

ICARL PHILIPP LIPO

Associate Dean for Research and Programs, Harpur College of Arts and Sciences
Professor, Department of Anthropology
Director, Environmental Studies Program
Binghamton University
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23 June 2021

EDUCATION

- 2000 Ph.D., Department of Anthropology, University of Washington, Seattle
Thesis: *Science, Style, and the Study of Community Structure: An Example from the Central Mississippi River Valley*.
Committee: Robert C. Dunnell (chair), Robert J. Wenke, James K. Feathers, T. L. Hunt (U. Hawai'i)
- 1989 M.A., Department of Anthropology, University of Wisconsin, Madison
Advisor: J. Mark Kenoyer
- 1987 B.S. with Distinction, Department of Anthropology, University of Wisconsin, Madison

POSITIONS

Associate Dean	2017 to present	Harpur College of Arts and Sciences, Binghamton University
Director	2015 to 2020	Environmental Studies Program, Binghamton University
Professor	2015 to present	Department of Anthropology Binghamton University
Professor	2011 to 2015	California State University Long Beach, Department of Anthropology
Associate Professor	2006 to 2011	California State University Long Beach, Department of Anthropology
Assistant Professor	2002 to 2006	California State University Long Beach, Department of Anthropology
Research Associate	2005 to 2015	Cotsen Institute of Archaeology, University of California, Los Angeles.
Research Scientist	2003 to 2015	IIRMES – Institute for Integrated Research on Materials, Environments and Society, California State University Long Beach. (http://iirmes.org)
Co-Founder	2003 to 2015	PISCES, Pinpoint Institute for Scientific Cultural Evolution Studies.
Associate Editor	2007 to 2014	<i>Geoarchaeology</i> .
Associate Editor	2013 to Present	<i>PeerJ</i>

ACADEMIC AWARDS AND HONORS

- 2010 Society for American Archaeology Book Award, Public Audience Award. *The Statues That Walked: Unraveling the Mystery of Easter Island*. (with T.L. Hunt),

- 77th Annual Meeting of the Society for American Archaeology, Memphis, TN
- 2009/2010 CSULB University Distinguished Faculty in Research, Scholarly and Creative Activities. California State University Long Beach.
- 2005 2004/2005 Outstanding Faculty Member, Department of Anthropology, College of Liberal Arts, California State Long Beach.
- 2003 Phi Beta Delta: Honor Society for International Scholars, California State University Long Beach.
- 2003 2002/2003, Outstanding Faculty Member, Department of Anthropology, College of Liberal Arts, California State Long Beach.

TEACHING ACTIVITIES

Fields of Special Competence

- Evolutionary theory as applied to the study of human cultural variability
- Evolution of ceramic technology
- Human settlement and subsistence systems
- Spatial analyses
- 3D visualization and mapping of data, landscapes and artifacts
- Geospatial techniques
- Remote sensing
- Geographic Information Systems
- Cultural heritage management
- Database development and management
- Colonization of Eastern Polynesia
- Archaeological method and theory
- The history of anthropology and archaeology as a discipline
- Philosophy of science
- Prehistoric systematics and unit construction
- Chronometric techniques in archaeology
- Artifact engineering and materials science studies
- Prehistory of North America
- Prehistory of the Pacific
- The archaeology of Easter Island
- Quantitative methods and simulation in social sciences
- Computer applications and development

Educational Programs

- 2015-2020: Director, Environmental Studies Program (BA/BS), Binghamton University.
- 2016-2018: Co-Director, Masters Program in Sustainable Communities (MA/MS), Binghamton University.
- 2004-2008: Director, Masters Program in Archaeological Science (MA), California State University Long Beach

Courses Developed and Taught

My teaching experience covers a broad array of topics integral to an Anthropology and Environmental Studies curriculum at the undergraduate and graduate levels. These topics include areas of sustainability, basic earth science, environmental science, environmental impacts, prehistory, analytic methods in the field and laboratory, theory, and the history of archaeology as a science.

August 2015 to Present Binghamton University, Anthropology and the Environmental Studies Program

ANTH 111: Introduction to Anthropology
ENVI 201: Humans and the Physical Environment
ENVI 415: Environmental Planning
ANTH 480U: Changing Perspectives on Rapa Nui Prehistory
ANTH 551: Archaeological Research Strategies
ANTH 475/583U: Archaeological Lab Methods
ANTH 504: Methods in Cultural Evolution

August 2002 to 2015 California State University at Long Beach, Department of Anthropology

ANTH 140: Introduction to Archaeology
ANTH 347: The Archaeology of North America
ANTH 311I: The Human Adventure
ANTH 313: World Prehistory
ANTH 450: Archaeological Field School
ANTH 401: Foundations of Anthropology
ANTH 449: North American Archaeology
ANTH 450: Archaeological Field School
ANTH 451/551: Archaeological Artifact Analyses
ANTH 455/555: Archaeological Method and Theory I: Formal Theory
ANTH 456/556: Archaeological Method and Theory II: Explanatory Theory
ANTH 453/553: Archaeological Field Research Design
ANTH 471/571: The Archaeology of Eastern North America
ANTH 473: The Archaeology of California
ANTH 487: Cultural Resource Management
ANTH 561: Basic Computer Applications in Anthropology
UNIV 301I: Science, Myths and the Science of Origins
GEOG 495: Field Experiences in Geospatial Techniques
CSULB Archaeological Field School, Easter Island, Chile
3-Day Course in Techniques in Near-Surface Geophysics
3-Day Course in Advanced Techniques in Near-Surface Geophysics
ES&P 480: Environmental Science and Policy Capstone

October 1997 to University of Washington; Department of Anthropology
August 1998 Instructor. Archaeology 299/499: Archaeological Laboratory Techniques.
June 1997 to University of Washington; Department of Anthropology
August 1997 Instructor. Archaeology 105: World Prehistory.

Advisement and Student Mentorship

Bachelors and Masters Degree Students

Ian Frasier-Shapiro, M.A., 2007. PhD in Anthropology, University of Alberta, 2012. Thesis committee member.

Kristin Safi, M.A. 2008. Phd Program, Washington State University. Thesis advisor.

Veronica Harper, M.A., 2008. Fulltime salaried position at JFNew, Ecological Services, Indianapolis Indiana. Thesis advisor.

Katie Eskew, M.A. 2008. Fulltime salaried position at USDA/NRSC. Thesis advisor.

Jimmy Daniels, M.A., 2009. Currently attending University of San Diego Ph.D. program.
Thesis advisor.
Andrea Bardsley, M.A., 2009. Fulltime salaried position at Cogstone Resource Management.
Thesis advisor.
Maureen Lynch, M.A., 2009. Fulltime salaried position at SRI, Inc. Thesis advisor.
Clarus Backes, M.A., 2009. Fulltime salaried position at Sapphos Resource Management,
Inc. Thesis committee member.
Ileana Bradford, M.A., 2009. Fulltime salaried position at local GIS firm..
Roberta Thomas, M.A., 2009. Fulltime salaried position at Sapphos Resource Management,
Inc., Pasadena, CA. Thesis advisor.
Gena Granger, M.A. 2010. Fulltime salaried position, LSA Associates. Thesis committee
member.
Jessica Jaynes MA, Geography 2011. GIS professional, Thesis committee
Zoe Schumacher, Geography MA 2011, GIS professional Thesis committee, Port of Long
Beach, GIS Professional
Jason Miller, CSULB Anthropology MA Student, Thesis advisor
Jacob Kovalchik, Anthropology MA 2013, Thesis Advisor, US Forest Service
Sean Hixon, University of Oregon, 2014, B.A. student, Honors thesis committee
Paula Hertfelder, Binghamton University, MA student, Thesis committee
Dylan Davis, Binghamton University, 2018, MA student, Thesis advisor
Thomas Boyd, Binghamton University, 2019, MA student, Thesis advisor
John Tylor Blank, Binghamton University, 2020, MA student, Thesis Advisor
Leah Helgas, Binghamton University, 2020, MA student, Thesis Advisor
Lexie Lowe, Binghamton University 2021, MA student, Thesis Advisor
Kathryn Maupin, Binghamton University, 2021, MA student, Thesis Advisor

Ph.D. Students

Ethan Cochrane, Ph.D. 2004. University of Hawaii. Now at University of Auckland. Thesis
committee member.
Alex Morrison. University of Hawai'i Ph.D. 2012, Currently post-doc at the University of
Auckland. Thesis committee.
Yasha Harberg, Ph.D. 2016. Robustness and evolvability in cultural systems: identifying
robust cultural elements and mapping cultural inheritance systems. Department of
Biological Science, Binghamton University. Thesis committee.
Mark Madsen, Ph.D., 2020, University of Washington, Thesis committee.

2. Current Graduate Students

Sarah Gilleland (Binghamton University, Ph.D. student, Thesis advisor)
Tiffany Raymond (Binghamton University, Ph.D. student, Thesis advisor)
Kyle Gowan (Binghamton University, Ph.D. student, Thesis advisor)
Erin Whitson (Binghamton University, Ph.D. student, Thesis advisor)
Tessa Somogyi (Binghamton University, Ph.D. Student, Thesis committee member)

SCHOLARLY ACTIVITIES

Grants and Contracts

2021 (*pending*) National Science Foundation: Growing Convergence Research.
Collaborative Research: GCR: Using convergent modeling to enhance online collective
action for sustainable offline communities. With Andreas Pape, Jeremy Blackburn,
Robert J. DiNapoli, and Pamela Mischen. \$1,802,997.

