

# Lucas R. M. Johnson, PhD, RPA

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## CURRENT POSITION

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2024-Present Cultural Resources Program Manager, Nellis Air Force Base. GS-12.

## EDUCATION

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2016 Ph.D. in Anthropology, University of Florida, Gainesville

- *Toward an Itinerary of Stone: Investigating the Moving, Crafting, and Use of Obsidian from Caracol, Belize.*

2008 M.A. in Anthropology, University of Central Florida, Orlando

- *Tools of a Local Economy: Standardization and Function Among Small Chert Tools from Caracol, Belize.*

2008 Certificate in Maya Studies, University of Central Florida, Orlando

2001 B.A. in Anthropology, University of Central Florida, Orlando

1999 A.A in General Education. Indian River Community College, Fort Pierce, Florida

## AWARDS, APPOINTMENTS, CERTIFACTES, TRAINING

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2023 CPR and First Aid

2023 PGE Fire Safety

2021-2023 Member at Large, Archaeological Division of the American Anthropological Association

2021 California BLM, Field Director (Cultural Resource Use Permit CA-21-18; Far Western; Statewide, 2021-2024)

2021 Co-Organizer of the *International Obsidian Conference* with Kyle P. Freund and Nicholas Tripcevich. A Virtual Event.

2020-present Secretary-Treasurer for *International Association for Obsidian Studies* (IAOS).

2017 Governor's Historic Preservation Award for *Salvaging the Past: A Case Study in Archaeological Inquiry.*

2013-2015 *Visiting Student Scholar*, University of California, Berkeley Archaeological Research Facility, Berkeley, California

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## PROFESSIONAL ORGANIZATIONS AND WEBSITES

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- Society for American Archaeology
- Register of Professional Archaeologists
- Nevada Archaeological Association
- International Association of Obsidian Studies
- <https://florida.academia.edu/LucasRMJohnson>
- <https://www.researchgate.net/profile/Lucas-Martindale-Johnson>

## PROFESSIONAL EXPERIENCE

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- 2024-present Cultural Resources Program Manager, Nellis Air Force Base.
- 2018-2024 *Principal Investigator and XRF Lab Codirector*. Far Western Anthropological Research Group, Inc., Davis. Primary role was as lithic and XRF analyst as part of the laboratory team. This role includes cataloging dozens of project collections. Additional roles include survey, excavate, record, and/or monitor cultural resources of California, Nevada, and Utah both historic and prehistoric archaeological sites with the goal of impact mitigation and bringing contractors or associated stakeholders into compliance with Section 106 or other related regulations. All these records included meta-data associated with each resource ID. Experience handling human remains.
- 2022-23 *Field Director*, Far Western, Utah Testing and Training Range, Excavation
- 2022 *Crew Chief*, Far Western, Thacker Data Recovery
- 2020-present *Crew Chief*, Far Western. 18k Survey Yuma Arizona
- 2020-present *Senior Archaeologist and Crew Chief*. Far Western. Twentynine Palms (MCAGCC) Cultural Resources Survey.
- 2019-2020 *Senior Archaeologist*. Far Western. Twentynine Palms (MCAGCC) Curation Facility Inventory. Co-director of 100 percent inventory of all curated cultural objects
- 2019-2020 *Senior Archaeologist*. Far Western, Shasta National Forest Cultural Resource Work 2018 Fires Project, Shasta and Trinity Counties, California; artifact analysis, for GemorphIS.
- 2018-2020 *Senior Archaeologist*. Far Western, Feather River Sutter County Report, Sutter County, California; artifact analysis, for ICF Jones & Stokes, Inc.
- 2017-2019 *Senior Archaeologist*. Far Western, Eastlake Elementary Safe Routes to Schools and Community Development Block Grant, Clearlake Oaks, Lake County, California; artifact analysis of data recovery for site P-17-002480, for County of Lake Public Works Department.
- 2016-2020 *Senior Archaeologist*. Far Western, Sunol Yard Long-term Improvement Project (SFPUC-2), Alameda County, California; artifact analysis, for Baseline Environmental Consulting, on behalf of San Francisco Public Utilities Commission.
- 2016-2019 *Senior Archaeologist*. Far Western, Hill Air Force Base Wildcat Mountain, Utah Test and Training Range-South, Tooele County, Utah; artifact analysis, for University of Montana.
- 2016-2018 *Senior Archaeologist*. Far Western, Flood Damage Reduction and Ecological Restoration Area, Glenn County, California; monitoring, research design, testing and evaluation, for US Army Corps of Engineers.

