of GIS Innovation: "Rituals in Space: Using GIS to Examine Ancient Maya Ritual Practices at the Site of Las Cuevas, Belize" E. Ray
- 2014 47th Annual Chacmool Archaeological Conference: "Ephemeral Rites: Understanding Ancient Maya Cave Ritual Using Geochemical Signatures from Platform Surfaces at Las Cuevas" E. Ray, H. Moyes
- 2014 12th Annual Meeting of the Belize Archaeology and Anthropology Symposium: "The Cave at Las Cuevas" H. Moyes, B. Voorhies, L. Kosakowsky, M. Robinson, M. Arksey, E. Ray, S. Hernandez
- 2014 79th Society for American Archaeology Conference: "Ritual Use at Las Cuevas, Belize: Preliminary Results of Geochemical Analyses" E. Ray, H. Neff, H. Moyes
- 2014 University of California, Merced 2nd Annual World Cultures Graduate Student Conference: "Offerings to the Underworld: Bloodletting Iconography of the Ancient Maya" E. Ray
- 2013 3rd Annual Geospatial Summit- GIS Frontiers of Knowledge: "Las Cuevas Archaeological Reconnaissance: Mapping of Las Cuevas and Monkey Tail" E. Ray, P. Carvajal, N. Bourgeois, H. Moyes

PUBLICATIONS

- 2018** Plastered: Cave Constructions at Las Cuevas. *Research Reports in Belizean Archaeology*. Belmopan, Belize, Institute of Archaeology, NICH. E. Ray, H. Moyes, L. Howie.
- 2017** *Geochemical Analysis of Construction Materials from Las Cuevas, Belize*, M.A. thesis, Department of World Cultures and History, University of California, Merced.
- 2017** The Chronology of Ancient Maya Cave Use in Belize. *Research Reports in Belizean Archaeology*. Belmopan, Belize: Institute of Archaeology, NICH. H. Moyes, L. Kosakowsky, E. Ray, J. Awe
- 2015** Ephemeral Rites: Understanding Ancient Maya Cave Ritual using Geochemical Signatures from Platform Surfaces at Las Cuevas. Papers of the 47th Annual Chacmool Archaeological Conference, Breaking Barriers, University of Calgary, Alberta, Canada. E. Ray, H. Moyes
- 2015** Dreams at Las Cuevas: A Location of High Devotional Expression of the Late Classic Maya. *Research Reports in Belizean Archaeology* 12:239-250. Belmopan,

Belize: Institute of Archaeology, NICH. H. Moyes, M. Robinson, B. Voorhies, L. Kosakowsky, M. Arksey, E. Ray, S. Hernandez

FUNDING

- 2015** USAP Summer Support Award, University of California, Merced
- 2014** USAP Summer Support Award, University of California, Merced
- 2013** USAP Summer Support Award, University of California, Merced