- 2021 (*pending*) National Science Foundation: Human Environment and Geographical Sciences Program. Past and Future Resilience to Fresh Water Scarcity on Oceanic Islands, with Timothy de Smet, Robert J. DiNapoli and Henrietta Dulai (University of Hawai'i). \$243,576.
- 2021 (*pending*) National Science Foundation, EarthCube Program. EarthCube Capabilities: A Community-Driven Cyberinfrastructure for Humanitarian Geoscience, with Timothy de Smet, Alex Nikulin, Robert J. DiNapoli, \$1,456,122
- 2021 (*pending*) National Science Foundation: Sustainable Regional Systems Networks. SRS RN: Planning a localized regenerative food system for rural-urban communities. With Barry Brenton, Lina Begdache, Robert J. DiNapoli, Valerie M. Imbruce, and Pamela A. Mischen. \$149,999.
- 2021 International Archaeological Research Institute. Solomon Islands Remote Sensing, Guadalcanal Battlefields. With Timothy De Smet and Alex Nikulin, \$177,437
- 2021 International Archaeological Research Institute. Remote Sensing Surveys in the Punalu'u Valley, Oahu, Hawaii, with Timothy De Smet and Robert DiNapoli, \$29,631
- 2021 National Geographic (NGS-85450R-2). Enduring Impacts: Archaeology of Sustainability. Sustainable freshwater management: a deep-time perspective from Rapa Nui (Easter Island), with Robert DiNapoli. \$60,000.
- 2018 National Geographic Shell Rings of South Carolina. Matt Sanger, Carl Lipo and Thaddeus Bissett, \$28,810
- 2017 Robert F. Schumann Foundation – Ecosystems Education Grant (with Pamela Mischen and Roberson Museum), \$100,000
- 2017 State of Louisiana, Research Grant –Matthew C. Sanger, Carl Lipo \$20,000.
- 2016 Freshman Immersion Stream, Geospatial Remote Sensing, Carl Lipo, Matthew Sanger, Alex Nikulin, and Jeffrey Pietras. Binghamton University, \$160,000
- 2016 Prehistoric Ceramic Vessel Technology. Binghamton University, Material and Visual World, Transdisciplinary Area of Excellence. Co-PI with Matt Sanger and Jungyun Cho. \$5100.
- 2014 Reconstructing Pukao Transport on Easter Island, Chile. CSULB Research, Scholarly and Creative Activities Grant. \$4500.
- 2011 Collaborative Research: Testing and Refining Ceramic Rehydroxylation Dating. This project is a collaboration between Michigan Tech University, Arizona State University, Tel Aviv University and CSULB to cross evaluate rehydroxylation methods for dating ceramics. The CSULB portion of this project is \$30000 for one year of study. NSF Archaeometry Program Award #7214441
- 2011 The Statue That Walked. National Geographic Expeditions Council Grant, Moai moving experiments. \$44,000
- 2011 NSF Research Experience for Undergraduates (REU). Mapping the Prehistoric Landscape of Rapa Nui, Chile. Co-PI with C. Lee and S. Wechsler (CSULB, Geography). NSF Award #1005258, 3 years, \$340,000.
- 2009 NSF MRI R² Grant: The Development of a Low-Cost and High-Throughput Dating System for Prehistoric Ceramics. PI with H. Neff. NSF Award BCS-090121, 3 years, \$310,000.
- 2008 NSF Archaeometry -- Solid-Sample Inorganic Analysis Facilities for Archaeological Research at IIRMES, CSULB. Co-PI with H. Neff (CSULB). The proposal provides support for visiting scholars and researchers to work with CSULB faculty on analyses using IIRMES analytic equipment. NSF Award #: 0917702. \$298,000.
- 2008 2008-2009 Enhancing Educational Effectiveness Through Technology Award. Acquisition of a large high-resolution monitor for instruction in geospatial applications. \$2,500, CSULB Academic Affairs.
- 2008 Dating Prehistoric Stone Architecture using Optically Stimulated Luminescence, CSULB

- Scholarly and Creative Activities Award. Acquisition of a highly sensitive CCD camera for resolving luminescence signals. \$5,000.
- 2007 Statue Chronology and Variability on Easter Island, Chile. CSULB Scholarly and Creative Activities Award. \$4500.
- 2007 NSF Archaeometry - Luminescence Dating and Brownware Ceramics in the Great Basin. Co-PI with J.W. Eerkens (University of California Davis). The funds will support laboratory research and student assistantships. NSF Award Number: BCS-0723857. \$76,410.
- 2006 NSF Archaeometry -- Solid-Sample Inorganic Analysis Facilities for Archaeological Research at IIRMES, CSULB. Co-PI with H. Neff (CSULB). The proposal provides support for visiting scholars and researchers to work with CSULB faculty on analyses using IIRMES analytic equipment. \$170,517.
- 2006 Contract: Caltrans - On-call Geophysical Review for Caltrans (Contract). This project calls for periodic reviews of geophysics related projects for the California Department of Transportation. This project's budget is \$50,000 for the first year and will be expanded to \$150,000 in the second year for on-call fieldwork. The project supports faculty and graduate students in geophysical research.
- 2006 Contract: Caltrans - LAN-283 Curation, Caltrans (Contract). I successfully wrote a proposal to support the curation of an archaeological collection held at CSULB (\$16,000). This project funds a graduate student for a year to bring collection up to modern curation standards.
- 2006 Contract: Applied Earthworks: Jefferson/I10 Geophysical Survey (Contract). This project funded three students to conduct geophysical surveys in a CRM project in an area near Indio. \$70,000, Indio, California. Funded student field work.
- 2006 Prehistoric Earthworks of the Mississippi River Valley. CSULB Scholarly and Creative Activities Award. \$4000.
- 2005 PISCES - Acquisition of an alpha irradiation source for luminescence dating. Pinpoint Institute for Scientific Cultural Evolutionary Studies (PISCES), \$13000. I created a proposal and organized private donors to support this purchase.
- 2005 GPR – SLICE: In-kind donation of GPR Processing Software – GPR SLICE, \$4500. I negotiated a donation of licenses for GPR-SLICE, a software package for manipulating and analyzing GPR data in three dimensions by Geophysical Archaeometry Laboratory.
- 2004 In-kind donation and acquisition of twenty PC computers for the CSULB archaeological laboratory from Boeing. With H. Neff, I assisted in organizing and arranging an in-kind donation of equipment from the University of Florida to the CSULB luminescence laboratory in IIRMES.
- 2004 In-kind donation and acquisition of Daybreak Nuclear Alpha Counter, TL oven and Curium-242 alpha source, from the University of Florida, ca. \$20,000. I organized and arranged an in-kind donation of equipment from the University of Florida to the CSULB luminescence laboratory in IIRMES.
- 2005 Geophysical Studies of Prehistoric Architecture and Deposits at Rapa Nui, Chile. CSULB Scholarly and Creative Activities Award. \$4500.
- 2004 Acquisition of a next-generation Ground Penetrating Radar unit for the study of archaeological materials. Pinpoint Institute for Scientific Cultural Evolutionary Studies (PISCES), \$13000. I wrote this proposal to obtain funds from a private source of money.
- 2004 The Evolution of Social Complexity among the Late Prehistoric Populations of the Mississippi Valley: A Study of Community Patterns of Fortified Villages. CSULB Scholarly and Creative Activities Award. \$3962.
- 2003 GPS and Geophysical Research and Training Equipment, CSULB University Extension Services, \$80,000. With Daniel Larson, I developed a proposal for the acquisition of a

- comprehensive package of Global Positioning Systems for use with our geophysical equipment. I was the primary writer on the proposal. This package was funded by CSULB Extension Services and included a Real Time Kinematic system (RTK), two satellite-differential systems and 20 hand-held GPS units.
- 2003 Mapping Archaeological and Environmental Landscapes on Rapa Nui (Easter Island) Using High-Resolution Satellite Imagery. CSULB Scholarly and Creative Activities Award. \$4000.
- 2003 NSF Major Research Instrumentation (MRI). Acquisition of a Time-of-Flight (TOF) ICP-MS for Interdisciplinary Research in Archaeology, Geology, and Biology at CSULB. NSF MIR Grant. Co-PI with H. Neff, Andrew Z. Mason, Richard Behl and J.W. Eerkens, \$250,000. H. Neff was the primary author on this proposal. I contributed a section on the use of the TOF for luminescence dating research.
- 2002 Luminescence Dating Facilities. I wrote a proposal for the acquisition of a Risoe TL-OSL Reader that was funded by CSULB University Extensions Services. With contributions by the College of Natural Sciences and Mathematics for laboratory construction and College of Liberal Arts for miscellaneous equipment, the amount funded for the lab was approximately \$100,000. The lab is functional as of the fall of 2004. The lab now employs a full-time student and part-time student assistants.

PUBLICATIONS

Students who are authors are identified in *italics*.

Books

Hunt, T. L. and C.P. Lipo

2011 *The Statues that Walked: Unraveling the mystery of Easter Island*. Free Press, NY.

Reviews

The Wall Street Journal (July 2011)

Archaeologists Terry Hunt and Carl Lipo in "The Statues That Walked," a fascinating entry in the pop-science genre of Everything You Know Is Wrong.

Huffington Post (Brian Fagan)

"Only very rarely do two scholars revolutionize a chapter of history. But this important research, even if modified by future inquiry, offers a compelling alternative to the ecological Armageddon of so much popular literature. And it provides us with ample reason to respect the cultural heritage of Rapa Nui's indigenous inhabitants."

