

October 2020

## Research Associate Professor/Co-Director

Lori C. Collins

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**LORI D. COLLINS, PH.D.**

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*co-Director of the USF Libraries Digital Heritage and Humanities Collections*

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**BIOGRAPHICAL INFORMATION**

I have been an innovator in the area of digital documentation strategies for cultural and natural heritage, and have focused research interests relating to the inclusion and utilization of digital and virtual collection development and assets for library and education opportunities. As the Director and Founder of the Digital heritage and Humanities Collections at the University of South Florida Libraries, I have worked to build a team of specialists in areas of GIS, 3D and Virtual Reality, and digital storytelling, and have an established platform of research and grants relating to historic preservation, digital museums, and archaeological and heritage site documentation. I have most recently been working on best practices, ethics, and applications for libraries and the use of digital assets and heritage collections. I have particular interest in 3D laser scanning and reality capture imaging technologies, with focused interest involving rock art, landscapes, monuments, and resource tools for more effective natural and cultural systems management integration.

**RESEARCH INTERESTS**

My research interests include technological applications for heritage and archaeological preservation and management; spatial tools and new technologies such as terrestrial laser scanning, aerial LiDAR and 3D printing; archaeological visualization and representation; conservation and preservation strategies for stone monuments and structures and landscape resource management; environmental archaeology and applications of GIScience in archaeological research (sensitivity modeling and cultural resource management applications); ethics and use of open data relational to tribal and other cultural sensitive information; digital collection applications for libraries and museums; and educational outcomes and curricular ties for 3D and immersive materials. Geographic Specializations: U.S. Prehistory and History, Florida and the Southeast United States, and Mesoamerica. In addition to these areas mentioned, I have also worked nationally and internationally on projects involving 3D and spatial applications for heritage preservation, museum applications and resource management in: Bahamas, Spain, Egypt, Greece, US Virgin Islands and Hawaii, Armenia, throughout Mesoamerica and the U.S. Southeast and Northeast. My research and projects have been featured in regional, national and international news, and were recently highlighted on National Public Radio's Science Friday: <https://www.sciencefriday.com/segments/uncovering-artifacts-and-archaeological-finds-with-lasers/> . Additionally, an example of my latest writing on open heritage and libraries demonstrates an overview of my research in these areas: <https://openheritage3d.org/news.php?a=usf> .

**APPOINTMENTS**

2016-Present Research Associate Professor/Director of the Digital Heritage and Humanities Center, University of South Florida Libraries, with Courtesy Faculty and Teaching Assignments in School of Geosciences. I also serve as a co-Director for the Digital Media Commons in the USF Libraries, and have developed a VR Lab, Viz Lab, Innovation Space, and 3D Print Lab for open access applications. I additionally serve as the University Technical Representative for the Cooperative Ecosystem Studies Units (CESU) Network.

2014-2016 Research Associate Professor, School of Geosciences and Director of Alliance for Integrated Spatial Technologies, College of Arts and Sciences, University of South Florida. Serve as the University Technical Representative for the Cooperative Ecosystem Studies Units (CESU) Network.

2009-2014 Research Assistant Professor/Director, Alliance for Integrated Spatial Technologies College of Arts and Sciences, University of South Florida.

2007-2009 Instructor and Founding Director, Alliance for Integrated Spatial Technologies, College of Arts and Sciences, University of South Florida.

2004-2009 Instructor, Department of Anthropology, University of South Florida.

2002-2004 Visiting Instructor and Undergraduate Advisor, Department of Anthropology, University of South Florida.

1998-2002 Environmental Specialist and Development of Regional Impact Coordinator, Florida Department of Environmental Protection, Southwest District, Tampa. Also served as liaison representative on numerous boards and community outreach facilitation.

1994-2002 Officer and Director, Collins Communications Group, Inc., Dade City, Florida. Included two radio stations for which I served as a News Director and Corporate Officer.

## EDUCATION

University of South Florida, Tampa, Florida  
 Ph.D. in Anthropology (Archaeology Track) 2007  
*Dissertation: Understanding and Closing the Gaps: a GAP audit approach linking archaeology and land acquisition strategies in Florida*

University of South Florida, Tampa, Florida  
 M.A. in Anthropology 2002  
*Thesis: Positively Fourth Street: a GIS-based landscape approach to historical archaeology at Indian Key Historical State Park, Florida, 8MO15)*

Saint Leo University, St. Leo, Florida  
 Environmental Science (20 hrs. undergraduate program) 2000

University of Florida, Gainesville, Florida  
 B.S. in Agriculture, with coursework emphasis on Ag Communications and Journalism 1989

## AWARDS

President's Town and Gown Community Service Award 2014  
 USF Provost Award for Outstanding Undergraduate Advising 2005  
 USF Provost Award for Outstanding Teaching by a Graduate Teaching Assistant 2004

USF Provost Award for Outstanding Teaching by a Graduate Teaching Assistant	2003
Florida Archaeological Council, John W. Griffin Student Award	2001
Florida Academy of Sciences Student Paper Award Honorable Mention	2001
Director's Outstanding Performance Award, Florida Department of Environmental Protection	2001
Florida Archaeological Council, John W. Griffin Student Award	2000
Director's Outstanding Performance Award, Florida Department of Environmental Protection,	2000

## TEACHING

Online Instructor Certification completed in 2015. Courses taught include undergraduate and graduate offerings in Geosciences and Anthropology such as: ANG 6115 (Digital Museums), ANG 6115 (Technologies for Heritage Preservation), GEO 6116 (Perspectives on Environmental Thought), GEO 6115 (Advanced Field Methods), ANT4930 (3D Printing for Heritage Applications), GIS 5075 (Global Positioning Systems), ANT 2000 (Introduction to Anthropology), ANT 3101 (Introduction to Archaeology), ANT 4172 and ANG 6115 (Historical Archaeology and Special Topics in Historical Archaeology), ANT 4158 and ANG 6115 (Florida Archaeology and Special Topics in Florida Archaeology).

