

ERIC ANDREW RODRIGUEZ MA, RPA.

earodrig@ucsd.edu

SUMMARY

Eric Rodriguez is an archaeologist with a focus on submerged heritage, Indigenous community archaeology and geographic perspectives. He is building upon his experiences in the commercial and government industries through his pursuit of the doctoral degree offered by the Anthropology Department of the University of California San Diego.

Research Interests: environmental archaeology, indigenous justice, maritime studies, Caribbean studies, marine geoarchaeology, wetland studies, coastal evolution, geophysics, & geographic information systems (GIS).

EDUCATION

University of California, San Diego

Degree in Pursuit: Doctor of Philosophy in Anthropology

San Diego, CA

October 2018 –Present

University of Southampton

Degree: Master of Arts—Maritime Archaeology

Rank: Distinction

Southampton, UK

December 2014

Dissertation Title: “Reconstructing Cultural Wetlands: New Palaeogeographic Modelling in the Humber Estuary”

Research Synopsis:

Utilizing environmental and cultural datasets alongside recent glacial-isostatic models, this masters’ research presented new paleogeographic models for the Humber Estuary and examined the influence of the rising sea-levels of the Late Neolithic-Early Bronze Age on crafting the prehistoric wetland subsistence and settlement patterns of northern England.

University of Pittsburgh, Dietrich School of Arts and Sciences

Graduate courses in Archaeology, GIS, & Remote Sensing

Pittsburgh, PA

May 2013

University of Pittsburgh, Dietrich School of Arts and Sciences

Degree: Bachelor of Philosophy in Anthropology & History

Certificates: Historical Preservation, GIS

Thesis Title: “Profitability and Production in 19th Century Composite Ships: The Case Study of the Austrian Vessel, the *Slobodna*”

Research Synopsis:

Drawing from historical research and recovered material from the *Slobodna*, this bachelor of philosophy research examined the adaptation and preservation of profit strategies pertaining to material surpluses, manufacturing technologies, and traditional construction of less prominent shipbuilding industries amidst the shifting economic taskscapes of nineteenth century Europe.

PROFESSIONAL EXPERIENCE

Geospatial Consulting Group International, LLC. — Mid-Level GIS Analyst, September 2016 —June 2018

MCB Hawaii, Hawaii, USA

Provides consultation for *MCB Hawaii* on the development and maintenance of the archaeological and environmental datasets and associated business tables. Reviewed and consolidated findings from previous field surveys into current data models.

MCAS Iwakuni, Yamaguchi, Japan

Supports geospatial efforts to the Facilities and Planning Department, carried out geodatabase migrations to the latest GeoFidelis data model. Updating the installation geodatabase for additional feature classes through GPS and total station survey collection. Prepared budgeting, purchasing requests, and training guides for global positioning systems (GPS) and remote sensing equipment such as ground penetrating radar (GPR), LiDAR, utility spars, and commercial small unmanned aircraft systems (sUAS).

MCCS Butler, Okinawa, Japan

Led development of the IGOR (iNFADS-GIS Online Reconciliation) application for tracking GIS and iNFADS changes. Collected and updated utility features for Camp Foster through GPS Survey and CAD reconstructions.

Brian F. Smith & Associates Inc.— Archaeologist/GIS & Graphics Specialist, San Diego, CA USA, March 2015—September 2016

Served as the company’s chief GIS, GPS & graphics officer, managing and editing their geodatabase to host archaeological, biological and paleontological surveys using ArcGIS 10.2.2. Carried out impact analysis and site reconstructions for 60+ projects

ERIC ANDREW RODRIGUEZ MA, RPA.

earodrig@ucsd.edu

using geospatial methods. Prepared digital products for clients and publications. Assisted in Phase I, II, and III excavations and monitored archaeological and paleontological sites across southern California. Managed and performed routine maintenance of Trimble Nomad devices. Authored and produced reports, report-grade graphics, illustrations, and maps for federal, county, and city agencies.