"Rescuing the Rapa Nui" Archaeology Magazine. Volume 64 Number 4, July/August

"The authors present a believable case to counter what has become the accepted narrative about Easter Island. Now and again, they step away from the research to take long looks at the island's forlorn beauty, allowing the reader to stand beside them. The book is engaging even as it rescues Rapanui culture from being reduced to a cautionary environmental tale."

Lipo, C.

2001 *Science, Style and the Study of Community Structure: An Example from the Central Mississippi River Valley*. British Archaeological Reports, International Series, no. 918. Oxford.

Dales, G. F. and C. P. Lipo

1992 *Explorations along the Makran Coast, Pakistan: A Search for Paradise*, Contribution of the Archaeological Research Facility, Number 50, University of California, Berkeley.

Edited Volumes

Lipo, C., M.J. O'Brien, S. Shennan and M. Collard (editors)

2005 *Mapping Our Ancestors: Mapping Our Ancestors: Phylogenetic Methods in Anthropology and Prehistory*. Aldine/Transaction Press, New York.

Published Reviews:

Relethford, John H. (2008) American Journal of Physical Anthropology 136(2):243-244.

From review (p. 244)

Although I have always advocated the holistic ideal of anthropology, in practice it has often been difficult to point to specific examples of interests that cut across different subfields, particularly in recent decades. This book made me feel a little more optimistic, in large part because it played to my own predilection for defining anthropology as the history and geography of the human species in both biological and cultural dimensions. Others will, of course, have a different view of what anthropology is, or should be, but a concern for history and ancestor-descendant relationships does give us all at least one starting point for continued dialogue across the subdisciplines.

Fraser D. Neiman, Monticello

These engaging essays help point the way to a new, *exciting four-field anthropology*, grounded in the use of evolutionary theory and phylogenetic methods to make and evaluate inferences about what happened in human history for archaeological, linguistic, biological, and ethnological data."

James K. Feathers, Department of Anthropology, University of Washington

"As the various contributors to [*Mapping Our Ancestors*] make perfectly clear, the application of evolutionary theory to cultural change cannot simply borrow from biological evolution. Cultural transmission is qualitatively different from genetic transmission and requires different concepts and principles, which cannot be borrowed but must be developed by archaeologists, anthropologists, and linguists. Among the differences between cultural and genetic transmission are the presence of horizontal as well as vertical inheritance, the greater propensity for neutral variation, the much higher probability of reticulation (or hybridization), and a more fluid scale at which evolution can occur. While much work remains to be done, the various contributors have made great strides in identifying these problems and suggesting ways they might be resolved. The various articles are not just abstract theorizing but practical attempts to grapple with these issues. After reading this book, how an evolutionary theory of culture might look becomes clearer."

Maria R. Roti, Anthropology and Aging Quarterly

"As an anthropological method, phylogenetic mapping is still a relatively new method that is in its infancy. Studying this topic has value because it may hold a key to the future of anthropological studies in determining transmission of culture. Phylogenetic mapping is a creative method that allows for a new way to interpret data as well as giving rise to new hypotheses for understanding culture change...The focus on the relationships of biology, culture change, and knowledge transmission over time and across space are core anthropological concerns impacting every subfield. *To understand the complexities of using phylogenetic mapping, one must have a solid four-field background*. Thus, this highly technical book is most relevant for archaeologists, bioarchaeologists, and historical

linguists."

Hunt, T. L., C.P. Lipo and S. L. Sterling (editors)
2001 *Posing Questions for a Scientific Archaeology*. Bergin & Garvey, Westport.

Published Reviews of Book:

Redmond, Brian A (2004) *American Antiquity* 69(1):190-191.

Lyman, Lee R. (2002) *Journal of Anthropological Research* 58:267-268.

"A lot of work, effort, and time is involved in the doing of evolutionary archaeology. Existing data cannot be used to address evolutionary questions. We must learn aspects of disciplines that hold an essentialist ontology and that focus on immanent (atemporal and aspatial or universal) properties and processes. Darwinian evolution comprises a theory that, with some thoughtful work, provides explanations rather than interpretations. Doing evolutionary archaeology will be rewarding because of the theoretically founded- and thus empirically testable-conclusion that it will generate. This is a book well worth having."—Lee Lyman, *Journal of Anthropological Research*

Refereed Journal Articles

DiNapoli, Robert J., Carl P. Lipo, Terry L. Hunt, and David. S. Wilson
2021 (in review) Triumph of the commons: sustainable community practices on Rapa Nui (Easter Island). *Sustainability*.

DiNapoli, Robert J., Carl P. Lipo, Timothy de Smet, and Terry L. Hunt
2021 (in review) Thermal imaging shows submarine groundwater discharge plumes associated with ancient settlements on Rapa Nui (Easter Island, Chile). *Remote Sensing*.

Davis, Dylan S., Gino Caspari, Carl P. Lipo, Matthew C. Sanger
2021 (in press) Deep Learning Reveals Extent of Archaic Native American Shell-Ring Building Practices. *Journal of Archaeological Science*.

DiNapoli, Robert N., Enrico Crema, Carl P. Lipo, Timothy Rieth, and Terry Hunt
2021 (in press) Approximate Bayesian Computation of radiocarbon and paleoenvironmental record shows population resilience on Rapa Nui (Easter Island). *Nature Communications*.

Mischen, P., and C.P. Lipo
2021 The role of culture in sustainable communities: the case of Rapa Nui (Easter Island, Chile) *SN Social Sciences*. 1(115). <https://doi.org/10.1007/s43545-021-00124-7>

Lipo, Carl P., Robert J. DiNapoli, Mark E. Madsen, and Terry L. Hunt
2021 Population structure drives cultural diversity in finite populations: A hypothesis for localized community patterns on Rapa Nui (Easter Island, Chile). *PLOS One*.
<https://doi.org/10.1371/journal.pone.0250690>

DiNapoli, R., Lipo, C. and Hunt, T.
2020 Revisiting warfare, monument destruction, and the 'Huri Moai' phase in Rapa Nui (Easter Island) culture history, *Journal of Pacific Archaeology*. Available at:
<https://pacificarchaeology.org/index.php/journal/article/view/313>.

- Davis, Dylan S., Robert J. Dinapoli, Matthew C. Sanger, and Carl P. Lipo
 2020 The Integration of Lidar and Legacy Datasets Provides Improved Explanations for the Spatial Patterning of Shell Rings in the American Southeast. *Advances in Archaeological Practice*. <https://doi.org/10.1017/aap.2020.18>
- DiNapoli, Robert J., Timothy Reith, Carl P. Lipo, and Terry L. Hunt
 2020 A model-based approach to the tempo of “collapse”: The case of Rapa Nui (Easter Island). *The Journal of Archaeological Science*.
<https://doi.org/10.1016/j.jas.2020.105094>
- Mischen, Pamela, Carl P. Lipo, Terry L. Hunt
 2019 Buena gobernanza de los bienes comunes de Rapa Nui: presente y pasado (Good governance of the commons of Rapa Nui (Easter Island, Chile): Present and past). *Revista de Geografía Norte Grande*, 2019-12 (74):61-85.
- Hixon, Sean, Robert J. Dinapoli, Carl P. Lipo, and Terry L. Hunt
 2019 The Ethnohistory of Freshwater Use on Rapa Nui (Easter Island, Chile). *The Journal of the Polynesian Society* 128(2):163-190 <https://doi.org/10.15286/jps.128.2.163-190>
- Mischen, Pamela A., George Homsy, Carl P. Lipo, Robert Holahan, Valerie Imbruce, Weixing Zhu, Joseph Graney, Ziang Zhang, Louisa M. Holmes, Manuel Reina
 2019 A Foundation for Measuring Community Sustainability. *Sustainability*. 11(903):
 doi:10.3390/su11071903
- DiNapoli, Robert J., Carl P. Lipo, Tanya Brosnan, Terry L. Hunt, Sean Hixon, Alex E. Morrison, and Matthew Becker.
 2019 Rapa Nui (Easter Island) Monument (Ahu) Locations Explained by Freshwater Sources. *PLOS ONE* 14 (1): e0210409. <https://doi.org/10.1371/journal.pone.0210409>.
- Brosnan, T., M. Becker, and C.P. Lipo
 2018 Coastal Groundwater Discharge and the Ancient Inhabitants of Rapa Nui (Easter Island), Chile. *Hydrogeology*. 1-16. <https://doi.org/10.1007/s10040-018-1870-7>
- Davis, D., M. Sanger, and C.P. Lipo
 2018 Automated mound detection using LiDAR and Object-Based Image Analysis in Beaufort County, SC. *Southeastern Archaeology*.
<https://doi.org/10.1080/0734578X.2018.1482186>
- Davis, D., M. Sanger and C. P. Lipo
 2019 A comparison of automated object extraction methods for mound and shell-ring identification in coastal South Carolina. *Journal of Archaeological Science: Reports* 23:166-177.
- Lipo, C. P., R. Dinapoli, and T.L. Hunt
 2018 Commentary: Rain, Sun, Soil, and Sweat: A Consideration of Population Limits on Rapa Nui (Easter Island) before European Contact. *Frontiers of Evolutionary Ecology*.
 doi: 10.3389/fevo.2018.00025