## PUBLICATIONS, REPORTS, AND PROCEEDINGS

Jaime Rogers, Lori Collins, and Travis Doering. Phase I archaeological survey Patrick Air Force Base, on-base recreation lodges, Patrick Air Force Base, Brevard County, Florida. 2018.

Collins, LD. Terrestrial LiDAR, Lori D. Collins, First published: 26 November 2018. The Encyclopedia of Archaeological Sciences eMRW (ISBN 9781119188230). In hardcover and in electronic format on Wiley Online Library. Edited by Sandra López-Varela.

LD Collins, HG Kiflu, Tonian Robinson, Travis Doering, David Eilers, Mel Rodgers, Sarah Kruse, Shawn Landry, Jochen Braunmiller, Garrett Speed, Jorge Gonzalez, Richard McKenzie  
A Multi-Sensor Approach to Documenting a Large Collapse Sinkhole in West-Central Florida. American Geophysical Union Fall Meeting Abstracts, 12/2017.

Collins, Lori and T. Doering. Beyond Hype and Promise: Digital Heritage Strategies in Our Nation's Parks for Preservation, 3D Learning, Outreach, and Education. In press. 3D Digital Documentation Summit Proceedings, New Orleans, LA. April 18-20, 2017.

Doering, Travis, L. Collins, M. Schwadron, and Ken Wild. 3D Digital Documentation and Analysis of the Reef Bay Valley Petroglyphs, St. John, U.S. Virgin Islands National Park. In press. 3D Digital Documentation Summit Proceedings, New Orleans, LA. April 18-20, 2017.

Córdova Tello, Mario, T. Doering, L. Collins, and Carolina Meza Rodríguez. El registro de 3D de la escultura en Chalcatzingo y sus alcances en la conservación. Proceedings of the Tercer Congreso Internacional el Patrimonio Cultural y las Nuevas Tecnologías: Herramientas y Lenguajes para Museos. Museo Nacional de Antropología, Mexico City. November 28-30, 2016. Session: The Museological Sense: Reflecting on New Technologies in Museum and Heritage Organizations, 1976-2016.

Collins, Lori and Travis Doering. Examining Erosion with a Terrestrial Laser Scanning Survey of the Russell Cave Rock Shelter. Technical Report prepared for the Southeast Archeology Center, National Park Service, Tallahassee, FL. (2016).

Collins, Lori and Travis Doering. 3D Digital Documentation of Historic Launch Complex Structures at CCAFS: A Workflow Methodology for Cultural Resource Documentation. Ms on file 45<sup>th</sup> Space Wing, CCAFS and with the Florida Master Site File, Tallahassee (2016).

Córdova Tello, Mario, Carolina Meza Rodríguez, Omar Espinosa Severino, Travis Doering and Lori Collins. Una aproximación a los relieves de Chalcatzingo: el escaneo láser 3D. Proceedings of the Primer Congreso Internacional el Patrimonio Cultural y las Nuevas Tecnologías: Una visión Contemporánea. Mexico City. (2015).

Collins, Lori and Travis Doering. Sunshine Speedway Resource Group (Site 8PI12003) 3D Documentation Project. Report prepared for the Florida Department of Transportation (FDOT) and submitted to the Library of Congress (HALS), District 7, West Central Florida, Tampa, Florida (2015).

Pohl, Mary, Christopher von Nagy, Lori Collins, Travis Doering, Shannon Weatherby, Maria Tway. El Sacrificio en la Unidad Política de La Venta, Tabasco. Tabasco: Una Visión Antropológica e Histórica. M. A. Rubio Jiménez, R. P. Vela and B. P. González. Mexico City, Consejo Nacional para la Cultura y las Artes, Instituto Estatal de Cultura de Tabasco, Universidad Nacional Autónoma de México: 85-155. (2014).

Collins, L.D. and Travis Doering. The Chinsegut Hill 3D Documentation Project. Ms on file with the Florida Master Site File, Tallahassee, FL. (2014).

Collins, L.D. and Travis Doering. Topographical Modeling and GIS Geodatabase Design of Four Prehistoric Mound Locations, St. Petersburg, FL. Ms. On file Florida Master Site File, Tallahassee, FL. (2014).

Collins, L.D. and Travis Doering. Fort Matanzas National Monument Digital Documentation Project. Ms. On file, National Park Service, SEAC, Tallahassee. (2013).

Collins, L. D., Travis Doering, Steven Fernandez. *Archaeological Resource Sensitivity Modeling in Florida State Parks District 1: The Northwest Florida Region*. Florida Department of Environmental Protection, Division of Recreation and Parks, Tallahassee, FL. (2013).