- 2015-2018 *Senior Archaeologist*. Far Western, Hill Air Force Base, Utah Test and Training Range-South, Tooele County, Utah; artifact analysis, for University of Montana.
- 2015-2018 *Senior Archaeologist*. Far Western, Ruby Pipeline Project (Kinder Morgan), Elko, Humboldt, and Washoe Counties, Nevada; artifact analysis, for Ruby Pipeline LLC (Kinder Morgan).
- 2015-2017 *Senior Archaeologist*. Far Western, Hycroft Mine Study Area Phase 1 Data Recovery, Humboldt and Pershing Counties, Nevada; artifact analysis, for Enviroscientists, Inc.
- 2015-2017 *Senior Archaeologist*. Far Western, Hill Air Force Base Utah Test and Training Range-North, Tooele County, Utah, Tooele County, Utah; artifact analysis, for Baer Engineering.
- 2015-2016 *Senior Archaeologist*. Far Western, Hycroft Mine Study Area Phase 1 Treatment, Humboldt and Pershing Counties, Nevada; research design, for Allied Nevada Gold Corp.
- 2015-2016 *Senior Archaeologist*. Far Western, Tulucay Bridge Repair Test Report, Napa County, California; preparation of report appendix, for CH2M Hill, on behalf of California Department of Transportation, District 4.
- 2015-2016 *Senior Archaeologist*. Far Western, PG&E Moss Landing Bus Upgrade and Automation Project, Monterey County, California; archaeological monitoring, for Insignia Environmental.
- 2015-2016 *Senior Archaeologist*. Far Western, PG&E Gas Pipeline Terminal, Milpitas, Santa Clara County, California; archaeological monitoring and evaluation, for Pacific Gas & Electric.
- 2015-2016 *Senior Archaeologist*. Far Western, Naval Air Weapons Station China Lake, North and South Ranges, Inyo, Kern, and San Bernardino Counties, California; archaeological Survey of 12,982 acres, for Naval Facilities Engineering Command, Southwest.
- 2015 *Senior Archaeologist*. Far Western, PG&E Moss Landing Tower Failure, Monterey County, California; artifact analysis, for Pacific Gas & Electric Company.
- 2015 *Senior Archaeologist*. Far Western, Marine Corps Base Camp Pendleton, San Diego County, California; testing and evaluation of nine sites, for Naval Facilities Engineering Command, Southwest.
- 2015 *Senior Archaeologist*. Far Western, P-1045 North/South Potable Water Pipeline Project, Marine Corps Base Camp Pendleton, San Diego County, California; data recovery at CA-SDI-812/H, SDI-4538, and SDI-14006H, for Naval Facilities Engineering Command, Southwest.
- 2015 *Senior Archaeologist*. Far Western, Marine Corps Base Camp Pendleton, San Diego County, California; 2,542-acre survey, for Naval Facilities Engineering Command, Southwest.
- 2014-2015 *Senior Archaeologist*. Far Western, PG&E Hydrostatic Test Segments 2014-2015, various counties, California; cultural resources studies, for Pacific Gas & Electric Company.
- 2013-2015 *Field Technician*. Far Western Anthropological Research Group, Inc., Davis, California. Surveyed, excavated, recorded, and/or monitored cultural resources of California historic-era and prehistoric archaeological sites with the goal of impact mitigation and bringing contractors or associated stakeholders into compliance with Section 106 or other related regulations. Established or updated site records for evaluation and preservation. Worked in collaboration with Native American Most Likely Descendants to determine best

practices for cultural resource protection and management. Used archival and curation standards during cataloging of material culture from cultural sites. Used ArcGIS software to digitize locations of cultural resources for statewide data project. All these records included meta-data associated with each resource ID. Experienced with excavation, documentation, removal, and curation of interments.

- 2012-2018 *Digital Archives Coordinator*. Caracol Archaeological Project. Caracol, Belize. The Caracol Archaeological Digitizing and On-line Archives Project, Caracol, Belize. Initiated digital archiving project of 32 years of over 20,000 excavation and survey paper records. Created and implemented digital contextual and relational Microsoft Access database with GIS compatibility which makes data entry more efficient and increases data integrity. Established standards for data archiving and data storage. Created and designed a Microsoft SharePoint Online SharePoint site for interactive data entry, storage, and queries. This database system allows for multiple editors and simultaneous syncing of data and files by multiple administrators. Long-term goals of this archive include student research projects, more transparent dissemination to public stakeholders, as well as creative and inexpensive methods for data storage, maintenance, and report production for cultural interpretations.
- 2011-2013 *Co-Curator/Project Photographer/Artifact Illustrator*. University of Florida. Gainesville, Florida. Cerros Archaeological Project, Florida Museum of Natural History, Gainesville, Florida. Assisted in implementing archival standards on a recently acquired collection funded by a grant from the National Endowment for the Humanities. Inventoried collections and made object status reports, reassembled pottery vessels using standard curation techniques and materials, photographed pottery vessels and other small artifacts for an online digital database. Coordinated, planned, and implemented an interpretative museum exhibit entitled: “An Early Maya City by the Sea: Daily Life and Ritual at Cerros, Belize” at the Florida Museum of Natural History.
- 2012 *Cultural Resources Monitor*. William Self and Associates, Orinda, California. Webcore and Obayashi Transbay Terminal construction, San Francisco, California. Monitored culturally sensitive areas within project boundary and worked with Native American MLDs to establish and implement best practices in the discovery, recording, and preservation of cultural resources.
- 2009-2010 *GIS Technician*. Far Western Anthropological Research Group, Inc., Davis, California. Used ArcGIS software to digitize locations of cultural resources for statewide data project. All records included meta-data associated with each resource ID.
- 2002-2005 *Field Technician*. Far Western Anthropological Research Group, Inc., Davis, California.
- 2004 *Graphic Illustrator*. Lake County Historic Museum, Lakeport, California. Illustrated using ArcGIS and Adobe illustrator software, various chronological phases of the Clear Lake basin’s fault line activity and landscape changes to produce an interpretative series of images for a museum exhibit.