- White, A.J., L. R. Stevens, V. Lorenzi, S. E. Munoz, C. P. Lipo, S. Schroeder
 2018 An evaluation of fecal stanols as indicators of population change at Cahokia, Illinois. *Journal of Archaeological Science* 93:129-134.
- Hixon, S., C.P. Lipo, and T.L. Hunt
 2018 Using Structure from Motion Mapping to Record and Analyze Details of the Colossal Hats (*Pukao*) of Monumental Statues on Rapa Nui (Easter Island). *Advances in Archaeological Practice*, 6(1):42-57
- Hixon, S., C.P. Lipo, and T.L. Hunt
 2018 The Colossal Hats (*Pukao*) of Monumental Statues: An Analysis of *Pukao* Variability on Rapa Nui (Easter Island). *Journal of Archaeological Science* (in review).
- C. L. Jarman, Thomas Larsen, T.L. Hunt C.P. Lipo, Reidar Solsvik, Natalie Wallsgrove, Cassie Ka'apu-Lyons, Hilary G. Close, Brian N. Popp
 2017 Diet of the prehistoric population of Rapa Nui (Easter Island, Chile) shows environmental adaptation and resilience. *Associated Journal of Physical Anthropology*. 64(2):343-361
- Dinapoli, B., A. Morrison, C.P. Lipo, T.L. Hunt and B. Lane
 2017 East Polynesian Islands as Models of Cultural Divergence: The Case of Rapa Nui and Rapa Iti. *Journal of Island and Coastal Archaeology*. Published online 20 Jan 2017. <http://dx.doi.org/10.1080/15564894.2016.1276490>
- Lipo, C. P., Rene Horneman, T.L. Hunt, and Vincent Bonhomme
 2016 Weapons of War? Rapa Nui Mata'a Morphometric Analyses. *Antiquity*. 90(349):172-187
- O'Brien, M.J., M. T. Boulanger, B. Buchanan, R. A. Bentley, R. Lee Lyman, C.P. Lipo, M. E. Madsen, and M. I. Eren
 2015 Design Space and Cultural Transmission: A Case Study from Paleoindian Eastern North America. *Journal of Archaeological Method and Theory*. Published online: 05 July 2015.
- Lipo, C. P., M. E. Madsen, and R. C. Dunnell
 2015 A Theoretically-Sufficient and Computationally-Practical Technique for Deterministic Frequency Seriation. *PLoS ONE*. Published online: 29 April 2015. DOI: 10.1371/journal.pone.012494 <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0124942>
- Eerkens, J.W. and C.P. Lipo
 2014 A tale of two technologies: Prehistoric diffusion of pottery innovations among hunter-gatherers. *Journal of Anthropological Archaeology*. 35:23-31.
- Vaughn, K. J.; J.W. Eerkens, C.P. Lipo. S. Sachiko, K. Schreiber
 2014 It's About Time? Testing the Dawson Ceramic Seriation Using Luminescence Dating, Southern Nasca Region, Peru. *American Antiquity* 25(4):449-461.
- Eerkens, J.W. and C.P. Lipo
 2013 Luminescence Dating of Pottery from Owens Valley and Death Valley. *Pacific Coast*

Archaeological Quarterly 47(1 and 2): 101-114.

Lipo, C. P., T. Hunt and S. Rapu Haoa

2013 The 'Walking' Megalithic Statues (*Moai*) of Easter Island. *Journal of Archaeological Science* <http://dx.doi.org/10.1016/j.jas.2012.09.029>

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Conference Papers and Posters

DiNapoli Robert, Enrico Crema, Carl Lipo, Tim Rieth, and Terry Hunt

2021 An Approximate Bayesian Computation framework for modeling radiocarbon time-series: an example from Rapa Nui (Easter Island). 86th Annual Meeting of the Society of American Archaeology, online.

Lipo, Carl P.

2019 Networks and Drift on Small Islands: The Case of Rapa Nui (Easter Island, Chile). Invited speaker at the NERCCS 2019: Second Northeast Regional Conference on Complex Systems, Binghamton, NY

Lipo, Carl P., *Robert Dinapoli*, Mark E. Madsen, and Terry L. Hunt

2019 Solutions to Drift on Small and Isolated Populations: The Case of Rapa Nui (Easter Island, Chile). Paper presented at the 85th Annual Meeting Society for American Archaeology. Albuquerque, NM

Davis, Dylan, Matthew Sanger, Carl P. Lipo

2019 Shell Rings and Settlement Organization in the Coastal American Southeast: New insights from remotely sensed data. Poster presented at the 84th Annual Meeting Society for American Archaeology. Albuquerque, NM

Mischen, Pamela, Hiroki Sayama, Ximeng Cheng, and Carl P. Lipo

2019 Creating Sustainable Systems: Resilient and Adaptive Networks. American Society for Public Administration Meetings, Washington, DC

Bayer, S. J., N. Chacko, L. Garvey, V. Boos, C. P. Lipo and T. De Smet

2018 Using Hyperspectral Imaging to Detect Tree Distress Due to Woolly Adelgid Infestation. American Geophysical Union, Fall Meeting 2018, abstract #B33F-2741, Pp. B33F-2741. <https://ui.adsabs.harvard.edu/#abs/2018AGUFM.B33F2741B>.

Raymond, Tiffany, Carl P. Lipo, *Harold Jones*, and *Navpreet Kaur*

2018 pXRF Study of Paint Recipes measured among prehistoric ceramics of the Lower Mississippi Valley. Paper presented at the 75th Annual Meeting of the Southeastern Archaeological Conference in Augusta, GA

Mischen, P., H. Sayama, *X. Chen* and C. P. Lipo

2018 Creating Sustainable Systems: Resilient and Adaptive Networks. Paper presented at the Ninth International Conference on Complex Systems. July 22-27, Cambridge, MA.

Gilleland, S.K., J. Amico, A. L. Patchen, T. Raymond, R. R. Hunt,

K. Seeber, K. Throgmorten, A. Young, T. S. DeSmet, C P. Lipo, M. C. Sanger

2018 Geophysical Investigations of the Ridges of Poverty Point, UNESCO World Heritage Site. Poster presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, DC.

Raymond, T., C. P. Lipo, M. Sanger, T. de Smet and A. Patchen

2018 Magnetometer Surveys and the Complex Prehistoric Landscape of Poverty Point, Louisiana. Poster presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, DC.

- O'Hara, N., T. Raymond, C. P. Lipo and H Elliott*
2018 Thermal Properties of Prehistoric Ceramic Vessels of the American Southeast. Poster presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, DC.
- DiNapoli, R., T. L. Hunt and C.P. Lipo*
2018 Quantifying Energy Investment in Monuments (Ahu) on Rapa Nui (Easter Island) Using Structure from Motion Mapping. Poster presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, DC.
- Mischen, P. and C.P. Lipo*
2018 Sustaining Culture to Sustain a Community: The Case of Easter Island. 79th Annual Conference for the American Society for Public Administration. March 9-13, Denver, CO.
- Lipo, C. P.*
2017 The success of Easter Island: Moai as the key to sustainable communities. Knowledge for Governance Conference, Heidelberg, Germany, June 2017.
- Jarman, G., B. Popp, T.L. Hunt and C.P. Lipo*
2017 Diet of the prehistoric population of Rapa Nui (Easter Island, Chile) shows environmental adaptation and resilience. 113th Annual Meeting of the GSA Cordilleran Section, May 23, Honolulu, HI.
- Raymond, T. and C.P. Lipo*
2017 Spatial and Temporal Variation in Prehistoric Refuse Management in the Yazoo Basin, MS. Poster presented at the 82nd Annual Society for American Archaeology Meetings, Vancouver, BC.
- McElhoes, J. and C.P. Lipo*
2017 Spatial, Technological, and Functional Characteristics of Ceramics along the Southern California Coast. Poster presented at the 82nd Annual Society for American Archaeology Meetings, Vancouver, BC.
- Lipo, C.P., R. Dinapoli, A. Morrison and T.L. Hunt*
2017 Spatial Association between Rapa Nui (Easter Island) Ahu and Freshwater Sources. Poster presented at the 82nd Annual Society for American Archaeology Meetings, Vancouver, BC.
- Davis, D. and C.P. Lipo*
2017 Resource Scarcity and Monumental Architecture: Cost Signaling on Rapa Nui (Easter Island), Chile. Poster presented at Binghamton University Undergraduate Research Showcase..
- Davis, D. and C.P. Lipo*
2017 The benefits of SWIR imagery for archaeological landscape classification. Poster presented at the 82nd Annual Society for American Archaeology Meetings, Vancouver, BC.