LG² Environmental Solutions—Field Archaeologist/GIS Consultant, Hinesville, GA USA, November—December 2014

Served as a field archaeologist for Phase I & II surveys of Fort Stewart, effectively identifying, recording, and monitoring historic and prehistoric sites as part of LG²ES's archaeological field team. Acted as the GIS & GPS consultant for Trimble Geo7X, GeoXH & Garmin Dakota 20 devices. Out of the field responsibilities included data entry and conservation lab duties.

Carmeuse Lime & Stone North America—GIS Analyst, Pittsburgh, PA USA, October 2012—August 2013

Successfully designed and established a national geodatabase of company locations across North America for future purchasing and mining strategy development. Additional responsibilities included: leading GIS software training sessions, Archival research of PLSS maps and historic tax records to digitize and edit paper maps using Adobe Photoshop CS5 to establish both historic and current boundaries of the company's properties.

INTERNSHIPS

American Anthropological Association (AAA)/Underwater Archaeology Branch of the Naval Heritage and History Command (NHHC), Washington, D.C. USA, July—August 2012

AAA Internship

Established a nationwide campaign with National Association of Student Anthropologists and AAA to implant AAA-recognized chapters in various universities and colleges. Additional duties included: legislative review, project budgeting and presented proposals to AAA financial and marketing directors.

NHHC Internship

Conducted archival research, and conserved collections from vessels such as the *USS Scorpion*, *USS Revenge*, and *USS Alabama*. Additional duties included: GIS database creation and management, preparation and review of archaeological reports and construction proposals for Section 106 adherence.

Cataloging and Digitizing the Sant Ocean Hall Models and Artifacts, Smithsonian Museum of Natural History Washington, D.C. USA, March 2012

Assembled the interactive map and display for Sant Ocean Hall Collection at Smithsonian Institute of the National Museum of Natural History using ArcGIS and AutoCAD.

Paolo Orsi Regional Archaeological Museum Syracuse, Italy, January—May 2011

Led guided tours in English and increased public awareness of Sicilian prehistory. Additional responsibilities included: exhibition preparation, English plaque translations, preservation of Arab-Sicilian numismatics, and establishing a 3D database of artifacts using Meshlab, and Scanstudio.

TEACHING EXPERIENCE

University of California San Diego—Teaching Assistant, San Diego, CA USA, October 2018 –Present

Served as a teaching assistant for the following courses:

- ANTH 102 Humans are Cultural Animals
- ANTH 164 Introduction to Marine Archaeology
- ANTH 23 Debating Multiculturalism
- ANTH 21 Race and Racisms
- UCSD Thurgood Marshall College Dimensions of Culture Writing Program
 - DOC 1: Reading Diversity
 - DOC 2: Arguing Justice
 - DOC 3: Imagination and Action

Duties included section lesson planning, grading, guest lecturing, and holding office hours.

ERIC ANDREW RODRIGUEZ MA, RPA.

earodrig@ucsd.edu

University of Pittsburgh—Instructor/Lecturer, Pittsburgh, PA USA, May—July 2013

Taught the “Introduction to GPS, GIS and Computer Methods” for the University of Pittsburgh 2013 summer semester. Evaluated undergraduate and graduate students on their performance in basic GIS and GPS theory, understanding of GIS and GPS software and database management.

RESEARCH AND FIELD EXPERIENCE

Tierra Nuevas Archaeological Project/DUNAS Project 2019—Affiliated Researcher, Puerto Rico, June 2019— Present

Under the supervision of Dr. Isabel Rivera-Collazo, I served as an affiliated researcher, surveyor and archaeologist for the Tierra Nuevas Archaeological Project as part of the Climate Science Alliance DUNAS project. This research protected and restored sand dunes as they are critical for protecting ecological environments, cultural artifacts, and human communities. Responsibilities included. Report contributions, archaeological excavation, remote imaging processing, 3D and topographical surveys.

Tell Fadous-Kfarabida Archaeological Field School—Lead Surveyor, Kfarabida, Lebanon, June—August 2014

Responsibilities as the lead surveyor for the Tell Fadous-Kfarabida excavation included total station feature collection, GIS post-processing, final report contributions, demonstrating and instructing international undergraduate student in archaeological survey techniques & theories.