## **PUBLICATIONS**

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- Under review* Analysis of Flaked and Groundstone from Aventura, Belize. In *Household Resiliency at Aventura: Life in an Ancestral Maya City*, edited by Cynthia Robin. Colorado Press, Boulder
- Under review* Database Construction for Obsidian Studies. *Sourcing Obsidian*. Edited by F.-X. Le Bourdonnec, M. S. Shackley & M. Orange. Springer Press. With Kyle P. Freund

- In Press* Household Crafting in the Maya City of Palenque, Chiapas, Mexico. With Lisa. M. Johnson and Arianna Campiani. Invited submission to Latin American Antiquity Reports.
- In press* Reintroducing Tule Springs: Obsidian Sourcing of the Initial Find and a Case Study on Archaeological Value at the Intersection of Science and Public Interest. Submitted to American Antiquity.
- In press* Examining Flaked Stone from Caracol, Belize at the Urban Scale. In *The Urban Question: Interdisciplinary Approaches to Investigating the Ancient Mesoamerican City*. Edited by Lisa M. Johnson and Arianna Campiani. University of Utah Press. With Adrian Z. Chase.
- In press* An Interpretive Framework and Description of Ritualized Obsidian from Caracol, Belize. With Arlen F. Chase and Diane Z. Chase. In *Crafting Celestial Fire in Classic Mesoamerica: The Technologies of Ceremonial Chipped-Stones*. Edited by Z. Hruby. University of Colorado Press, Boulder.
- 2024 A Revised Method for Confidently Sourcing Small Obsidian Artifacts. With Kyle P. Freund, M. Kathy Davis, and Daron Duke. For the International Obsidian Conference proceedings published through the Archaeological Research Facility, University of California, Berkeley.
- 2024 Indigenous Regional Acquisition Patterns of Large Ceremonial Mortars in the San Francisco Bay-Delta Area: Geochemical Insights from the Application of XRF Sourcing Technology. Submitted to the Journal of California and Great Basin Anthropology.
- 2023 The Pre-Aksumite Period: Indigenous Origins and Development in the Horn of Africa. *Azania: Archaeological Research in Africa*. DOI: 10.1080/0067270X.2023.2236484. With A. Catherine D'Andrea, Lynn Welton, Andrea Manzo, Helina S. Woldekiros, Steven A. Brandt, Alemseged Beldados, Elizabeth A. Peterson, Laurie A. Nixon-Darcus, Michela Gaudiello, Shannon R. Wood, Habtamu Mekonnen, Stephen Batiuk, Yemane Meresa, Abel Ruiz-Giralt, Carla Lancelotti, and Abebe Mengistu Taffere
- 2022 The Character and Use of the Ferguson Wash Obsidian Source in Eastern Great Basin Prehistory. *Journal of California and Great Basin Archaeology*. With Kyle P. Freund, Daron Duke, and D. Craig Young
- 2022 Reproducibility and Validity of Portable ED-XRF Instruments: A Comparison of Spectral and Quantitative Results from Belizean and Ethiopian Obsidian. In *Advances in Portable X-Ray Fluorescence Spectrometry*. Royal Society of Chemistry. Edited by B. Lee Drake. With B. Lee Drake, Steven A. Brandt, Keith Prufer, and Arlen F. Chase
- 2021 Evaluating Obsidian Calibration Sets with Portable X-Ray Fluorescence (ED-XRF) Instruments. *Journal of Archaeological Sciences Reports* 39. With Jefferey R. Ferguson, Kyle P. Freund, Lee Drake, and Daron Duke
- 2021 Sealing with Stone: Assessing an Assemblage of Lithic Debitage from a Funerary Context at the Lowland Maya City of Caracol, Belize. *Latin American Antiquity* 32(1):39-56. With Lisa. M. Johnson
- 2020 Exchange Systems in Late Postclassic Mesoamerica: Comparing Open and Restricted Markets at Tlaxcallan, Mexico, and Santa Rita Corozal, Belize. *Latin American Antiquity*

