

# Lana S. Martin

## Curriculum Vitae

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### Education

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- 2010 to 2015 University of California, Los Angeles  
Ph.D., Anthropology, subfield: Archaeology  
Dissertation: Forests, Gardens, and Fisheries in an Ancient Chiefdom: Paleoethnobotany and Zooarchaeology at Sitio Drago, Bocas del Toro, Panama
- 2008 to 2010 University of California, Los Angeles  
M.A., Anthropology, subfield: Archaeology  
Master's thesis: Reconstructing Paleoenvironmental Instability and Plant Resource Availability on Santa Cruz Island using Macrobotanical Analysis
- 2003 to 2007 The University of Texas at Austin  
B.A., Anthropology, Phi Beta Kappa with high honors  
Senior thesis: Variability in Hunter-Gatherer Mortuary Practices: An Analysis of the Crestmont Site (41WH39) Burial Inclusions

### Employment

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- 2016 to present University of California, Los Angeles  
Department of Computer Science  
Staff Research Associate, ZarLab  
zarlab.cs.ucla.edu

### Teaching Experience

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#### Santa Monica College

- Spring 2017 Lecturer for Methods of Archaeology  
Winter 2016 Guest Lecturer for World Archaeology

#### University of California, Los Angeles

- Summer 2017 Lecturer for Principles of Archaeology  
Summer 2016 Lecturer for Principles of Archaeology  
Spring 2016 Lecturer for Archaeology of Los Angeles  
Summer 2015 Lecturer for Introduction to Archaeology  
Fall 2014 Reader for Anthropology of Mental Illness  
Summer 2014 Reader for Field Methods in Cultural Anthropology  
Summer 2014 Teaching Assistant for Sitio Drago Field School, Bocas del Toro, Panamá  
Spring 2014 Teaching Associate for Archaeology: Introduction  
Winter 2014 Teaching Associate for Principles of Archaeology  
Fall 2013 Teaching Associate for Archaeology: Introduction  
Summer 2013 Reader for Archaeology: Introduction  
Spring 2013 Reader for Ancient Civilizations of Andean South America  
Winter 2013 Reader for Archaeology of North America  
Fall 2012 Reader for Principles of Archaeology  
Summer 2012 Teaching Assistant for Sitio Drago Field School, Bocas del Toro, Panamá  
Spring 2012 Reader for Archaeology of North America  
Spring 2012 Teaching Assistant for Archaeology: Introduction  
Winter 2012 Teaching Assistant for Archaeology: Introduction  
Fall 2011 Teaching Assistant for Archaeology: Introduction  
Summer 2010 Teaching Assistant for Sitio Drago Field School, Bocas del Toro, Panamá

Spring 2010	Reader for Archaeology of North America
Winter 2010	Reader for Southwestern Archaeology
Fall 2009	Reader for Archaeology of Warfare
Spring 2009	Reader for Archaeology of North America

### Curriculum Development Experience

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2016	Consultant for K-4 Social Science Curriculum Development St. Michael's Academy, Sacramento, CA
2016	Developed new upper-division Anthropology course: Archaeology of Los Angeles University of California, Los Angeles
2012 to 2013	Graduate Student Researcher for UCLA OID Instructional Improvement Grant 2012 – 2013: Improving Data Analysis Skills of Undergraduate Archaeology Students

### Grants

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2014	UCLA Latin American Institute Summer Research Grant
2014	UCLA Anthropology Clement Meighan Research Grant
2014, '11	UCLA Cotsen Institute of Archaeology Steinmetz Travel Grant
2014, '13, '12, '11, '10	UCLA Anthropology Conference Travel Grant

### Awards and Fellowships

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2014 to 2015	UCLA Graduate Division Dissertation Year Fellowship
2014	Nominated, UCLA Charles E. & Sue K. Young Graduate Fellowship Award
2012 to 2013	National Science Foundation Graduate Research Fellowship Program
2009 to 2011	
2009	UCLA Graduate Summer Research Mentorship
2008 to 2009	UCLA Department of Anthropology Academic Fellowship
2007	Phi Beta Kappa, Texas Alpha Chapter (inducted)
2006 to 2007	UT Austin Woods Endowed Presidential Scholarship
2006 to 2007	UT Austin Joe B. Frantz Memorial Scholarship
2005 to 2007	UT Austin Distinguished College Scholar
2006	UT Austin Hibbs Departmental Essay Scholarship
2005	Lambda Alpha, Texas Zeta Chapter (inducted)
2005	UT Austin Undergraduate Academic Scholarship