Collins, L. D. and Doering, T. F. Terrestrial and Airborne LiDAR Digital Documentation of Petroglyphs in Three Regions: Virgin Islands National Park, Hawai'i Volcanoes National Park, Pu'uhonua Honaunau National Historical Park, Chesapeake and Ohio Canal National Historical Park, Great Falls National Park. National Park Service, Southeast Archaeological Center, Tallahassee (2013).

Collins, L. C., Travis Doering and Steven Fernandez. *Archaeological Resource Sensitivity Modeling in Florida State Parks District 2: The Northeast Region*. Florida Department of Environmental Protection, Division of Recreation and Parks, Tallahassee, FL. (2012).

Doering, T. F. and Lori Collins. *The Takalik Abaj Monumental Stone Sculpture Project: High Definition Digital Documentation and Analysis*. Technical report to the Ministerio de Cultura y Deportes Guatemala, Dirección General del Patrimonio Cultural y Natural-IDAEH and the Proyecto Nacional Tak'alik Ab'aj, Guatemala City, Guatemala. (2011).

Doering, Travis F. and Lori D. Collins. *Terrestrial Laser Scanning, 3D and Reflective Imagery Documentation of a Newly Discovered Group of Prehistoric Native American Petroglyphs*. On file National Park Service, Washington, D.C., National Capital Region. (2011).

van Gaalen, Joseph, Sarah Kruse, Giovanni Coco, Lori Collins, and Travis Doering. Observations of Sedimentology and Geomorphology during Beach Cusp Evolution at Melbourne Beach, Florida, USA, *Geomorphology* 129; pgs. 131–140. (2011).

Doering, T.F and Lori D. Collins. Revisiting Kaminaljuyu Monument 65 in Three-Dimensional High Definition. In *The Place of Sculpture in Mesoamerica's Preclassic Transition: Context, Use, and Meaning*, edited by Clark, Guernsey and Arroyo. The 2007 Dumbarton Oaks Pre-Columbian Symposium, Antigua, Guatemala, 5-6 October 2007. Dumbarton Oaks, Washington, D.C. (2010).

Lori D. Collins, Travis F. Doering, and Sarah Kruse. Close Range Terrestrial Laser Scanning (TLS) and GPS and GPR Survey of Five Historic Cemeteries, Camp Blanding, Florida. Ms. On file Florida Master Site File, Division of Historical Resources, Tallahassee, FL. (2010).

Collins, Lori, Travis Doering, and Steven Fernandez. Archaeological Resource Sensitivity Modeling in Florida State Parks District 3: The East and Central Florida Region. DEP Contract No. RP700. Final report on file with the Florida Department of Environmental Protection, Division of Recreation and Parks, Tallahassee, FL (2010).

Doering, T.F. and Lori Collins. Mesoamerican Sculpture: Three-Dimensional Documentation to Dissemination. Proceedings from the 37th Meeting of Computer Applications and Quantitative Methods in Archaeology, *Making History Interactive*. CAA 2009 Williamsburg, Williamsburg, Virginia. (2010).

Collins, Lori and Travis Doering. Terrestrial Laser Scanning Survey and CAD of the Florida Caverns Visitor's Center, Marianna, Florida (8JA1068). Report to the Hammond Design Group, LLC and the Florida Department of Environmental Protection, Division of Recreation and Parks, Tallahassee, FL. (2010).

Collins, Lori and Travis Doering. Terrestrial Laser Scanning, GPR, and CAD Stabilization Survey, of the Dummett Mill Ruins, Florida (8VO241). Report to Bender & Associates Architects, P.A. and the Florida Department of Environmental Protection, Division of Recreation and Parks, Tallahassee, FL. (2009).

Collins, Lori and Travis Doering. High Definition Digital Documentation at the Crystal River Archaeological Site (8C11). *The Florida Anthropologist* 62(1-2):23-44. (2009).

Mary Pohl, Lori Collins, and Travis Doering. Reporte del escudriñamiento laser de tres dimensiones de los monumentos y artefactos de La Venta. Informe al Consejo de Arqueología, Instituto Nacional de Antropología e Historia, Mexico City, D.F., Mexico. (2009).

Joseph van Gaalen, Sarah Kruse, Lori Collins, Travis Doering, and Russell Gibb. Comparison of Laser Scanning Methods for Beach Morphology Investigations. *American Geophysical Union* 89(53), Fall Supplement, Abstract OS23A-1232, (2008).

Collins, Lori and Travis Doering. The High Definition Digital Documentation (H3D) Survey of the Tomokie Statue at the Tomoka State Park, Ormond Beach, FL. Ms on file: Florida Park Service, Tallahassee, Florida. (2008).

Collins, Lori and Travis Doering. Mapping the Moundbuilders: Revisiting the National Landmark Site of Crystal River (8CI1), Florida, Using Integrated Spatial Technologies. Division of Historical Resources Grants in Aid, Survey and Planning Program, State of Florida, Tallahassee. (2008).

Collins, Lori. Understanding and Closing the Gaps: A GAP audit approach linking archaeology and land acquisition strategies in Florida. Doctoral dissertation, University of South Florida, Department of Anthropology, College of Arts and Sciences, Tampa Campus. (2007).

Collins, Lori and Travis Doering. Integrated Spatial Technologies: High Definition Documentation of the Miami and Royal Palm Circles. The Florida Anthropologist 59(Special Issue: The Miami Circle: Fieldwork, Research and Analysis II):161-177. (2006).