- 31(4):780-799. With Marc D. Marino, Lane F. Fargher, Richard E. Blanton, and Verenice Y. Heredia Espinoza.
- 2020 *Protohistoric Village Organization and Territorial Maintenance: The Archaeology of Sii Túupentak (CA-ALA-565/H) in the San Francisco Bay Area*. The Center for Archaeological Research at Davis, No. 20. With Byrd, Brian F. et al.
- 2020 *Handheld ED-XRF Analysis of Obsidian from the Classic Maya City of Palenque, Chiapas, Mexico*. IAOS Bulletin No. 64. With Lisa M. Johnson, Jordon Kobylt and Cheyenne Laux.
- 2018 *Obsidian Macro-Core from Belize*. IOAS Bulletin No. 59. With Melissa Badillo, Nicholas Hamilton, and Silvia Batty.
- 2016 *Fundamentals of Digitally Imaging Artifacts*. IOAS Bulletin No. 55. With Nicole Birney and Kathleen Montgomery
- 2016 Postclassic Tool Production at Santa Rita Corozal: Implications for Domestic Craft Production and Regional Exchange of Flaked Stone. In *Perspectives on the Ancient Maya of Chetumal Bay*, edited by Debra S. Walker, pp. 251-263. University of Florida Press, Gainesville, Florida. With Marc D. Marino and Nathan J. Meissner
- 2015 From Vision to Cosmovision: Memory and the Senses in the Creation of Maya Ritual Space. *Cambridge Review of Archaeology* 30(1):73-82. With Lisa M. Johnson and James Crandall
- 2015 Articulating with the Broader Economy: Chert Pressure Blade Technology in a Caracol Residential Group. *Research Reports in Belizean Archaeology* 12:77-87. With Maureen Carpenter, Arlen F. Chase and Diane Z. Chase
- 2014 Standardized Lithic Technology and Crafting at the “Gateway Group” from Caracol, Belize: Implications for Maya Household Archaeology. *Research Reports in Belizean Archaeology* 11:81–94.
- 2010-2013 Season Report about Pre-Aksumite Lithic Technology from Mezber, Ethiopia. In *Early State Development in Northern Ethiopia, Eastern Tigray Archaeological Project: Report to the ARCCH*. Addis Ababa. With Steven A. Brandt
- 2008 *Tools of a Local Economy: Standardization and Function among Small Chert Tools from Caracol, Belize*, Master’s Thesis, Department of Anthropology, University of Central Florida, Orlando.

#### TECHNICAL REPORTS

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- 2016-2024 ED-XRF technical reports for multiple obsidian and fine-grained volcanic studies in western US.
- 2022 *Far Western X-Ray Fluorescence Analysis Report (2022-03)*. Far Western Anthropological Research Group, Inc., Henderson, Nevada. M. Kathleen Davis.
- 2019 *Protohistoric Village Organization and Territorial Maintenance: Archaeological Data Recovery at Sii Túupentak (CA-ALA-565/H), Sunol Long-term Improvements Project, Alameda County, California*. Brian F. Byrd, Laurel Engbring, Michael Darcangelo, Allika Ruby
- 2019 *Archaeological Data Recovery at Site CA-SON-347 for State Route 1 Emergency Storm Repairs at Gleason Beach, Sonoma County, California*. Contributions to report for Caltrans District 4. Philip Kaijankoski

- 2019 *Phase 2 Testing and Evaluation of Prehistoric Archaeological Site FS 05-06-51-233 (CA-PLU-3484) Lassen National Forest, Plumas County, California.* Erik P. Martin and Daron Duke
- 2018 *Archaic Archaeology of the Black Rock: Perspectives from Evaluations of Loci D and E at Trego Hot Springs (26Pe118), Pershing County, Nevada.* Byerly, Ryan M., and D. Craig Young
- 2018 *A Historic Context for Paleoindian Archaeology in Lincoln County, Nevada.* Duke, Daron, and D. Craig Young
- 2016 *Salvaging the Past – A Case Study in Archaeology Inquiry.* Ruby, Allika, Pat Mikkelsen, Philip Kajankoski, Eric Wohlgemuth, and William Hildebrandt
- 2016 *Extended Phase I Investigations at CA-MEN-3303/H, on the Mendocino Headlands, Mendocino County, California.* Mikkelsen, Patricia J., John Berg, Greg White, and Lucas Martindale Johnson
- 2017 *Archaeological Test Evaluation and Data Recovery in Support of Geotechnical Boring at CA-SDI-10731 and CA-SDI-21453 for the Red Beach Operations Access Points Project (P-159), Marine Corps Base Camp Pendleton, San Diego County, California.* Byrd, Brian F., and Michael Darcangelo
- 2016 *Phase II Studies at Site CA-KER-9934, for the Kern 46 Segment 4A Revalidation Project, Kern County, California.* King, Jerome H., D. Craig Young, and Patricia Mikkelsen
- 2016 *Damage Assessment, National Register Eligibility Evaluation, and Limited Data Recovery at CA-SDI-4538, -5139, -5145, -13325, -15254, and -15832, Marine Corps Base Camp Pendleton, San Diego County, California.* Rich, Michelle, Andrew Ugan, and Brian F. Byrd
- 2015 *Archaeological Survey of 12,982 Acres of the Naval Air Weapons Station China Lake, North and South Ranges, Inyo, Kern, and San Bernardino Counties, California.* Ugan, Andrew, and Jeffrey Rosenthal
- 2015 *National Register Eligibility Evaluation of CA-SDI-10690, -14598, -14714, -15837, -21533, and -21534, Marine Corps Base Camp Pendleton, San Diego County, California.* Ugan, Andrew, and Brian F. Byrd
- 2015 *Testing of 21 Archaeological Sites on the Marine Corps Mountain Warfare Training Center near Bridgeport, Mono County, California.* Stevens, Nathan, Mike Lenzi, and Vickie Clay
- 2015 *Cultural Resources Inventory of 2,542 Acres at Marine Corps Base Camp Pendleton, San Diego County, California.* Higgins, Courtney, and Michael Darcangelo