Itchen River Survey, St Denys—Lead Surveyor/GIS Specialist, St Denys, UK, May—October 2014

Beginning as part of the Applied Maritime Archaeology module of the University of Southampton, this survey incorporated several intensive techniques of the coastal embankments of the Itchen River in St Denys including GPR, aerial drone recording, electric resistivity, intensive GPS and recording of three hulked vessels.

Public Health Land-Use Study—GIS Analyst, Pittsburgh, PA USA, May—August 2013

Provided spatial analysis assistance with Dr. Shanti Gamper-Rabindran, with research focusing on medical facility land-use across Pennsylvania.

Determining Highly-Probable Locations of Archaeological Deposits—Allegheny County, PA USA, September 2011—May 2012

Conducted as part of my GIS certificate from the University of Pittsburgh, I utilized ArcGIS and ENVI software to generate maps of potential Pennsylvanian archaeological deposits based on standing anthropological literature and environmental factors. This research was supervised by Dr. William Harbert and Dr. Kathleen Allen.

Evolution and Technology in the Ottoman Navy in the 15th-18th Centuries—Pittsburgh, PA January—May 2012

This independent study examined primary documents and standing literature concerning the shipbuilding technologies and naval strategies during the height of the Ottoman Empire. This research was supervised by Dr. Pinar Emiralioğlu.

Slobodna Amidships: Underwater Archaeology Field School—Key Largo, FL July—August 2011

From this archaeological training, I gained a practical understanding of excavating a submerged archaeological site. This experience included charting procedures on *Slobodna's* amidship site, applying GIS and archival research to locate related archaeological sites, cataloguing artifacts from wrecks such as *Queen of Nassau* for Florida Keys National Marine Sanctuary, and producing several reports on the *Queen of Nassau* collection and the yearly excavation report.

PUBLICATIONS

Eric Rodriguez, “Reconstructing Pre-Columbian Coastlines: New Paleogeographic Models for Puerto Rico During the Mid-Late Holocene” MA Thesis, UC San Diego 2020.

Eric Rodriguez, “Reconstructing Holocene Wetlands: New Palaeogeographic Models in the Humber Estuary” Society for Historic Archaeology Conference, Advisory Council for Underwater Archaeology, Seattle 2015.

Eric Rodriguez, Rodrigo Ortiz-Vasquez, Zdravka Georgieva, Alex Tourtas. “Itchen River, Southampton, UK Archaeological Survey Report” Nautical Archaeology Society 2014.

Eric Rodriguez, “Reconstructing Cultural Wetlands: New Palaeogeographic Modelling in the Humber Estuary” MSc. Dissertation. University of Southampton 2014.

ERIC ANDREW RODRIGUEZ M.A., R.P.A.

earodrig@ucsd.edu

Eric Rodriguez, "Profitability and Production of 19th Century Composite Ships: A Case Study of the Austrian Vessel, The *Slobodna*" B. Phil Dissertation. University of Pittsburgh 2012.

PRESENTATIONS

"Eric Rodriguez- "Building Computational Repertoires for a Post-COVID Archaeology"," Critical Anthropology Workshop. San Diego, CA, June 2020.

Jade d'Alpoim Guedes, Katrina Cantu, Clara Dawson, Ariana Garvin, Brandon Gay, Isabel Hermsmeyer, Matthew Howland, Xiyuan Huang, Shelby Jones-Cervantes, Bridget Lawrence, Brady Liss, Sunyoung Park, Eric Rodriguez, Julianna Santillan-Goode, Luke Stroth, Anthony T. Tamberino, Fabian Toro Uribe, Isabell Villasana, Zhen Yu, and Thomas E. Levy, "Analysis of the Paleobotanical Collection from Khirbat al Jariya, and Early Copper Production Site in the Faynan, Jordan" 2019 American School of Oriental Research Annual Meeting, San Diego 2019.