Collins, Lori and Travis Doering. High Definition Documentation Survey (HDDS) of the Yulee Sugar Mill, Citrus County, Florida. Report prepared for the Florida Park Service, Crystal River, FL. (2007).

#### SELECT PRESENTATIONS

- 2018 Collins, Lori, Travis Doering and Margo Schwadron. Heritage at Risk: How 3D Spatial and Imaging Tools are Helping Managers and Researchers Better Preserve, Protect, and Interpret the Castillo de San Marcos and Fort Matanzas, St. Augustine, Florida. Florida Anthropological Society Meetings, Tampa, Florida.
- 2018 Doering, Travis, Lori Collins and Thomas Penders. Digital Strategies to Preserve our Nation's Space History - Cape Canaveral Air Force Station. Florida Anthropological Society Meetings, Tampa, Florida.
- 2017 Collins, Lori and Travis Doering. Beyond Hype and Promise: Digital Heritage Strategies in Our Nation's Parks for Preservation, 3D Learning, Outreach, and Education. National Center for Preservation Technology and Training (NCPTT) Summit on Digital Preservation, April 18-20. New Orleans, LA.
- 2017 Doering, Travis and Lori Collins. *3D Digital Documentation and Analysis of the Reef Bay Valley Petroglyphs, St. John, U.S. Virgin Islands National Park*. National Center for Preservation Technology and Training (NCPTT) Summit on Digital Preservation, April 18-20. New Orleans, LA.
- 2017 Collins, Lori and Travis Doering. *Heritage Management and Digital Collections Development Using 3D and Imaging Approaches*. SPAR 3D Expo and International Conference 2017, April 3-5. Houston, TX.
- 2017 Doering, Travis and Lori Collins. *Haghpat Monastery Complex, Armenia*. Presentation to meeting of Armenian historians and writers. USF Library, Tampa, Florida, February, 2017.

- 2016 Collins, Lori and Travis F. Doering, Technologies for Global Heritage Preservation, 3D Learning, Outreach, and Education. Paper presented at the American Association for the Advancement of Science Washington D.C. February 14, 2016.
- 2016 Collins, Lori and Travis Doering. *New Technologies in Heritage Documentation*. Historic Properties Workshop, Preservation Foundation of Palm Beach, Palm Beach. Florida. November 17, 2017.
- 2016 Córdova Tello, Mario, Travis Doering, Lori Collins, and Carolina Meza Rodríguez. *El registro 3D de la escultura en Chalcatzingo y sus alcances en la conservación*. Third International Congress on Cultural Heritage and New Technologies. Tools and Languages for Museums, November 28 – 30, National Museum of Anthropology in Mexico City.
- 2016 Collins, Lori and Travis Doering. *Preserving Landscapes through Spatial Technologies* Research Symposium, University of South Florida School of Geosciences.
- 2015 Collins, Lori and Travis Doering. 3D Survey and New Technologies for Heritage Preservation and Documentation Projects. Archaeological Institute of America, Jacksonville Chapter. University of North Florida, Jacksonville. February 21, 2015
- 2014 Doering, Travis, Lori Collins, Mario Córdova Tello, Carolina Meza Rodríguez, and Omar Espinosa Severino. 3D Terrestrial Laser Scanning Survey at Chalcatzingo, Morelos, Mexico. Prospection Symposium. Patrimonio Cultural y las Nuevas Tecnologías – Una vision contemporánea, El Primer Congreso Internacional, Auditorio Fray Bernardino de Sahagún, Museo Nacional de Antropología, Mexico City December 3-6, 2014.
- 2014 Collins, Lori D., Travis F. Doering, Margo Schwadron, James McLeod, and Jorge Gonzalez. LiDAR and 3D Documentation at the Ninety Six National Historic Site, South Carolina: Using Digital Preservation Strategies to Better Manage, Protect, and Interpret the Only Existing American Revolutionary War Tunnel. General Session: Geophysics, Modeling, and Chemical Analyses. General Session: Geophysics, Modeling, and Chemical Analyses. Southeastern Archaeological Conference, Proceeding from the 71ST Annual Meeting, Nov. 12-15, 2014, Greenville, SC.
- 2014 Doering, Travis F., Lori D. Collins, Margo Schwadron, and Ken Wild. 3D Documentation and Analysis of the Reef Bay Valley Petroglyphs, St. John, U.S. Virgin Islands. General Session: Geophysics, Modeling, and Chemical Analyses. Southeastern Archaeological Conference, Proceeding from the 71ST Annual Meeting, Nov. 12-15, 2014, Greenville, SC.
- 2013 Educational, Research, and Curriculum Developments for TLS & 3D. 3D Documentation Conference, FARO, Lake Mary, FL. (Lori Collins and Travis Doering).
- 2013 Heritage Preservation and Terrestrial Laser Scanning (TLS). 3D Documentation Conference, FARO, Lake Mary, FL. (Travis Doering and Lori Collins).