## PRESENTATIONS

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- 2025 *At the Confluence of Local and Regional: Domestic Lithic Use from Altar de Sacrificios and its Surrounding Region.* Invited paper for session: Repositioning Altar de Sacrificios on the Ancient Maya Landscape with Jessica L. Munson. Paper presented at the Society for American Archaeology, Denver, Co.
- 2025 *FGV Sources of the Great Salt Lake Desert, Utah.* Poster presented at the Society for American Archaeology, Denver, Co. with Kyle P. Freund, Daron Duke, D. Craig Young, and Jennifer DeGraffenried.

- 2024 *Household Crafting in the Maya City of Palenque, Chiapas, Mexico*. Paper presented at the Society for American Archaeology, New Orleans, La. with Lisa M. Johnson.
- 2024 *Analysis of the Fenley Hunter Obsidian Flake from the Tule Springs Archaeological Site, Las Vegas, NV*. Poster presented at the Society for American Archaeology, New Orleans, La. with Kyle P. Freund, Daron Duke, Erin Eichenburg, Lauren Parry, and David Hurst Thomas.
- 2024 *Imports and Outcrops: Obsidian Procurement and the Evolution of Homo Sapiens Behavior in the Late Pleistocene Horn of Africa*. Paper presented at the 30th Annual Meeting of the European Association of Archaeologists in Rome, Italy with Benjamin D. Smith and Steven A. Brandt.
- 2023 *Collaborative X-ray Fluorescence Sourcing and Changes in Lithic Resource Use Through Time on the Old River Bed Delta*. Paper present at 38<sup>th</sup> Great Basin Anthropological Conference with Daron Duke and Jennifer DeGraffenried
- 2023 *Geochemical Analysis of Felsite Quarries at Pluvial Lake Mojave*. Paper present at 38<sup>th</sup> Great Basin Anthropological Conference with Alexandra Jonassen, Edward Knell, and David Schroeder.
- 2023 *Changing Adaptations along the Shores of Owens Lake: Artifact Assemblages from the Olancha-Cartago Project*. Paper present at 38<sup>th</sup> Great Basin Anthropological Conference with William Hildebrandt and Katie Hanrahan.
- 2023 *Preliminary Analysis of Flaked and Ground Stone from Aventura, Belize*. Paper presented at the Society for American Archaeology, Portland, Or. Invited session.
- 2023 *Household Diversity in a Palenque Neighborhood: Preliminary Consideration*. Paper presented at the Society for American Archaeology, Portland, Or. With Lisa Johnson, Arianna Campiani, Rodrigo Liendo Stuardo, and Rosemary Joyce.
- 2023 *Imports and Outcrops: Characterizing the Baantu Obsidian Source and Artifacts from Mochena Borago Rochshelter, Wolaita, Ethiopia, Using Portable X-Ray Fluorescence*. Paper presented at the Society for American Archaeology. With Benjamin Smith and Steven Brandt.
- 2022 *XRF Fundamentals*. Invited webinar for the Society of American Archaeology.
- 2022 *Economic Engines of pre-Columbian Urbanism*. Invited presentation. Comprender el Urbanismo Antiquo: Forma Urbana, Planeacion de Sito y Vida Cotidiana en la Ciudad Maya del Periodo Clasico. Sapienza University of Roma.
- 2022 *What is an Obsidian Source? Implications for Provenience Studies*. Paper presented at the 2022 SAA in Chicago with Kyle P. Freund, D. Craig Young, and Daron Duke
- 2022 *Very Small Rocks: Exploring Artifact Size Limits in Trace-Element Analysis of Obsidian Flaked Stone with Portable XRF*. Paper presented at the 2022 SAA in Chicago with M. Kathy Davis, Daron Duke, and Kyle P. Freund.
- 2021 *The Archaeological Exploitation of Ferguson Wash Obsidian in Eastern Great Basin Prehistory*. Poster presented at the 2021 Great Basin Anthropological Conference, Las Vegas. With Kyle P. Freund, Daron Duke, and D. Craig Young.
- 2021 *Portable XRF Analysis of Owens Valley Pottery*. Poster presented at the 2021 Great Basin Anthropological Conference, Las Vegas. With Alexxandria Martinez, Jefferey R. Ferguson, and Jelmer Eerkens.