### Papers

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2017	Mangul, Serghei, and Lana S. Martin, Alexander Hoffmann, Matteo Pellegrini, and Eleazar Eskin. Addressing the digital divide in contemporary biology: Lessons from teaching UNIX. <i>bioRxiv preprint</i> 122424.
2017	Mangul, Serghei, and Sarah Van Driesche, Lana S. Martin, Kelsey C. Martin, and Eleazar Eskin. UMI-Reducer: Collapsing duplicate sequencing reads via Unique Molecular Identifiers. <i>bioRxiv preprint</i> 103267. doi: 10.1101/103267.
2016	Martin, Lana S., and Eleazar Eskin. Review: Population Structure in Genetic Studies: Confounding Factors and Mixed Models. <i>bioRxiv preprint</i> 092106. doi: 10.1101/092106.
2016	VanDerwarker, Amber M., Dana N. Bardolph, Kristin M. Hoppa, Heather B. Thakar, Lana S. Martin, Allison Jaqua, Matthew E. Biwer, and Kristina M. Gill. New World Paleoethnobotany in the New Millennium (2000–2013). <i>Journal of Archaeological Research</i> 24(2):125-177. doi: 10.1007/s10814-015-9089-9.

- 2014 Lesure, Richard G., Lana S. Martin, Katelyn J. Bishop, Brittany Jackson, and C. Myles Chykerda. The Neolithic Demographic Transition in Mesoamerica. *Current Anthropology* 55(5):654-664. doi: 10.1086/678325.
- 2014 Arnold, Jeanne E., and Lana S. Martin. Botanical Evidence of Paleodietary and Environmental Change: Drought on the Channel Islands, California. *American Antiquity* 79(2):227-248. doi:10.7183/0002-7316.79.2.227.

### Other Writing

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- 2016 to present Regular contributor to *ZarLab* blog, [zarlab.cs.ucla.edu](http://zarlab.cs.ucla.edu)
- 2015 to 2016 Writing Consultant for the Department of Marketing, Prostate Cancer Foundation
- 2014 Author of "Pastoralism in the Bronze & Iron Age," [dissertationreviews.org/archives/6971](http://dissertationreviews.org/archives/6971)
- 2011 Contributor to *Backdirt*, a publication of the UCLA Cotsen Institute of Archaeology

### Conference Presentations

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- 4/16/2015 Martin, Lana S. Farming and Foraging in Late Ceramic Period Society at Sitio Drago, Western Caribbean Panama. Invited paper presented in the symposium, "Trade, exchange, production and consumption in pre-Columbian and colonial Lower Central America" at the Society for American Archaeology Annual Meeting in San Francisco, CA
- 4/25/2014 Martin, Lana S., Richard G. Lesure, and Katelyn Bishop. The Neolithic Demographic Transition in Mesoamerica. Poster presented at the Society for American Archaeology Annual Meeting in Austin, TX
- 4/6/2013 Martin, Lana S. Modeling Political Organization and Food Production in Middle-Range Societies: A Case Study from Panamá. Paper presented at the Society for American Archaeology Annual Meeting in Honolulu, HI
- 4/19/2012 Martin, Lana S. Reconstructing Subsistence Economy in Ancient Panamá: Testing Hypotheses of Plant Food Use at Sitio Drago. Poster presented at the Society for American Archaeology Annual Meeting in Memphis, TN
- 4/1/2011 Arnold, Jeanne E., Eric C. Fries, Lana S. Martin, and Stephanie A. Salwen. From Paleoclimate to Ancient Production Systems: Current Channel Islands Research. Paper presented by L. Martin at the Society for American Archaeology Annual Meeting in Sacramento, CA
- 2/12/2011 Martin, Lana S. Reconstructing Paleoenvironmental Instability and Plant Resource Availability on Santa Cruz Island: Adaptive Responses to Environmental Change by the Channel Island Chumash. Paper presented at the Graduate Student Conference in the Cotsen Institute of Archaeology at UCLA
- 4/17/2010 Martin, Lana S. Reconstructing Paleoenvironmental Instability and Plant Resource Availability at Santa Cruz Island using Macrobotanical Analysis. Poster presented at the Society for American Archaeology Annual Meeting in St. Louis, MO
- 3/20/2010 Martin, Lana S. Preliminary Interpretations of Plant Resource Availability at Santa Cruz Island Using Macrobotanical Analysis. Paper presented at the Society for California Archaeology Annual Meeting in Riverside, CA
- 4/16/2007 Martin, Lana S. Hunter-Gatherer Mortuary Practices and Variability: An Analysis of the Crestmont Site (41WH39) Burial Inclusions. Poster presented at the Society for American Archaeology Annual Meeting in Austin, TX
- 10/28/2005 Blesch, Robin, Leslie Bush, Lana Martin, Stewart McCauley, Nathan Sison, Dylan Smith, Heather Smith, and Carly Whelan. Flotation Results from the TAS 2005 Field School, Lamar County, Texas. Co-authored poster presented at the Texas Archeological Society Annual Meeting in Austin, TX