- 2013 Using Laser Scanning to Document, Analyze, and Share Carved Stone Monuments from Mesoamerica: Case Studies from Mexico and Guatemala. SPAR International, Colorado. (Lori Collins and Travis Doering).
- 2013 Using Terrestrial Laser Scanning and Visualization of the World's Cultural Heritage to Educate, Engage, and Connect Communities. SPAR International, Colorado. (Lori Collins and Travis Doering).
- 2013 A Revolution in Heritage Education: Bringing the Past to the Present at the University of South Florida. SPAR International, Colorado. (Lori Collins and Travis Doering).
- 2012 The Future of Documentation, Analysis, Preservation, and Management of Imperiled World Heritage: Terrestrial Laser Scanning, High-Resolution Imaging, and Spatial Technologies at Chalcatzingo, Mexico. Homenaje a David Grove: Chalcatzingo a 80 Años de su Descubrimiento, Historia de las Investigaciones en Chalcatzingo. Ex Convento de Tepoztlán. Morelos, Mexico. (with Travis Doering).
- 2012 New Directions for Cultural Resources in the CESU: Improving Management, Interpretation, and Research Using Terrestrial and Aerial LiDAR, GPS, and other Spatial and Imaging Survey Technologies. Cooperative Ecosystem Studies Units Network 2012 National Meeting, Plenary Session Presentation, Integrating Cultural Resource Management in Ecosystem Studies: Past Projects and Future Directions. Howard University School of Law, Washington, D.C. (with Travis Doering).
- 2012 New Directions for Heritage Preservation Opportunities Using Terrestrial Laser Scanning: From the Field to the Classroom and Beyond. 3D Documentation Conference, FARO, Lake Mary, FL. (Lori Collins and Travis Doering).
- 2012 United States – Egypt LiDAR Symposium, Cairo, Egypt. Presenter at international LiDAR symposium for the Egyptian National Authority for Remote Sensing and Space Sciences (NARSS), Ministry of State for Scientific Research, Arab Republic of Egypt. Conducted in collaboration with Hamilton College (host), USGS Earth Resources Observation and Science Program, Open Topography Facility with the San Diego Supercomputer Center, and Aerometric LiDAR Solutions (with Travis Doering).
- 2012 The College of Arts and Sciences Trailblazer's Lecture Series, University of South Florida.
- 2011 The La Venta Stone Monument Documentation Project: New Directions in Iconography and Preservation Opportunities for Carved Stone Monuments in Mesoamerica. Society for American Archaeology, Sacramento, CA. (Lori Collins, Travis Doering and Mary Pohl).
- 2011 Archaeologists without Trowels: Using Technology for Heritage Preservation. Presentation to the Pasco County Historical Society. January 2011. (Lori D. Collins and Travis F. Doering).
- 2011 Technology Display Presentations: Using Terrestrial LiDAR for Historic Preservation and Documentation. Society for Historical Archaeology Conference, Austin, TX. January, 2011. (Lori D. Collins and Travis F. Doering).

- 2010 Archaeological Resource Sensitivity Modeling in Florida State Parks District 3: the East and Central Florida Region. Presentation to the Florida Park Service District 3 Park Managers Meeting, November 2010. . (Lori D. Collins and Steven Fernandez).
- 2010 Using Terrestrial LiDAR for Heritage Documentation in Mexico. A Presentation and Demonstrations for the *Consejo de Arqueología, Instituto Nacional de Antropología e Historia (INAH)*,, Mexico City. June 24-25, 2010. (Travis F. Doering and Lori D. Collins).
- 2009 High Definition Documentation Survey (HDDS): Applications to Artifact and Monument Heritage Preservation. Paper presented at the 53rd International Congress of Americanists, ICA 53, Restoration and Conservation of the Cultural Heritage of the Americas Symposium, Dr. Clara Bargellini Cioni and Dr. Humberto Rodríguez-Camilloni, Coordinators. Mexico City, Mexico. (Travis F. Doering and Lori D. Collins).
- 2009 High Definition Documentation Survey (HDDS): Applications to Architectural and Landscape Heritage Preservation. Paper presented at the 53rd International Congress of Americanists, ICA 53, Restoration and Conservation of the Cultural Heritage of the Americas Symposium, Dr. Clara Bargellini Cioni and Dr. Humberto Rodríguez-Camilloni, Coordinators. Mexico City, Mexico. (Lori D. Collins and Travis F. Doering).
- 2009 High Definition Digital Documentation for Archaeology. Three-Dimensional Spatial Imaging Technologies: Applications for Archaeology Session, organized with Lori Collins. Archaeological Sciences of the Americas Symposium, Tampa, FL.
- 2009 Symbols and Stories in Stone: Extracting Details from Mesoamerican Monumental Sculpture. Paper presented at the 37th CAA 2009, Computer Applications and Quantitative Methods in Archaeology, Making History Interactive, March 22-26, 2009, Williamsburg, Virginia. (Lori Collins and Travis Doering).
- 2009 Mesoamerican Sculpture: From 3-D Documentation to Dissemination. Paper presented at the 37th CAA 2009, Computer Applications and Quantitative Methods in Archaeology, Making History Interactive, March 22-26, 2009, Williamsburg, Virginia. (Travis Doering and Lori Collins).
- 2008 Geomatics and Spatial Technologies: New Methods to Visualize the Past. Presentation made at the Association of Ancient Historians Annual Meeting, Tampa, FL. (Travis Doering and Lori Collins).
- 2008 Stories in Stone and Other Mediums: Using Three-Dimensional Laser Scanning in Mesoamerica. Paper presented in the session, "Studies of Symbolism, Ritual, and Art in Mesoamerica," at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver, B.C. Canada. (Lori Collins and Travis Doering).