- 2021 *Confidence in Sourcing Small Obsidian Objects: Applying the Mahalanobis Distance Statistic in Ternary Diagrams with R*. Paper presented at the 2021 International Obsidian Conference. With Kyle P. Freund, M. Kathy Davis, and Daron Duke.
- 2021 *Examining Flaked Stone from Caracol, Belize at the Urban Scale*. Invited paper presentation within the SAA session *The Urban Question: Interdisciplinary Approaches to Investigating the Ancient Mesoamerican City*. With Adrian Z. Chase.
- 2021 Manufacturing Costs of Long Pestles in Late Holocene Bay Area: Results from Replicative Experiments. Poster presented at the 2021 SAA. With Peiqi Zhang, Caleb Chen, Christopher Beckman, Daniel Goring, Meredith Carlson, and Tammy Buonasera.
- 2021 *Very Small Rocks: Exploring Specimen Size Limits in Trace-Element Analysis of Obsidian Flaked Stone with Portable XRF*. Poster presented at the 2021 SAA. With M. Kathleen Davis, Elsa Carpenter, and Daron Duke.
- 2019 *XRF in Archaeology: Overview of Fundamental Concepts and Case Studies*. Invited webinar for the Society for American Archaeology presented online in October.
- 2019 *An Interpretive Framework and Description of Ritualized Obsidian from Caracol, Belize*. With Diane and Arlen Chase. Paper presented at the 84th Annual Meeting Society for American Archaeology, Albuquerque, NM.
- 2018 *Examining Portable Tracer Laboratory ED-XRF Inter-Instrument Variation: A Collaborative Project Using a Large Assemblage from the Great Basin*. With Daron Duke, Bruce Kaiser, Jennifer DeGraffenried, and Nate Nelson. Poster presented at the 83rd Annual Meeting Society for American Archaeology, Washington, D.C.
- 2017 *Temporal and Spatial Variability in Pre-Aksumite Lithics from Mezber, Northwest Ethiopia: Complex Lithics for a Complex Society*. With Steve A. Brandt and Abebe Mengistu Taffere. Paper presented at the 82nd Annual Meeting Society for American Archaeology, Vancouver, Canada
- 2016 *A Materialists Perspective on Ancient Maya Flaked Stone Technology: Chert Blade-Core Artifacts from Caracol, Belize*. With Lisa M. Johnson. Paper presented at 81st Annual Meeting Society for American Archaeology, Orlando, Florida.
- 2016 *Source Variability and Technological Variation of Domestic Lithic Production at Santa Rita Corozal, Belize, during the Late Postclassic Period*. With Marc Marino and Nathan Meissner. Paper presented at 81st Annual Meeting Society for American Archaeology, Orlando, Florida.
- 2016 *Using pXRF to Test for the Market Exchange of Obsidian at Postclassic Santa Rita Corozal, Belize*. With Max Seidita. Poster presented at 81st Annual Meeting Society for American Archaeology, Orlando, Florida.
- 2015 *Preliminary Interpretations of the Reduction Technology and Distribution of Obsidian Cores at Caracol, Belize: Learning to Reconsider Maya "Eccentrics" and Social Relations of Ritual Objects*. Paper presented at 80th Annual Meeting Society for American Archaeology, San Francisco, California.
- 2014 *'Producer-Consumer' Revisited: A Postclassic View of Stone Tool Production from Santa Rita Corozal, Belize*. With Marc D. Marino, Nathan Meissner. Paper presented at 79th Annual Meeting Society for American Archaeology, Austin, Texas.
- 2014 *Lithic Raw Material Acquisition, Ethnicity and Source/Settlement Location: An Ethnoarchaeological study of Ethiopian Craftspeople*. With Steven A. Brandt, Jeffrey R.

- Ferguson. Paper presented at 79th Annual Meeting Society for American Archaeology, Austin, Texas.
- 2013 *Standardized Lithic Technology and Crafting at the 'Gateway Group' from Caracol, Belize: Implications for Maya Household Archaeology*. Paper presented at Research Reports for Belizean Archaeology, Belize Archaeological Symposium in San Ignacio, Belize.
- 2013 *A Comparative Study of Multiple Bruker Tracer III Portable XRF Calibrated Instruments using Identical Analytical and Operational Procedures: Implications for Past, Present and Future Obsidian Studies*. With Steven A. Brandt and Arlen F. Chase. Paper presented at 78th Annual Meeting Society for American Archaeology, Honolulu, Hawaii.
- 2012 *Pre-Aksumite Lithic Technology and Community Organization at Mezber, Ethiopia: Implications for Early State Formation in the Northern Horn of Africa*. With Steven A. Brandt. Paper presented at 21st Biennial Conference Society of Africanist Archaeologists, Toronto, Canada.
- 2011 *Lithics, Community Organization, and Early State Development during the Pre-Aksumite*. With Steven A. Brandt. Paper presented at 76th Annual Meeting Society for American Archaeology, Sacramento, California.
- 2011 *Stoking the Funeral Fire: The Use of Green Obsidian during Cremation at Caracol, Belize*. With Arlen F. Chase and Diane Z. Chase. Poster presented at 76th Annual Meeting Society for American Archaeology, Sacramento, California.