"Reconstructing Holocene Wetlands of Northern England: New Paleographic Models in the Humber Estuary," Society for Historical Archaeology. Seattle, WA, January 2015.

BOOK REVIEWS & ONLINE CONTRIBUTIONS

Eric A. Rodriguez. Review of Kimura, Jun, *Archaeology of East Asian Shipbuilding*. H-Japan, H-Net Reviews. August 2017.

Eric A. Rodriguez, Wetlands of War: The Case for Amphibious Warfare in Prehistory. *Combat Archaeology*. Available at: <http://combatarchaeology.org/wetlands-of-war-the-case-for-amphibious-warfare-in-prehistory/> (Accessed 10 Oct. 2020).

RELEVANT COURSEWORK

Select Graduate Courses: Maritime Aspect of Culture, Marine Geoarchaeology, Applied Maritime Archaeology, 3d Recording, Modelling & Interpretation, Ancient Mediterranean seafaring, GIS & Spatial Technologies for Archaeological Landscapes, Anthropology of Climate Change, Introduction to Paleoethnobotany, Geoarchaeology, Methods of Historical Geographic Inquiry. Applied Remote Sensing & GPS Techniques, Advanced GIS Systems and Computer Methods

Select Undergraduate Courses: Archaeology of Native American Indians, Integrating Archaeometry, GIS, GPS, & Computer Methods, Mediterranean World. Introduction to Remote Sensing, Archaeology of Sicily, 3D Methods in Archaeology,

TECHNICAL & LANGUAGE PROFICIENCY

Platforms: Microsoft Windows 7, Vista, 8, 10, Apple iOS

Software: **GIS:** ESRI ArcGIS Suite; ArcGIS Desktop, ArcSDE, ArcGIS for Server, Portal for ArcGIS (Versions 9.2 – 10.7.2, Pro), QIS, GRASS, HYPACK, Petrel

Database Design and Administration: Microsoft SQL Server (2012),

Project Management & Tracking: Microsoft Office Suite (Project, Access, Visio, Sharepoint)

Data Creation, Analysis, & Manipulation: AutoCAD 2D & 3D (Civil, Revit), 3ds Max, Adobe Creative Cloud, ENVI, ERDAS, RHINO, SketchUp, CoralDraw, Scanstudio, Meshlab, Agisoft Photoscan

Scripting and Automation: Python, HTML

Language: English (Fluent), Spanish (Upper intermediate), Italian (Novice)

FIELD PROFICIENCY

ERIC ANDREW RODRIGUEZ M.A., R.P.A.

earodrig@ucsd.edu

- Surveys:** Phase I, II & III archaeological surveys, Ground stone analysis, global positioning satellite (GPS) survey, small unmanned aircraft systems (sUAS) surveys
- Methodology:** Ground Penetrating Radar (GPR), Electric Resistivity, GPS & RTK systems, total stations, submerged audio and video capture, photogrammetry, 3D Recording (Faro Arm, Next Engine, etc.), sUAS
- Diving:** OWD PADI Certified, BSAC Sports Diver, BSAC Drysuit
- Professional Certifications:** Register of Professional Archaeologists, FAA Part 107 Remote Pilot, First Aid/CPR Certified, ESRI Spatial Analyst, 3D Analyst, and Geostatistical Analyst Certifications.
-

SELECT VOLUNTEER EXPERIENCES

- **Anthropology Mentor-Protégé Program, Mentor, October 2018 –Present**
Served as an undergraduate student mentor at UC San Diego
 - **Archaeology Colloquium Series, Organizer, October 2018 –Present**
Coordinated guest speakers and events for the Anthropology Department
 - **2016 GIS Day, Coordinator, Okinawa, Japan, Nov 16, 2016**
Coordinated educational activities for middle school students and gave presentations for the local middle school geography and social studies courses.
 - **San Diego Maritime Museum, Shiphand, San Diego, CA USA, 2015- 2016**
Assisted in weekly museum and ship maintenance tasks for the *Star of India*, *HMS Surprise*, and the *San Salvador*.
-

REFERENCES

Available upon request