## Archaeological Field and Laboratory Experience

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2010 to 2015	Proyecto Arqueológico Sitio Drago, Bocas del Toro, Panamá Participated in excavation, pedestrian and geophysical survey, and archaeobotanical sampling of a village site (ca. AD 700 to 1500) located in Western Caribbean Panamá.. Supervised by Dr. Thomas Wake.
2008 to 2015	Santa Cruz Island Archaeological Project, Santa Barbara County, CA Analyzed macrobotanical materials and sorted shell midden, microlithic materials, and shell beads. Participated in pedestrian survey of Laguna Canyon, Santa Cruz Island. Supervised by Prof. Jeanne Arnold
2008	Environmental Consulting, SWCA Environmental Consultants, Austin, TX Coordinated and performed pedestrian surveys, laboratory projects, artifact analysis and curation, and preparation of background reviews, cultural constraints analyses, and project reports.
2008	41BX1239 (Mammoth Site) Mammoth Bone Stabilization Project Conducted stabilization, curation, and preliminary analysis of <i>Mammuthus</i> remains recovered from a site in Bexar County, as well as preparation of project report for SWCA Environmental Consultants, Austin, Texas.
2008	41BX1396 Curation, SWCA Environmental Consultants, Austin, TX Conducted lithic analysis and prepared curation of artifacts recovered from the Brackenridge Golf Course site in San Antonio, Texas.
2007 to 2008	Environmental Consulting, Geo-Martin, Inc., Plano, TX Participated in a data recovery of Archaic open campsite near Lampasas (41BT427 Phase II Testing Project), Excavation of Late Archaic to Late Prehistoric open campsite along Rowlett Creek near Garland (41DL203 Phase II Testing Project), and 170-acre field survey and trenching of inland coastal property near Victoria (Port of Victoria Barge Canal Survey) in Texas.
2007	Environmental Consulting, PBS&J, Austin, TX Participated in an extensive 8,000-acre field survey of properties near Fairfield (Turlington Field Survey) and data recovery with optically stimulated luminescence (OSL) sampling of Late Archaic burned rock midden along Plum Creek near Luling, (41CW104 Phase III Mitigation) in Texas.
2006 to 2007	41VT141 (McNeill Ranch Site) Investigation Assisted in the excavation, mapping, and analysis of artifacts recovered from a multi-occupation Late Paleoindian to Archaic site located on the lower Guadalupe floodplain in Texas. Supervised by Dr. Michael Bever.
2005	41LR297 (Stallings Ranch Site) Investigation Participated in excavation of a Woodland period Fourche Maline (agricultural) village in northeast Texas. Processed flotation samples and analyzed macrobotanical remains. Supervised by Dr. Leslie Bush.

## Other Contributions

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Spring 2015	Volunteer for archaeology demonstration at K-5 Archaeology Module of Westside Neighborhood School in Los Angeles, CA
Winter 2014	Guest lecture for Anthro 110P: "Environmental Archaeology" Guest lecture for Anthro 111: "New Archaeology & Processual Archaeology"
Spring 2013	Coordinator for the Cotsen Institute Friday Seminar Series, "Advances in Archaeological Field Methods II"

Winter 2013	Speaker for UCLA Undergraduate Anthropological Association: "Using Paleoethnobotany to Reconstruct Farming and Foraging in the Neotropics"
Fall 2013, '12, '11, '10 2012 to 2013	Panelist for Department of Anthropology Incoming Graduate Students orientation event Coordinator for the UCLA Cotsen Institute of Archaeology Graduate Student Archaeology Conference, "Scalar Inquiries in Archaeology"
11/7/2012	Volunteer for the 2012-2013 Pacific Elementary School Science Night interactive exhibit on stone tools in Manhattan Beach, CA
Spring 2012, '11, '10, '09	Volunteer for the UCLA Cotsen Institute of Archaeology Open House Event demonstration of methods for recovering plant fossils from soil
Fall 2012, '11, '10	Moderator/Panelist for the UCLA Graduate Student Orientation Event, "Keys to Success: Doctoral Degrees in the Social Sciences"
Winter 2011	Coordinator for the UCLA Department of Anthropology Graduate Admissions Recruitment Event
2010 to 2011	Graduate Student Representative on the UCLA Department of Anthropology Graduate Admissions Committee
Fall 2010	Coordinator for the UCLA Cotsen Institute of Archaeology Friday Seminar Series, "Food For Thought: Archaeology of Diet and Subsistence"
Spring 2009	Speaker for UCLA Undergraduate Anthropological Association: "Post-Graduate Jobs in Archaeology"