- 2007 From Landscapes to Artifacts: Visualizing the Past in Three Dimensions. Paper presented in the session, "Geographical Information Systems" at the 72nd Annual Meeting of the Society of American Archaeology, Austin, Texas. (Lori Collins and Travis Doering).
- 2007 Mapping the Moundbuilders: High Definition Techniques at Florida's Crystal River Mounds. Paper presented in the session, "Mississippian Archaeology" at the 72nd Annual Meeting of the Society of American Archaeology, Austin, Texas. (Brent Weisman, Lori Collins and Travis Doering).
- 2007 The Mesoamerican Three-Dimensional Database. Paper presented in the session, "Remote Sensing and Geophysical Techniques" at the 72nd Annual Meeting of the Society of American Archaeology, Austin, Texas. (William Klinger, Travis Doering and Lori Collins).
- 2007 Seeing Things Never Before Seen: High Definition Documentation Survey (HDDS) for Archaeology and Heritage Management. Poster presented in the session, "GIS and Mapping in Archaeology" at the 72nd Annual Meeting of the Society of American Archaeology, Austin, Texas. (Christine Bell, Travis Doering and Lori Collins).
- 2006 3D Laser Scanning and High Definition Survey Techniques: New Directions for Archaeological Investigation, Research and Heritage Management. Poster presented at the 71st Annual Meeting of the Society of American Archaeology, San Juan, Puerto Rico. (Chris Branas, Lori Collins, and Travis Doering).
- 2006 3D Laser Scanning and Analysis of the Miami Circle at Brickell Point Site, Florida. Society for American Archaeology Conference, San Juan, Puerto Rico. (Lori Collins and Ryan J. Wheeler).

#### **GRANTS and AWARDS**

- 2018 Phase I archaeological survey Patrick on-base recreation lodges, Patrick Air Force Base, Brevard County, Florida - Add. Investigators: 1) Doering, T. USAF.
- 2018 Cultural Resources Support at Cape Canaveral Air Force Station, Brevard County, Florida - Add. Investigators: 1) Doering, T. USAF.
- 2018 3D Digital Scanning of Facility 1322, Patrick Air Force Base - Add. Investigators: 1) Doering, T. USAF.
- 2018 Fostering Research and Collaboration with the National Park Service SEAC - Add. Investigators: 1) Doering, T.
- 2018 Digital Heritage Visualization, Application Developments, and Interpretation Campaigns at Fort Pulaski National Monument - Add. Investigators: 1) Doering, T.
- 2018 Archaeological and Spatial Surveys of Select Land Management Unit Areas at Cape Canaveral Air Force Station. (with T. Doering)
- 2017-2018 Digital Spatial Documentation of Castillo de San Marcos and Fort Matanzas. (with T. Doering).
- 2017-2018 Archaeological Survey South of Launch Complex 37 and Stinktown Archaeological Investigations at Cape Canaveral Air Force Station in Brevard County, Florida. (with T. Doering)
- 2016-2018 Digital Documentation and Condition Assessments of Threatened Archeological Sites in Everglades National Park. (with T. Doering)
- 2015-2020 Five Year Monitoring and Evaluation of Environmental Degradation of Six Launch Complexes, Cape Canaveral Air Force Station, Florida. (with T. Doering)

- 2017 Spatial Surveys, Digital Data Collection, and Heritage Interpretative Planning Design, City of St. Petersburg, Florida. (with T. Doering)
- 2017 St. Petersburg Archaeological Parks Virtual Applications. (with T. Doering)
- 2017 Archeological Mapping at De Soto National Memorial. (with T. Doering)
- 2017 LiDAR and Digital Terrain Modeling Survey in support of NAGPRA projects at Ocmulgee National Monument, Georgia. (with T. Doering)
- 2017 Examining Accretion and Shoreline Landform Changes with Terrestrial Laser Scanning at the Fort Pulaski National Park (with T. Doering).
- 2017 Examining Erosion with a Terrestrial Laser Scanning Survey of the Russell Cave Rock Shelter. (with T. Doering)
- 2017 Project Title: Remote Sensing, GIS, and LiDAR examination of Cattle Mound Archaeological Sites in the Congaree National Park. (with T. Doering)
- 2016 Close Range Laser Scanning, Imaging, and CT Scanning of a Bone Tool Artifact Assemblage, and miscellaneous 3D modeling tasks. (with T. Doering)
- 2016 Mapping and Spatial Analysis to Assist with NAGPRA Sites, Natchez Trace Parkway. (with T. Doering)
- 2016 Multi and Mixed-Reality Media Interpretative Strategies for Cowpens National Battlefield. (with T. Doering)
- 2016 Mapping, Condition Assessment, and Interpretive Plan for Bear Lake Mounds Archeological District. (with T. Doering)
- 2015 Terrestrial and Airborne LiDAR Digital Documentation of Eroding National Register Sites in Everglades National Park. (with T. Doering)
- 2014 Digital Modeling and Replication of the Natural Bridge Monument Eagle Sculpture. (with T. Doering)
- 2013 CESU Project Liaison Position with USF/AIST and the National Park Service (SEAC). (L. Collins)
- 2013 Terrestrial and Airborne LiDAR and Digital Documentation of Kosciusko's Mine and Historic Features, Ninety Six National Historic Site. (Collins and Doering).
- 2013 White Paper for LiDAR and Emerging Technologies Standards, Protocols, and Trend Issues, NPS. (Collins and Doering)
- 2013 Archaeological Resource GIS Sensitivity Modeling for Florida State Parks District 4: the Southwest Region and District 5 the Southeast Region. (Collins).
- 2013 Geometric Documentation and Remote Sensing of Emerald, Boyd and Gordon Mound Sites, NPS. (with T. Doering)
- 2013 Terrestrial Laser Scanning Survey of Fort Matanzas, Florida. NPS. (with T. Doering)
- 2012 Terrestrial Laser Scanning Documentation Survey and Modeling of the Addison Block House (8Vo193) and Addison-McRae Sugar Mill Ruins (8Vo7496). (with T. Doering)
- 2012 Archaeological Resource Sensitivity Modeling in Florida State Parks District 2: the Northeast Florida Region. (Collins)
- 2011 Archaeological Resource GIS Sensitivity Modeling for Florida State Parks District 1: the Northwest Region. (Collins)
- 2011 Geometrics Documentation and Remote Sensing of the Mangum Site, Natchez Trace Parkway. Principal Investigator with Travis Doering (co-PI), Cooperative Award with the National Park Service (NAGPRA Program).