#### **ACADEMIC POSITIONS**

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- 2018 *Lecturer*. University of California Berkeley. Anthropology of Race, Ethnicity, and Identity
- 2017 *Adjunct Professor*. Contra Costa Community College. Physical Anthropology Lab
- 2010-2012 *Graduate Teaching Assistant*. University of Florida. Human Sex and Culture.
- 2010 *Graduate Teaching Assistant*. University of Florida. Introduction to World Archaeology.
- 2010 *Graduate Teaching Assistant*. University of Florida. Development of World Civilization.
- 2009 *Graduate Teaching Assistant*. University of Florida. Language and Culture.
- 2008 *Instructor of Record*. University of Central Florida. Maya Archaeology.
- 2008 *Graduate Teaching Assistant*. University of Central Florida. Introduction to Anthropology.
- 2008 *Research Assistant/Laboratory Instructor*. University of Central Florida.
- 2007 *Research Assistant/Laboratory Instructor*. University of Central Florida.
- 2007 *Graduate Teaching Assistant*. University of Central Florida. Human Species; Sex, Gender, and Culture.
- 2007 *Research Assistant/Laboratory Instructor*. University of Central Florida.
- 2007 *Graduate Teaching Assistant*. University of Central Florida. The Human Species.
- 2007 *Graduate Teaching Assistant*. University of Central Florida. Sex, Gender, and Culture.
- 2007 *Graduate Teaching Assistant*. University of Central Florida. Human Origins.

- 2006 *Graduate Teaching Assistant*. University of Central Florida. Introduction to Anthropology.
- 2006 *Graduate Teaching Assistant*. University of Central Florida. The Human Species.
- 2006 *Graduate Teaching Assistant*. University of Central Florida. Sex, Gender, and Culture.

### **GRANTS**

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- 2016 NSF DDIG #1556260. Award amount \$7,045. Titled: Doctoral Dissertation Improvement Grant: Tool Production and Exchange in A Traditional Society. PI, Steven A. Brandt. Co-PI, Lucas R. Martindale Johnson.
- 2013 Graduate research travel grant to Belize. Award amount \$5,000. Graduate School, University of Florida.
- 2010 Graduate research travel grant to Ethiopia. Award amount \$1,000. Graduate School, University of Florida.

### **SYNERGISTIC ACTIVITIES: INVITED LECTURES, MENTORING, AND WORKSHOPS**

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- 2024 Invited Workshop on XRF Technology. Nevada Archaeological Association.
- 2021 Co-organizer of the International Obsidian Conference (IOC). A virtual three-day event with dozens of participants discussing archaeology and geology of obsidian research.
- 2019 Invited Lecture, *XRF in Archaeology: From Physics to Anthropological Interpretation*, UC Berkeley in Materials Analysis and Scientific Methods in Anthropology.
- 2018 Internship supervision, XRF and Flint Knapping. Far Western Anthropological Group
- 2017 Mesoamerican Lithic Technology Workshop. Caracol, Belize
- 2016 Archaeological Illustration Workshop. University of California, Berkeley.
- 2016 Social Implications for the Study of Obsidian in Mesoamerica. Invited lecture at Sacramento State University.
- 2015 Portable XRF Calibration Workshop. University of California, Berkeley.
- 2015 Maya Obsidian Blade Technology In-Field Workshop. Caracol, Belize.
- 2014 Co-Supervisor of undergraduate research apprentice project (URAP). University of California, Berkeley with Rosemary A. Joyce.
- 2014 Portable XRF Training Workshop for Undergraduate Researchers. University of California, Berkeley.
- 2013 Archaeological Illustration Workshop. University of California, Berkeley Archaeological Research Facility.
- 2011 Making Archaeology Relevant in the Present and Future. Invited lecture. Archaeological Institute of America. Orlando, Florida.
- 2009 Maya Ceramics: Art, Culture, and Archaeology. Invited lecture. Austin Community College, Austin, Texas.
- 2008 Summary of the Living Primates. Invited lecture. University of Central Florida, Orlando, Florida.

- 2007 Bioarchaeology at the Dakhleh Oasis, Egypt: Methods and Finds. Invited lecture. University of Central Florida, Orlando, Florida.
- 2007 High Altitude Archaeology and Culture in Pambamarca, Ecuador. Invited lecture. Oviedo High School, Oviedo, Florida.
- 2006 Archaeological Remains and Rise of Complex Societies. Invited lecture. University of Central Florida, Orlando, Florida.
- 2006 Mapping and Infield Recordation Methods. Invited lecture and in-field workshop. University of Central Florida, Orlando, Florida.
- 2006 An Overview of Archaeology. Invited lecture. Beachland Elementary School, Vero Beach, Florida.
- 2006 An Archaeological Dialogue. Invited lecture. Banyan Tree Elementary, Delray Beach, Florida.