- Hunt, T.L. and C.P. Lipo
 2016 Archaeological Landscapes of Pacific Islands: Documentation, Research, and Heritage Management. Invited Paper. First Conference on Contemporary Issues of Polynesia. 4 December 2016. Hanga Roa, Isla De Pascua, Chile.
- Lipo, C.P. and T. L. Hunt
 2016 Lessons from Rapa Nui's Past for Sustainable Island Futures. Invited Paper. First Conference on Contemporary Issues of Polynesia. 4 December 2016. Hanga Roa, Isla De Pascua, Chile.
- Lipo, C.P. and M. E. Madsen
 2016 Continuity-based approaches to seriation and the study of patterns of cultural inheritance. Paper presented at the 28th Annual Human Behavior and Evolution Society (HBES) meetings, Vancouver, BC. June 29, 2016
- Madsen, M. E. and C. P. Lipo
 2016 Measuring Cultural Relatedness Using Multiple Seriation Ordering Algorithms. Paper presented at the 81st Annual Society for American Archaeology Meeting, Orlando, FL.
- DiNapoli, R., T. L. Hunt, A. E. Morrison, B. G. Lane and C. P. Lipo*
 2016 Resource structure, economic defendability, & conflict in East Polynesia. Paper presented at the 81st Annual Society for American Archaeology Meeting, Orlando, FL.
- Zeferjahn, T., M. Becker and C. P. Lipo*
 2016 Submarine Discharge and the Ancient Inhabitants of Easter Island. Poster presented at the 112th Annual Meeting of the Geological Society of America Meeting, Cordilleran Section, Ontario, CA.
- Kott, I., J. Pratt, C. Lee, C.P. Lipo, and T. Hunt.*
 2015 Application of Object-based Image Analysis of High Resolution Imagery to Identify Archaeological Features on Rapa Nui. Poster Presentation at the Society for American Archaeology 80th Annual Conference, San Francisco CA. April 15-19.
- Morrison, A. and C. P. Lipo
 2015 Exploring the Spatial Distribution of Rapa Nui Ahu with Costly Signalling Theory: An Agent Based Model. Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Hunt, T. L. and C. P. Lipo
 2015 The evolution of "hyper-locality" on Rapa Nui (Easter Island). Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Brennan, C., J. McElhoes, C. Alvitre and C.P. Lipo
 2015 Best Practices and Community Engagement for Reinternment of CA-LAn-270 (Los Altos Village) Cultural Materials on a National Registry Listed Site. Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.

- Hixon, S., C.P. Lipo, T.L. Hunt*
 2015 The colossal hats (*pukao*) of monumental statues: an analysis of shape variability among the *pukao* of Rapa Nui. Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Lipo, C. P. and M. E. Madsen*
 2015 An Approach to Fitting Transmission Models to Seriations for Regional-Scale Analysis. Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Madsen, M. E. and C.P. Lipo*
 2015 Open data and open science. Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Rennie Horneman, C.P. Lipo, T.L. Hunt and Vincent Bonhomme*
 2015 Morphometric Analysis of Stemmed Obsidian Tools from Rapa Nui (Easter Island, Chile). Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Lee, C., S. Wechsler and C.P. Lipo*
 2015 Small commercial aerial platforms for the generation of systematic, high-resolution, multi-spectral imagery and photogrammetry: Trimble UX5 and X100. Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Zeferjahn, T., M. Becker, C.P. Lipo*
 2015 Groundwater discharge on Rapa Nui. Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Zeferjahn, T., M. Baroldi, C.P. Lipo, M. Becker, and C. Lee.*
 2015 Rapa Nui: The influence of freshwater sources on pre-historic settlement distribution. Poster Presentation at the Society for American Archaeology 80th Annual Conference, San Francisco CA. April 15-19.
- Jordan Pratt, Isabela Kott, C. Lee, C.P. Lipo, and T.L. Hunt*
 2015 Application of Object-based Image Analysis of High Resolution Imagery to Identify Archaeological Features on Rapa Nui (Easter Island, Chile). Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Cole, M., Becker, M., C.P. Lipo*
 2015 Coastal Groundwater Seeps on Rapa Nui (Easter Island, Chile). Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Kott, I. J. Pratt, C.P. Lipo, C. Lee, and T.L. Hunt*
 2015 Spatial Analysis of Prehistoric Garden Features on Rapa Nui (Easter Island, Chile). Paper presented at the 80th Annual Society for American Archaeology Meeting, San Francisco, CA.
- Kott, I., C. Lee, and C.P. Lipo*
 2014 Application of Object-based Image Analysis of *Manavai* from High Resolution

Imagery of Rapa Nui. Poster presented at the National Science Foundation REU Symposium. Washington, D.C.

McElhoes, Jennifer, C.P. Lipo, S. Gust, J. Cocke and Jeanette Harlow

2014 Thermal Properties and Functional Advantages of Olivine-Tempered Moapa Ware: a Comparative Study. Poster presented at the 79th Annual Society for American Archaeology Meeting. Austin, TX.

Harlow, Jeanette, Elizabeth Niespolo, Sachiko Sakai and Carl Lipo

2014 Pleistocene Butchering of *Bison antiquus*: Evidence from Palos Verde, California. Poster presented at the 79th Annual Society for American Archaeology Meeting. Austin, TX.

Horneman, Rennie, Carl Lipo, T.L. Hunt and Joanne Minerbi

2014 Morphometric Analysis of Shape Variability Among Flaked Stemmed Obsidian Tools from Easter Island. Poster presented at the 79th Annual Society for American Archaeology Meeting. Austin, TX.

Lipo, C.P. and T.L. Hunt

2014 Easter Island, Archaeological Evidence, and the Evolutionary History of Warfare. Paper presented at the 79th Annual Society for American Archaeology Meeting. Austin, TX.

Madsen, M. and C. Lipo

2014 Cultural Transmission of Structured Knowledge and Technological Complexity: Axelrod's Model Extended. Paper presented at the 79th Annual Society for American Archaeology Meeting. Austin, TX.

Niespolo, Elizabeth M., Jeanette Harlow, Carl Lipo and Sachiko Sakai

2013 Thermal Properties and Functional Advantages of Olivine-Tempered Moapaware: A Comparative Study. Poster presented at the 2013 Meetings for the Geological Society of America, Denver, CO.

Morrison, Alex, C.P. Lipo, C. Lee and T.L. Hunt

2013 Multi-stage Remote Sensing Applications for Mapping Archaeological Features and Landscape Characteristics: A Case Study from Rapa Nui (Easter Island), Chile. Paper presented at the Society for American Archaeology Meetings, Honolulu, HI.

Lipo, C. P., C. Lee and S. Wechsler

2013 Landscape-scale Geospatial Research Utilizing Low Elevation Aerial Photography Generated with Unmanned Aerial Systems of Geography and Anthropology, CSU Long Beach. Third Annual Los Angeles Geospatial Summit, Los Angeles, CA.

Lipo, C. P., C. Lee and S. Wechsler

2013 Landscape-scale Geospatial Research Utilizing Low Elevation Aerial Photography. American Geophysical Union Meetings, San Francisco, CA.

Lipo, C. P. and T. L. Hunt

2012 Ecological Catastrophe and Collapse: The Myth of "Ecocide". Conference on the Political Economy of Collapse, PERC Institute, Clemson College, SC.

- Lipo, C. P.
 2012 Temporal Systematics: The Notion of Colonization. Wenner-Gren Workshop on Archaeological Systematics, Mississippi State University, MS.
- Lipo, C. P., M. E. Madsen and T. Hunt
 2012 Cultural inheritance and scientific explanations of the archaeological record. 77th Annual Meeting of the Society for American Archaeology, Memphis, TN.
- Eerkens, J. W. and C.P. Lipo
 2012 Cultural Transmission and Change in Pottery Technologies in the Western Great Basin. 77th Annual Meeting of the Society for American Archaeology, Memphis, TN.
- Gabora, L., S. Leinen, T. Velox and C.P. Lipo
 2011 A Non-Phylogenetic Conceptual Network Architecture for Organizing Classes of Material Artifacts into Cultural Lineages. Paper presented at the 30th Annual Meeting of the Cognitive Science Society, Boston, MA.
- Pereria, C.* and C. P. Lipo
 2011 Patterns of Transmission among Late Prehistoric Potters of the Mississippi River Valley. Poster presented at the 76th Annual Meeting of the Society for American Archaeology. Sacramento, CA.
- Lipo, C. P., H. Neff and *J Kovalchik*
 2011 The Promise and Practicalities of Rehydroxylation Dating for Prehistoric Ceramics. Poster presented at the 76th Annual Meeting of the Society for American Archaeology. Sacramento, CA.
- Bernal, J.*, G. Holk, C.P. Lipo and H. Neff
 2011 An Experimental Study of Mineralogical Changes and Hydrogen Isotope Fractionation in Ceramic Pyrotechnology. Poster presented at the 76th Annual Meeting of the Society for American Archaeology. Sacramento, CA.
- Briester, A.* and C.P. Lipo
 2011 Pyrotechnical Analyses of Brownware Ceramics of the California Deserts. Poster presented at the 76th Annual Meeting of the Society for American Archaeology. Sacramento, CA.
- Neff, H. and C. P. Lipo
 2011 Rehydroxylation Dating in Archaeology. Paper presented at the 112th Annual Meeting of the Archaeological Institute of America. San Antonio, TX.
- Hunt, T. D. and C. P. Lipo
 2010 Technological and Formal Analyses of Stone Plummets from Poverty Point, Louisiana. Poster presented at the 75th Annual Meeting of the Society for American Archaeology. St. Louis, MO.
- Lipo, C. P. and J. W. Eerkens
 2010 Ceramic technology diffusion among prehistoric mobile populations of the California deserts. Paper presented at the 75th Annual Meeting of the Society for American

Archaeology. St. Louis, MO.

Lipo, C. P., *B. Hundtoft* and T.L. Hunt

- 2009 Analyses of Stylistic Variability among Stemmed Obsidian Artifacts on Rapa Nui (Easter Island). Paper presented at the 74th Annual Meeting of the Society for American Archaeology. Atlanta, GA.

Safi, K., H. Neff, C.P. Lipo and Oswaldo Chinchilla

- 2009 Measuring spatial organization at El Baul, Cotzumalguapa, Guatemala. Paper presented at the 74th Annual Meeting of the Society for American Archaeology. Atlanta, GA.