- 2011 Terrestrial Laser Scanning, 3D and Reflective Imagery Documentation of a newly discovered group of prehistoric Native American Petroglyphs. Principal Investigator with Travis Doering (co-PI), Cooperative Award with the National Park Service.
- 2011 Terrestrial and Airborne LiDAR Three-Dimensional Documentation for NAGPRA Sites in BISC and CANA National Parks. Principal Investigator with Travis Doering (co-PI), Cooperative Award with the National Park Service.
- 2011 Terrestrial and Airborne LiDAR Digital Documentation of Eroding National Register Sites in Everglades National Park. (with T. Doering)
- 2011 SEAC GIS Climate Change Model, NAGPRA Program. Principal Investigator with Travis Doering (co-PI), Cooperative Award with the National Park Service.
- 2010 Archaeological Resource GIS Sensitivity Modeling in Florida State Parks District 3: the East and Central Florida Region. Principal Investigator with Travis Doering (co-PI), Grant Award DEP Contract No. RP700, Florida Department of Environmental Protection.
- 2010 The Takalik Abaj Monumental Stone Sculpture Project: High Definition Digital Documentation and Analysis. Co-PI with Travis Doering (PI) The National Science Foundation, Senior Researcher Grant, Award number BCS-0911078.
- 2010 Terrestrial and Airborne LiDAR Proposal for the Three-Dimensional Documentation of the Elliott Sugar Mill Complex and Environs. Principal Investigator with Travis Doering (co-PI), Cooperative Award with the National Park Service.
- 2009 Terrestrial Laser Scanning 3D Survey of the Bulow Plantation Ruins and the Dummett Sugar Mill Ruins, Florida. Principal Investigator with Travis Doering (co-PI), Contract with the Florida Department of Environmental Protection.
- 2009 The Florida Caverns Visitor Center 3D Documentation Project. Principal Investigator with Travis Doering (co-PI), Contract with Bret Hammond Design Group, AIA, ASLA.
- 2009 The Dummett Mill Stabilization Project. Principal Investigator with Travis Doering (co-PI), Contract with Bert Bender, Bender & Associates Architects, P.A.
- 2009 Phase I Cultural Resources Support Associated with the Demolition Footprint Program, Building 1524 and 1754, Naval Air Station Pensacola, Florida, South Eastern Archaeological Research Project No. 2356-08073. Principal Investigator with Travis Doering (co-PI).
- 2009 The Actium War Monument Project, Nikopolis, Greece. Contract with Travis Doering, in support of PI William Murray, University of South Florida Department of History.
- 2009 The El Mirador High Definition Digital Documentation Project. Contract conducted in conjunction with Richard Hansen, Director of the Mirador Basin Project, Petén, Guatemala.
- 2008 La Venta Three-Dimensional Documentation Project. Contract conducted in conjunction with the Early Mesoamerican Writing Project directed by Mary E. D. Pohl of the Florida State University.
- 2007 The Kaminaljuyú Sculpture Project: An Expandable Three-Dimensional Database. Co-Principal Investigator with Travis Doering (PI), Foundation for the Advancement of Mesoamerican Studies, Crystal River, FL.
- 2006 Guatemala Stone Sculpture 3D Laser Scanning Project. Co-Principal Investigator with Travis Doering (PI), New World Archaeological Foundation, Brigham Young University.

- 2006 Mapping the Moundbuilders: High Definition Survey Documentation of the Crystal River National Landmark Site and State Archaeological Park. Co-Principal Investigator with B. Weisman (PI) and Travis Doering (co-PI), Florida Division of Historical Resources Grants in Aid.
- 2006 Preacher's Cave Scanning Project, Eleuthera, Bahamas. Principal Investigator with Travis Doering (co-PI), Bahamian Ministry of Tourism and Archaeological and Historical Conservancy.
- 2005 Laser Scanning and GPS Survey of the Royal Palm Hotel Circles. Principal Investigator with Travis Doering (co-PI), Archaeological and Historical Conservancy.
- 2005 Laser Scanning and GPS Survey of the Yulee Sugar Mill, Citrus County, Florida. Principal Investigator with Travis Doering (co-PI), Florida Park Service, Department of Environmental Protection, Tallahassee, FL.
- 2005 Laser Scanning of the Miami Circle Site, Miami Florida. Principal Investigator with Brent Weisman (co-PI), Contract with: Pan American Consultants.