### **PROFESSIONAL EXPERIENCE AND MUSEUM COLLABORATION**

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- 2012-2017 *Digital Archives Consultant*. Caracol Archaeological Project. Caracol, Belize
- 2011-2013 *Co-Curator/Project Photographer/Artifact Illustrator* for “An Early Maya City by the Sea: Daily Life and Ritual at Cerros, Belize” a Florida Museum of Natural History Exhibit at the University of Florida. Gainesville, Florida.
- 2012-2013 *Assistant Director of the Archaeology Lab*. University of Central Florida.
- 2009-2010 *GIS Technician*. Far Western Anthropological Research Group, Inc., Davis, California.
- 2006-2008 *Assistant Director of the Archaeology Lab*. University of Central Florida.

### **FIELD RESEARCH EXPERIENCE**

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- 2023 Lithic Analyst. PAALS
- 2022-2023 Lithic Analyst. Aventura Archaeological Project
- 2019-Present Senior Project Assistant and Lithic Analyst. Proyecto Reginal de Palenque
- 2000-Present *Senior Staff and Project Illustrator*. Caracol Archaeological Project, Belize.
- 2013-2015 *Senior Field Technician*. Far Western Anthropological Research Group, Inc., Davis, California.
- 2010-2013 *Field Lithic Analyst*. Eastern Tigray Archaeological Project, Ethiopia. Analysis of archaeological contexts and lithic artifacts.
- 2002-2005 *Field Technician*. Far Western Anthropological Research Group, Inc., Davis, California.
- 2007 *Staff Archaeologist*. Dakhleh Oasis Project, Mut, Egypt. A bioarchaeological project.
- 2005 *Senior Staff Archaeologist*. Pambamarca Archaeological Project, Senior Staff, Ecuador.
- 2005 *Staff Archaeologist*. Cancuen Archaeological Project, Conservation Assistant, Petén, Guatemala.
- 2003-2004 *Staff Archaeologist/Project Illustrator/Assistant Laboratory Director*. Proyecto Grupo de las Cruces, Palenque, Mexico.

### **TECHNICAL ILLUSTRATIONS IN ARCHAEOLOGICAL RESEARCH**

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- 2000-Present Ceramic, lithic, and architectural illustrations in field report for the Caracol Archaeological Project. (see [www.caracol.org](http://www.caracol.org))
- 2004 Graphic Illustrator. Lake County Historic Museum, Lakeport, California.

### **VOLUNTEER EXPERIENCE**

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- 2000-Present *Senior Staff and Project Illustrator*. Caracol Archaeological Project, Belize. Conducted excavations of Classic Period residential groups, drew and catalogued all related ceramics as well as assisted in cataloguing procedures of all recovered artifacts and related cultural materials. Illustrations for Caracol Archaeological Project Season Reports.
- 2012-2013 *Assistant Director of the Archaeology Lab*. University of Central Florida. Directed and managed undergraduates and graduates on laboratory procedures of curation and data entry (e.g., digital document scanning, artifact illustration, and inventory using Microsoft Access and Excel).
- 2010-2013 *Lithic Analyst*. Eastern Tigray Archaeological Project, Ethiopia. Analysis of archaeological contexts and lithic artifacts.
- 2006-2008 *Assistant Director of the Archaeology Lab*. University of Central Florida. Directed and managed undergraduates and graduates on laboratory procedures of curation and data entry (e.g., digital document scanning, artifact illustration, and inventory using Microsoft Access and Excel).
- 2007 *Staff Archaeologist*. Dakhleh Oasis Project, Mut, Egypt. A bioarchaeological project. Excavated human remains from Roman Period cemetery.
- 2005 *Senior Staff Archaeologist*. Pambamarca Archaeological Project, Senior Staff, Ecuador. High altitude (>2,000 meters) excavation and survey of Inka and Pre-Inka (Cayambe) fortifications and settlements (included associated laboratory duties). Instructed undergraduates and graduates on field recordation methods and excavation techniques.
- 2005 *Staff Archaeologist*. Cancuén Archaeological Project, Conservation Assistant, Petén, Guatemala. Assisted in the conservation of one ball court and associated western and eastern structures. Documented artifactual materials in on-site laboratory.
- 2004 *Staff Archaeologist/Project Illustrator/Assistant Laboratory Director*. Proyecto Grupo de las Cruces, Palenque, Mexico. Excavation of Temple XX in Palenque's Cross Group. Illustration of Palenque Incensarios. Inventoried seven years of data and modified project artifact catalogue.
- 2003 *Staff Archaeologist/Project Illustrator/Assistant Laboratory Director*. Proyecto Grupo de las Cruces, Palenque, Mexico. Excavation of Temple XX in Palenque's Cross Group. Illustration of Palenque Incensarios.