Bardsley, A. and C. P. Lipo

- 2009 Luminescence Dating and the California Desert. Poster presented at the 74th Annual Meeting of the Society for American Archaeology. Atlanta, GA.

Page, A., C. P. Lipo and D. Greenlee

- 2009 Variability in Thermal and Compositional Properties of Poverty Point Objects. . Poster presented at the 74th Annual Meeting of the Society for American Archaeology. Atlanta, GA.

Lipo, C. P. and M. E. Madsen

- 2008 Networks, Frequency Seriation and Models of Cultural Transmission. AHRC CECD Theme B Workshop on Cultural and Linguistic Diversity. Center for the Evolution of Cultural Diversity, December 2008, London.

Cochrane, E. and C. P. Lipo

- 2008 Phylogenetic and graph-based methods in evolutionary anthropology. AHRC CECD Theme B Workshop on Cultural and Linguistic Diversity. Center for the Evolution of Cultural Diversity, December 2008, London.

Harper, V., *J. Jaynes*, C.P. Lipo and R. Dunnell

- 2008 Beveled Projectile Points and Ballistics Technology. Poster presented at the 73rd Annual Meeting of the Society for American Archaeology. Vancouver, B.C.

Daniels, J. and C.P. Lipo

- 2008 Digital Image Processing of Shell Temper Variability in Late Prehistoric Ceramics. Poster presented at the 73rd Annual Meeting of the Society for American Archaeology. Vancouver, B.C.

Safi, K., C. Watkins, C.P. Lipo and H. Neff

- 2008 Luminescence dating of prehistoric Hohokam irrigation canals using IRSL and SAR analyses. Poster presented at the 73rd Annual Meeting of the Society for American Archaeology. Vancouver, B.C.

Hundtoft, B., *R. Thomas* and C.P. Lipo

- 2008 Stylistic Analyses of Stemmed Obsidian Chipped Stone Tools on Easter Island. Poster presented at the 73rd Annual Meeting of the Society for American Archaeology. Vancouver, B.C.

- Madsen, M, C.P. Lipo and A.E. Bentley
 2008 Seriation Methods for Inferring Social Network Structure from Archaeological Data. Poster presented at the 73rd Annual Meeting of the Society for American Archaeology. Vancouver, B.C.
- Gilstrap, William, Carl Lipo and H. Neff*
 2008 The Chronology and Variability of Etruscan Architectural Terracotta. Poster presented at the 73rd Annual Meeting of the Society for American Archaeology. Vancouver, B.C.
- Morrison, Alex E., C. P. Lipo and T. L. Hunt*
 2007 A multi-level selection framework for analyzing community patterning on Rapa Nui: An example from the Northwest and South coasts. Paper presented at the VII International Conference on Easter Island and the Pacific. Gotland University in collaboration with the Easter Island Foundation. Visby, Sweden.
- Chinchilla Mazariegos, O., C. Lipo, H. Neff, E. Gómez, and B. Cosenza
 2007 Nuevas Investigaciones Geofísicas Y Arqueológicas En Cotzumalguapa. Paper presented at the Simposio de Inve.stigaciones Arqueológicas en Guatemala, Museo Nacional de Arqueología y Etnología, Guatemala
- Safi, K. Lipo, C.P., Hunt, T.L. and S. Rapu*
 2007 Geophysics and sequences of monumental architecture at the Anakena Dune of Easter Island. Poster presented at the 72nd Annual Meeting of the Society for American Archaeology. Austin, TX.
- Harper, V., Neff, H. and C. P. Lipo*
 2007 Basalt artifact sourcing on Easter Island. Poster presented at the 72nd Annual Meeting of the Society for American Archaeology. Austin, TX.
- Thomas, R., Neff, H. and C. P. Lipo*
 2007 Sourcing stemmed obsidian bifaces on Easter Island. Poster presented at the 72nd Annual Meeting of the Society for American Archaeology. Austin, TX.
- Hunt, T. L. and C. P. Lipo
 2007 Estimating the colonization date for Rapa Nui (Easter Island). Poster presented at the 72nd Annual Meeting of the Society for American Archaeology. Austin, TX.
- Chinchilla Mazariegos, O., C. Lipo, H. Neff, E. Gómez, B. Cosenza, E. Reyes, *I. Bradford, K. N. Safi, and B. Plaskey*
 2006 Nuevas Investigaciones Geofísicas Y Arqueológicas En Cotzumalguapa. Paper presented at the Simposio de Inve.stigaciones Arqueológicas en Guatemala, Museo Nacional de Arqueología y Etnología, Guatemala
- Neff, H., B. Arroyo, *I. Bradford, K. Pereira, M. Cossich, C. Lipo, K.N. Safi and B. Plaskey*
 2006 Geofísica y los monumentos de Naranjo. Paper presented at the Simposio de Inve.stigaciones Arqueológicas en Guatemala, Museo Nacional de Arqueología y Etnología, Guatemala

Lipo, C. P. and T. H. Hunt

- 2006 The Cultural Phylogeny of Easter Island Statues. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan, Puerto Rico.

Hunt, T. L., C. P. Lipo and S. Rapu

- 2006 An Elephant in the Room. A critical look at the archaeology of Easter Island. Paper presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan, Puerto Rico.

Lipo, C.P. Bush, D. A., Sakai, S., Neff, H., Dudgeon, J. V., Feathers, J. K.

- 2005 Luminescence Dating of Ceramic Assemblages at the Institute for Integrated Research in Materials, Environments, and Society (IIRMES), California State University, Long Beach, USA. Poster presented at the 11th International Conference on Luminescence and Electron Spin Resonance Dating. Cologne, Germany.

Lipo, C. P.

- 2005 *Comments on Applying Biological Concepts to the Explanation of the Archaeological Record*. Paper presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, Utah.

Bradford, I. and C.P. Lipo

- 2004 An Application of High-Resolution Satellite Imagery for the Mapping of Prehistoric Cultivation Features on Rapa Nui, Chile. Poster presented at the 1st Annual Conference for the Archaeological Sciences in the Americas Society, Tucson.

Hunt, T. L. and C.P. Lipo

- 2004 Ancient Roads and Colossal Chiefs. Paper presented at the 1st Annual Conference for the Archaeological Sciences in the Americas Society, Tucson.

Lipo, C. P. and D.O. Larson

- 2004 The Application of Near Surface Remote Sensing in Archaeological Research Design. Paper presented at the 1st Annual Conference for the Archaeological Sciences in the Americas Society, Tucson.

Lipo, C.P., T.L. Hunt, and S. Rapu

- 2004 Recent Geophysical and archaeological studies on Rapa Nui. Paper presented at the VI Annual International Conference on Easter Island and the Pacific, Vina De Mar, Chile.

Bradford, I. and C.P. Lipo

- 2004 The Use of Multispectral Satellite Imagery to Map Prehistoric Agricultural Features on Rapa Nui. Paper presented at the VI Annual International Conference on Easter Island and the Pacific, Vina De Mar, Chile.

Hunt, T. L. and C.P. Lipo

- 2004 The Ancient Moai Roads of Easter Island. Paper presented at the VI Annual International Conference on Easter Island and the Pacific, Vina De Mar, Chile.

Freckleton, I., C. P. Lipo, H. Neff and T. L. Hunt

- 2004 ICP-MS Analyses of Obsidian Sources on Easter Island: A Study of Resource Movement and Microcommunity Exchange. Paper presented at the VI Annual

International Conference on Easter Island and the Pacific, Vina De Mar, Chile.

Lipo, C.P. and T. L Hunt

- 2004 The Ancient Moai Roads of Easter Island. Paper presented at the 69th Annual Meeting of the Society for American Archaeology. Montreal.

Feathers, J., R. C. Dunnell, J. House and C. P. Lipo

- 2004 Luminescence Dating of Ceramics in the Lower Mississippi Valley. Poster presented at the 69th Annual Meeting of the Society for American Archaeology. Montreal.

Bradford, I. and C. P. Lipo

- 2004 The Use of Multispectral Satellite Imagery to Map Prehistoric Agricultural Features on Rapa Nui. Paper presented at the 69th Annual Meeting of the Society for American Archaeology. Montreal.

Freckleton, I., C. P. Lipo, and H. Neff

- 2004 ICP-MS Analyses of Obsidian Sources on Easter Island: A Study of Resource Movement and Microcommunity Exchange. Paper presented at the 69th Annual Meeting of the Society for American Archaeology. Montreal.

Larson, D. O. and C. P. Lipo

- 2004 The Evolution of Complexity among Chumash Populations of Central California Paper presented at the 69th Annual Meeting of the Society for American Archaeology. Montreal.

Hunt, T. L and C. P. Lipo

- 2004 Documenting the Ancient Statue Roads of Easter Island. Paper presented at the 69th Annual Meeting of the Society for American Archaeology. Montreal.

Eerkens, J. W., C. P. Lipo, and R. L. Bettinger

- 2003 Modeling the Cultural Transmission of Copying Errors in the Archaeological Record. Paper presented at the 102nd Annual Meeting for the American Anthropological Association. Chicago.

Hunt, T. L. and C. P. Lipo

- 2003 The Ancient *Moai* Roads of Easter Island. Paper presented at the 14th Annual Meeting of the Society for Hawaiian Archaeology, Kona.

Lipo, C. P. and M. J. O'Brien

- 2003 The Promise and Challenges of Phylogenetic Methods for Measuring Relatedness in the Archaeological Record. Paper presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee.

Lipo, C. P. and K. Wilhelmsen

- 2003 Relatedness and Stylistic Variability of Projectile Points. Paper presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee.