### SERVICE ACTIVITIES

- (2016-Present) Digital Initiatives Committee, USF Libraries
- (2007 – Present) University Technical Representative, Community Ecosystems Study Unit Development Programs – Gulf Coast, South Florida, and Piedmont South Atlantic initiatives
- (2014-2015) Faculty Evaluation Committee (FEC), School of Geosciences
- (2015) Visioning Committee, School of Geosciences
- (2014-2015) Ad hoc Committee on Technology and Core Facilities, School of Geosciences
- (2013-2015) College of Arts and Sciences, Chairs and Centers Council Representative
- (2012-2013) Advisory Board for SPAR International
- Pint of Science invited speaker – Tampa event – 2016
- Canadian Broadcasting Corporation Special on Heritage Preservation – 2016 (audio and story here: <http://www.cbc.ca/radio/spark/311-unscrambling-encryption-history-in-3d-and-more-1.3465784/preserving-historical-sites-in-3d-1.3465792> ).
- Appeared on a BBC special relating to heritage preservation and archaeology - 2015
- Coordinated a PBS special documentary that followed our Ninety Six National Historic Site Work- 2015
- Athena Society of Tampa keynote talk on Digital Heritage Preservation (Sept. 3, 2015)
- Ninety Six National Historic Site Public Lectures on Project Results and Public Archaeology Day- booth and scanning presentation (May 28th-30th, 2015)
- University of South Florida's Career Fair (May 5, 2015)
- Pint of Science Keynote talk on Imaging in Archeology, Tampa (May 18, 2015)
- Digital Heritage Preservation Strategies Public Lecture - Guatemala City with the Fundación Herencia Cultural Guatemalteca (HCG)- participated via Skype. (January 24, 2015)
- Co-PI/Organizing Committee for the University of South Florida Visualization Center, funded through student technology fee internal grant awarded in 2010-2011.
- Invited Presenter and Instructor: Geometric Documentation of Heritage: European Integration of Technologies 2010, Clavijo, La Rioja, Spain, International ERASMUS (*European Region Action Scheme for the Mobility of University Students*) Field School.

- 2014 Guest Curator (and developed a MOU) with MOSI, Tampa for a 3D exhibit and seminar series revolving around the idea of applications for 3D Printing. The exhibit is called 3D Printing the Future and it has been held-over due to its success and high visitation.
- Co-Founder and Director of the Alliance for Integrated Spatial Technologies, University of South Florida, a Core Facility in the College of Arts and Sciences (2007-present).
- Co-Founder, Three-Dimensional Imaging Database, a freely accessible and searchable research database of three-dimensional laser scans and supplementary materials of Mesoamerican artifacts and monumental stone sculpture. [http://research.famsi.org/3D\\_imaging/index.php](http://research.famsi.org/3D_imaging/index.php).

## STUDENTS

I have active engagement with students in the support of research and training, with a number of students working on grants and contracts and having RA, TA, and GA appointments. Through research projects I have supported dozens of internship and mentoring efforts, and am active on committees and student advisory activities. Student theses and dissertation roles include those for: David Lamb (Committee, USF, Ph.D. in progress, Environmental Science and Policy); Elizabeth Salewski (Committee, USF, Ph.D. in progress, Integrative Biology); Corinne Zellner (Committee, USF, Ph.D. in progress, Anthropology); Stephanie Powers (MA, USF, Geography, 2017); Zachary Tyler (Committee, USF, MS Geology, 2016); Garrett Speed (Committee, USF, MA Geography 2016); Richard McKenzie (Committee, USF, MA Geography, 2016); Michael Barr (Committee, MS Environmental Science and Policy, 2014); Randall Hergert (Committee, MS Geography 2016); Rebecca O'Sullivan (Co-Advisor, USF, MA 2012); Shannon McVey (Committee, USF, MA Anthropology, 2010); David Conklin (University of Miami, MS Environmental Science Program, 2010); Dina Moore (USF undergraduate Honors thesis 2010); William Klinger (USF, MA Committee, 2007), Daniel Stephens (Faculty Mentor, USF, undergraduate Honors thesis-2006); Alicia Alfaro (USF, MA Committee, 2013); Elizabeth McCoy (Co-Advisor, USF, MA, Anthropology 2013); James McLeod (Committee, MA, USF, Anthropology, 2014); Rachel Nostrom (Committee, USF, MA, Anthropology, 2014), Christopher Griesbach (MA, USF, Anthropology, 2015); Joseph Evans (Ph.D. Co-advisor, USF, Anthropology, in progress); Joseph Conrad (MA, USF, History, 2014), Margaret Alsopp (Ph.D. USF, Anthropology, in progress); Zachary Smith (MA, USF, Geography, 2014); Christina Leccese (MA USF, History, 2015).

## MEMBERSHIPS & PARTICIPATION

Cooperative Ecosystems Studies Units (CESU) South Florida and Caribbean, Gulf Coast, and the Piedmont South Atlantic; SPAR International 3D Heritage Advisory Committee (past advisor); Register of Professional Archaeologists; Society of American Archaeology; Society for Historical Archaeology; Florida Anthropological Society; Florida Trust for Historic Preservation, US/ICOMOS.