Lipo, C. P. and D.O. Larson

- 2003 Future Directions in Geophysics and Archaeological Practice. Paper presented at the 2003 Society of California Archaeology Meetings, Sacramento, California

- Larson, D.O. and C. P. Lipo
2003 The History of Geophysics and Archaeological Practice. Paper presented at the 2003 Society of California Archaeology Meetings, Sacramento, California
- Lipo, C. P., T. L. Hunt and M. Madsen
2002 Mapping Historical Relations in the Study of Human Dispersals Using Archaeological, Biological and Linguistic data. Paper presented at the Workshop on Human Global Dispersals, British Academy International Networks Workshop, Department of Archaeology, University of Southampton, June 27-28, 2002.
- Lipo, C. P. and M. Madsen
2001 Organization. Paper presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans.
- Madsen, M., C. P. Lipo, and T. L. Hunt
2001 Cultural Elaboration, Life Histories, and Bet-Hedging Strategies in Unpredictable Environments. Paper presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans.
- Hunt, T. L. and C. P. Lipo
2001 The Evolution of Cultural Elaboration on Rapa Nui (Easter Island). Paper presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans.
- Hunt, T. L. and C.P. Lipo
2000 Cultural Elaboration and Environmental Uncertainty in Polynesia. 13th Annual Meeting of the Society for Hawaiian Archaeology, Kona.
- Lipo, C.P.
2000 Building Group-Level Units in the Archaeological Record: An Example from the Mississippi River Valley. Paper presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia.
- Allen, T., C.P. Lipo and T. L. Hunt
2000 Seriation of Architectural Sites on Rapa Nui (Easter Island). Paper presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia.
- Reith, T., T. Hunt and C.P. Lipo
2000 The Evolution of Cultural Elaboration in Uncertain Environments of Polynesia. Paper presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia. .
- Lipo, C.P. and M.E. Madsen
2000 Neutrality. Invited paper presented at the “Keywords in Evolutionary Archaeology” Symposium organized by J. Terrell and J. Hart. 64th Annual Society for American Archaeology Meetings, Chicago.
- Madsen, M.E. and C.P. Lipo
1999 Fitness. Invited paper presented at the “Keywords in Evolutionary Archaeology” Symposium organized by J. Terrell and J. Hart. 64th Annual Society for American

Archaeology Meetings, Chicago.

Lipo, C.P., M.E. Madsen and M. Cannon

- 1998 When Will 'Wasteful' Behavior Occur? Paper presented at the 63rd Annual Society for American Archaeology Meetings in Seattle, WA.

Hunt, T. L., C.P. Lipo and M.E. Madsen

- 1998 The Flaws of Phylogeny as History: A Pacific Islands Case Study. Paper presented at the 63rd Annual Society for American Archaeology Meetings, Seattle.

Madsen, M.E., C.P. Lipo and M. Cannon

- 1998 Building Explanations for 'Wasteful' Behavior in the Archaeological Record. Poster presented at the 63rd Annual Society for American Archaeology Meetings, Seattle.

Cannon, M., M.E. Madsen and C.P. Lipo

- 1998 Wasteful Behavior in Evolutionary and Ecological Perspective. Paper presented at the 63rd Annual Society for American Archaeology Meetings in Seattle.

Lipo, C.P.

- 1997 Sherds, Sherds, Sherds: Mapping Patterns of Cultural Transmission in Prehistoric Populations. Paper presented at the University of Hawai'i-Manoa, Department of Anthropology, Departmental Colloquium, September 13, 1997, Honolulu.

Lipo, C.P. and M.E. Madsen

- 1997 The Method Seriation: Explaining Variability the Frequency of Types." Paper presented at the 62nd Annual Society for American Archaeology Meetings, Nashville.

Lipo, C.P. and M.E. Madsen

- 1996 Problems and Solutions in the Study of Social Organization. Paper presented at the 61st Annual Society for American Archaeology Meetings, New Orleans.

Madsen, M.E., C.P. Lipo, and T. Hunt

- 1995 Artifact Style Dynamics I: A Network Model of Cultural Transmission in Spatially Structured Populations. Paper presented at the 60th Annual Society for American Archaeology Meetings, Minneapolis.

Lipo, C. P., M.E. Madsen and T. Hunt

- 1995 Artifact Style Dynamics II: Deriving Seriation from a Network Model of Transmission. Paper presented at 60th Annual Society for American Archaeology Meetings, Minneapolis.

Hunt, T., M.E. Madsen, and C. P. Lipo

- 1995 Examining Cultural Transmission Using Frequency Seriation. Poster presented at 60th Annual Society for American Archaeology Meetings, Minneapolis.

Lipo, C. P. and M. E. Madsen

- 1993 Global Reductions of Diversity in Subsistence Systems: A Darwinian Argument for a Conservationist Anthropology. Paper presented at 1993 American Anthropological Association Meetings, Washington.

Madsen, M.E. and C.P. Lipo
1993 Units of Evolution within a Darwinian Approach to Anthropology: Definitions and Implications for the Subfields. Paper presented at the 1993 American Anthropological Association Meetings. Washington.

Lipo, C. P. and M.E. Madsen
1989 Microartifacts and Macrointerpretations. Paper presented at the 1989 South Asian Conference, Madison.

Lipo, C. P.
1989 Art, Interpretation and the Contextual Continuum. Paper presented at the 1989 Art and Art History Conference, SUNY, Binghamton.

Lipo, C. P.
1988 Toys, Ritual Items and the Socio-Ritual Continuum. Paper presented at the 1988 South Asia Conference, Madison.

Symposia Organized

Lipo, C. P. (chair)
2008 *New Approaches to Old Problems: Posters sponsored by the Journal of Evolutionary and Historical Sciences*. Poster symposium at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver, B.C.

Hunt, T. H. and Lipo, C.P. (chair)
2007 *New Research on Easter Island Prehistory*. Symposium at the 72nd Annual Meeting of the Society for American Archaeology, Austin, TX.

Lanata, Jose Luis and Lipo, C.P. (chairs)
2007 *Approaching Darwin's Bicentennial: The State of the Art in Evolutionary Archaeology*. Symposium at the 72nd Annual Meeting of the Society for American Archaeology, Austin, TX.

Hunt, T. H., Lipo, C.P. and S. Rapu (chairs)
2006 *Recent Research and Changing Views of Easter Island Prehistory*. Symposium at the 71st Annual Meeting of the Society for American Archaeology, Puerto Rico.

Lipo, C. and M.J. O'Brien (chairs)
2003 *Theoretical and Methodological Fundamentals of Applying Phylogenetics to the Archaeological Record: Parts I and II*. Symposium at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee.

Hunt, T. and C. P. Lipo (chairs)
2001 *Methodological Issues in Explaining the Evolution of Cultural Elaboration*. Symposium at the 66th Annual Meeting of the Society for American Archaeology, New Orleans.

Cochrane, E. and C.P. Lipo (chairs)
1997 *Using Seriation in Processual Archaeology*. Symposium at the 62nd Annual Meeting of the Society for American Archaeology, Nashville.

Sample Recent Public Lectures

- Easter Island Science! Glenwood Elementary School, January 13, 2021
- Unlocking the Mysteries of Easter Island- The Road to Scientific Discovery (Part 1). Palm Beach Botanical Gardens, December 15, 2020.
- Unlocking the Mysteries of Easter Island- The Road to Scientific Discovery (Part 2). Palm Beach Botanical Gardens, February 16, 2021.
- Solving the Mystery of Easter Island Statue Transportation. Kopernik Observatory, 15 March 2018.
- Evolution and Sustainability: Binghamton to Easter Island. EVoS Colloquium, 18 September 2017.
- Sustainability in Binghamton: Lessons from Easter Island. Sierra Club. Endicott, NY. 16 May 2017.
- Lessons from Easter Island. Lyceum Lecture. Vestal, NY. 17 April 2017.
- Sustainability at Binghamton: Nuthatch Hollow to Easter Island. BU Forum Lecture. 6 February 2017.
- Look to the Future (and Past): Sustainability from Binghamton to Easter Island and Back Again. Lecture in Anthropology of Climate Change. Binghamton University, Josh Reno. 18 April 2016.
- Rethinking Easter Island, Environmental Science IB class, Vestal Senior High, Vestal, NY, September 19, 2016.
- Southern Tier COARM Spring Meeting. 2016. Binghamton, NY. *Rethinking the "Mystery" of Easter Island*. 6 June 2016.
- Suds and Science. 2016. *Walking Heads: Moving the Moai of Easter Island*. Cortland, NY 26 April, 2016
- CoCo Presentation. 2015. *Computational Models for Measuring Cultural Transmission*. March 16, 2016.
- 21st Century Governance Challenges: International Perspectives on the Issues of Sustainability Peace, and Diversity. Binghamton, NY. *Easter Island's past success and contemporary peril: Surprising lessons from the world's most isolated inhabited island*. October 12, 2015.
- EVoS Presentation. 2015. *Weaving Evolutionary Explanations for the Mystery of Rapa Nui (Easter Island, Chile)*. October 19, 2015
- Binghamton University Geology Department Presentation. 2015. *New Hydrogeological and Archaeological Research on Easter Island, Chile*. October 24, 2015

Archaeological Field Work

May/June 2019	Remote sensing, aerial photography, Rapa Nui (Easter Island Chile).
June/April 2017	Remote sensing, geophysics, aerial photography, Poverty Point, Louisiana
Dec 2016	Remote sensing, geophysics, aerial photography, Poverty Point, Louisiana
January 2016	Remote sensing, field survey, aerial photography. Rapa Nui, Chile
January 2015	Geospatial Research and Mapping. NSF-REU. Rapa Nui, Chile
May-June 2014	Geospatial Research and Mapping. NSF-REU. Rapa Nui, Chile
June 2013	Geospatial Research and Mapping Program. NSF-REU. Kualoa Ranch, HI.
July 2013	Archaeological Field School, Kualoa Ranch, HI (University of Hawai'i).
Jan. 2010	Archaeological survey of prehistoric earthworks using LiDAR in northeastern Louisiana.
July 2009	Archaeological and geographic research on Easter Island (Rapa Nui,) Chile (with C. Lee and S. Wechsler). Students from CSULB (including GDEP members) and University of Hawai'i participated in a 4-week field school on

Easter Island.

July 2008 Mycaenae, Greece. Blimp photography with Paul Scotton and Christofilis Maggidis.

Nov. 2007 Geophysical Survey, Mojave Desert, Zzyzx, CA.

July 2007 Geophysical survey of Akahanga, Easter Island. Co-PI with T.L. Hunt (UH).

Jan. 2007 Geophysical Survey in Cotzumulguapa, Guatemala (El Baul and Bilbao), Co-PI with H. Neff (CSULB).

July 2006 Survey, Excavation and Geophysical Studies on Easter Island (CSULB-UH Archaeological Field School Co-PI with T.L. Hunt).

April 2006 Survey reconnaissance of newly discovered earthwork features in the lower Mississippi river valley (PI).

January 2006 Geophysical Survey (GPR and magnetometry) in Guatemala (El Baul and L Blanca), Co-PI.

July 2005 Excavation and GPR survey of Anakena, Easter Island, (CSULB-UH Field School, Co-PI).

July 2004 Cornfield Station Railroad Site, Los Angeles County, California, California State Parks, ground penetrating radar study (labor)

Apr. 2004 Geophysical exploration of Late Prehistoric Mississippian Villages, Langdon, WLA (and other sites), southeastern Missouri (PI)

Dec. 2003 Magnetometry survey of a crime scene, Torrance Police Department. (Co-PI).

June 2003 Anakena and Akahanga sites (and others), Easter Island (Rapa Nui), Chile (CSULB Field School, Co-PI)

May 2003 Sepulveda Adobe, Los Angeles County, California, California State Parks, Geophysical studies (labor)

Apr. 2003 Langdon and WLA sites (Dunklin county, Missouri), Castile Landing (St. Francis County, Arkansas) Geophysical studies (PI)

Sept. 2002 Cornfield Station Railroad Site, Los Angeles County, California, California State Parks, geophysical studies (labor)

Apr. 1997 Belle Meade, Beck, Rose Mound, and Nickel (and others), northeastern Arkansas, (P.I.)

June to Aug. 1996 Coldwater Farm sites (and others) Dunklin county, Missouri (U. Washington Field School, Teaching Assistant)

Apr to Jun 1996 Belle Meade, Beck, Rose Mound, and Nickel (and others), northeastern Arkansas, (P.I.)

Jun 1995 Dunklin county (Buffalo Slough, WLA, Coldwater Farm, Gray Horse Lake and others), Missouri, June. (labor)

Summer 1994 Intermountain Research. Carson City, Nevada. Staff Archaeologist, Carson Desert Project. Field survey of Carson Desert area in Nevada for predictive modeling project funded by the U.S. Navy. Developed GIS model of region using cultural and environmental data collected for the 9,132 sq. km. project area. Tested predictive model based on ecological assumptions of resource abundance and habitats.

Summer 1993 Southeastern New Mexico, Mogollon Village Field School, University of Washington, Teaching Assistant

1992 Woods Cultural Research, Inc. Evergreen, Colorado. Staff Archaeologist/Native American Coordinator. Coordinated Native American monitoring of the construction of the PGT/PG&E Pipeline Expansion project. Served as the link between Native American tribal groups, archaeologists, and construction. Solved logistic and communication problems.

Fall/Winter 1992 INFOTEC Research, Inc. Eugene, Oregon Field Assistant, Surveyor and

- 1990/1991 excavator on the PGT/PG&E Pipeline Expansion Project in Eastern Oregon. LSA and Associates, Inc. Pt. Richmond, California. Staff Archaeologist, Directed and assisted in archaeological excavations and surveys in northern and southern California. Established and headed the cultural resource division in the northern California office in Pt. Richmond.
- 1991 Stanford Excavations at Panakton, Greece. Assistant Field Director, Designed and implemented sampling strategy, data collection and analysis procedures of the Stanford University excavations at a Neolithic to Medieval Age hilltop fortress.
- Fall 1990 Holman and Associates San Francisco, California. Field Assistant Duties consisted of construction monitoring and burial recording and removal at a number of project locations in the San Francisco Bay area.
- 1990, 1988, 1987 University of California at Berkeley Expedition to Harappa, Pakistan. Field Supervisor. Excavations of third millennium BC urban center.
- Summer 1985 University of Wisconsin, Madison; Department of Anthropology. Field Assistant, Fred Edwards, Grant County, Wisconsin. Mississippian/Late Woodland Village.

Laboratory and Infrastructure Development

Geospatial Remote Sensing Freshman Research Immersion Program. At Binghamton University, I established a new freshman research immersion stream that focuses on geophysical studies and remote sensing. This stream is a collaboration between anthropology (Matthew Sanger), Environmental Studies and Geological Sciences (Jeff Pietras, Alex Nikulin). We received a laboratory remodel designed for instruction in remote sensing and acquired ca. \$160,000 of geophysical and remote sensing instrumentation. We hire a post-doctoral fellow to run the stream (Timothy De Smet). The stream now includes 30 undergraduates a year who get hands-on experience in remote sensing research.

Luminescence Dating Laboratory While at CSULB, I developed facilities within IIRMES necessary to conduct luminescence dating projects. Significant amount of work was required to import the luminescence reader from Denmark. In addition, substantial negotiations with the CNSM Safety Office were required to get permission for the importation of radioactive material (Sr-90, Americium-241). The lab is now completely operational and employs a graduate student (Sachiko Sakai) in a fulltime capacity and a set of undergraduate and graduate students in a part time capacity. It is the only laboratory of its kind in California and represents a unique and prominent facility at CSULB.

UNIVERSITY RESEARCH CENTER INVOLVEMENT

- Evolutionary Sciences (EVoS), <https://www.binghamton.edu/evos/> Steering Committee member.
- Center for Integrated Watershed Studies (CIWS), <https://www.binghamton.edu/centers/ciws/>, member
- Center for Imaging, Acoustics and Perception Science (CIAPS), member
- Center for Collective Dynamics of Complex Systems (CoCo), <http://coco.binghamton.edu>, member

UNIVERSITY AND COMMUNITY SERVICE ACTIVITIES

University Service Activities

- 2020-Present Co-Chair, Carnegie Classification Initiative.
- 2015-Present Senator, Binghamton University Faculty Senate.

- 2016-2019 Chair: *Committee on the University Environment (CUE)*, Binghamton University. This committee oversees use of the natural landscapes of the campus.
- 2018-Present Executive Committee, Department of Anthropology
- 2017-Present Chair, *Steering Committee: Sustainable Communities Transdisciplinary Areas of Excellence*, Binghamton University
- 2017-Present Member: *Advisory Committee for Scholarship and Research (ACSR)*. This committee reviews organized research centers, new proposals for major instrumentation, interdisciplinary grant proposal, strategic research priorities, etc.
- 2015-2016 Steering Committee Member, *Sustainable Communities Transdisciplinary Areas of Excellence*, Binghamton University
- 2015-Present *Campus Sustainability/Campus Climate Committee*, Binghamton University.
- 2017 *Alpenglow Editorial Board*. Alpenglow is an undergraduate research publication for Binghamton University.
- 2015/2016 *Harpur College Faculty Advisory Committee*, Binghamton University
- 2016-Present *Nuthatch Hollow "Living Building" Advisory Committee*, Binghamton University.
- 2015/2016 *Hiring Committee Member, Ecology of Climate Change*, Department of Biological Sciences, Binghamton University.
- Spring 2009 *CSULB Judge for Undergraduate Paper Competition*.
- Fall 2017 *CSULB - CLA Program Evaluation Committee: Internal Review of the Department of Geography, CSULB*
- 2008-2010 *Academic Senate technology advisor committee*
- 2007 – 2008 *Organized and Directed CLA Student Research Poster Showcase*.
- 2003 to 2015 *IIRMES Board of Directors*
- 2009 to 2015 *CSULB CLA Fund Raising Activities*
- 2005 to 2015 *NAGPRA Collections Coordinator*

Service to the Academic Community

- Peer Reviewer for Funding Agencies
 - National Science Foundation (NFS)
 - National Geographic Society (NGS)
 - National Institute for Health (NIH)
- Peer Reviewer for Journals and other Publications:
 - *Antiquity*
 - *American Antiquity*
 - *Current Anthropology*
 - *Journal of Anthropological Archaeology*
 - *Geoarchaeology*
 - *Human Ecology*
 - *Journal of Anthropological Research*
 - *Journal of Archaeological Science*
 - *Letters in Biology*
 - *Journal of Human Evolution*
 - *Journal of Island and Coastal Archaeology*
 - *University of California Berkeley Press*