

Jeffrey Glenn Royal

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EDUCATION

- Ph.D., Department of Anthropology, Texas A&M University, 2002
Areas of study: Classical Greek, Roman, and early medieval archaeology; archaeology and history of Late-Antiquity and early-Byzantine states; development of transportation technology from the Bronze-Age through medieval periods; physical anthropology.
- MA, Department of Anthropology, University of South Carolina - Columbia, 1994
Areas of study: Classical archaeology and history; archaeological method and theory; archaeological statistics; physical anthropology.
- BA, Department of Anthropology, University of North Carolina - Charlotte, 1992
Areas of study: archaeology of ancient and Classical Europe/Mediterranean; physical anthropology.
- BA, Department of Economics, University of North Carolina - Chapel Hill, 1988
Areas of study: economic theory, economic geography, international finance.

AFFILIATIONS

Archaeological Institute of America, The Leon Recanati Center for Maritime Studies (Fellow), Institute of Nautical Archaeology (Adjunct Professor), Byzantine Studies Conference, Society for Late Antiquity Studies, American Schools of Oriental Research, Society for Nautical Research

POSITIONS and RELEVANT EXPERIENCE

Current

- 2003 - **Archaeological Director:** RPM Nautical Foundation. Development of collaborative and internal research projects, including survey, excavation, and analysis of marine sites in the Mediterranean, Black Sea, and Caribbean. Artifact analysis of Roman and Late Antiquity ceramics, anchor stocks, and architectural elements; ship timber mapping, recording, analysis, and reconstruction. Survey planning and operations, coordination and planning with foreign government representatives. Review or analysis of magnetometer, multibeam echo sounder, and sidescan sonar data; processing of magnetometer data from numerous RPM projects. Coordinate survey, documentation, and excavation of various submerged sites. Duties also include oversight of Foundation personnel, budget, and strategic objectives.
- 2003 - **Adjunct Professor.** Institute of Nautical Archaeology.
- 2005 - **Co-Director** with Dr. Sebastiano Tusa (Soprintendenza del Mare - Regione Siciliana) Egadi Islands Survey, Sicily, Italy. Survey including area where Carthaginian fleet was lost during battle with Roman forces, 242 BCE. Coordinated the project planning, documentation, and system implementation; oversaw operations of vessel crew and technicians, analysis of multibeam data, coordinated ROV deployment and documentation

of sites, as well as the recording of artifacts. Directed deep-water excavation of wrecksite that utilized ROV interface; subsequent cataloging, recording, and preparation of artifacts.

2007 - **Co-Director** with Dr Adrian Anastasi: Albania Coastal Survey. This is an ongoing project to document all cultural resources along the Albanian coast. Coordinated the project planning, documentation, and system implementation; oversee operations of vessel, crew, technicians, and interns. Analysis of multibeam data, coordinated ROV deployment and documentation of sites, and coordination of dive operations on sites or in survey. Determination on collection of artifacts, site recording, and process of artifact recovery. Perform recording, documentation, and analysis of artifacts. Process and analyze field data, conduct research of finds, and write final reports for Albanian government.

2008 - **Director**: Illyrian Coastal Exploration Program; a project designed to survey and document submerged cultural resources along the eastern shores of the Adriatic and Ionian Seas along what was once the ancient Illyrian coast. Through a cooperative effort between Albania, Montenegro, and Croatia it is envisioned that scholarship, site protection, and addressing illegal antiquities trade can better be addressed. This project presently includes fieldwork in Albania and Montenegro. Negotiations with Croatia are underway that will complete the three-nation cooperative effort. Participating groups from each country include Cultural Ministries, Tourist Ministries, law enforcement agencies, universities, as well as US Government agencies and State Department representatives.

2009 - **Co-Director** with Dr. Sebastiano Tusa (Soprintendenza del Mare - Regione Siciliana) Southern Sicily Coastal Survey, Sicily, Italy. Project intended to survey and document all submerged cultural sites along the southern coast of Sicily. Coordinate the project planning, documentation, and system implementation; oversee operations of vessel, crew, technicians, and interns. Analysis of multibeam data, coordinated ROV deployment and documentation of sites, and coordination of dive operations on sites or in survey. Determination on collection of artifacts, site recording, and process of artifact recovery. Perform recording, documentation, and analysis of artifacts. Process and analyze field data, conduct research of finds, and write final reports for Sicilian government.

Previous

August 2006, 2009

Co-Director with Dr. Sebastiano Tusa (Soprintendenza del Mare - Regione Siciliana) Capo lo San Vito Coastal Survey, Sicily, Italy.

August - September 2006

Director: RPM-INA-Turkish Ministry of Tourism and Culture Southern Bozburun - Bodrum Approaches Survey, Turkey. Oversaw the planning for, budget allocations, and implementation of survey vessels and equipment; assisted in data analysis, anomaly assessment, and site verification; directed crew and technicians; assisted in preparing documents for submission to government officials; implemented systems included multibeam echosounders and ROV deployment, preliminary identification and dating of cultural material, final site analysis and publication.

February 2006 - February 2007

Director: Southern Boca-Chica Coastal Survey, Boca Chica Key, Florida. Supervised the planning, implementation, and data processing/analysis of magnetometer survey, as well as dive verification operations; maintained data record for magnetic anomalies and verification results; compiled and produced data that resulted in the writing of final report.

August - September 2005

Co-Director: RPM-INA-Soprintendenza de Calabria Crotona Survey, Calabria, Italy. Oversaw the planning for, and implementation of, survey vessels and equipment; assisted in data analysis, anomaly assessment, and

site verification; directed crew and technicians; assisted in preparing documents for submission to government officials; implemented systems included multibeam echosounders, sidescan sonar, and ROV operation; dive verification and documentation of sites, preliminary identification and dating of cultural material.

June – July 2005

Director: RPM-INA-Turkish Ministry of Tourism and Culture Southern Bozburun Survey, Marmaris, Turkey. Oversaw the planning for, budget allocations, and implementation of survey vessels and equipment; assisted in data analysis, anomaly assessment, and site verification; directed crew and technicians; assisted in preparing documents for submission to government officials; implemented systems included multibeam echosounders and ROV deployment and documentation of sites, preliminary identification and dating of cultural material, final site analysis and publication.

March – April 2005

Co-Director: RPM- Soprintendenza de Campania Amalfi Harbor Survey, Sicily, Italy. Coordinated the project planning, analyzed multibeam data, produced charts of survey area, assessment of submerged structures.

August – September 2004

Co-Director: RPM-INA-Soprintendenza de Calabria Locri Epezifiri Survey, Calabria, Italy. Oversaw the planning for and implementation of survey vessels and equipment; assisted in data analysis, anomaly assessment, and site verification; directed crew, technicians and INA and Italian student-intern operations; assisted in preparing documents for submission to government officials; implemented systems included multibeam echosounders, magnetometers, sidescan sonar, and ROV operation; oversaw budget and expedition expenditures.

May – July 2004

Co-Director: RPM-CAS-NGS-INA Golfo de Cadiz Survey, Cadiz, Spain. Conducted preliminary research for location of vessels associated with the Battle of Trafalgar, oversaw the planning for and implementation of survey vessels and equipment; assisted in data analysis, processing, anomaly assessment, and site verification; made dives on known sites to analyze vessel remains; directed crew and technician operations, assisted in preparing documents for submission to government officials; implemented systems included multibeam echosounders, magnetometers, and ROV.

September 2003

Archaeological Director: INA-RPM Morocco Survey, Tangier, Morocco. Coordinated and conducted multibeam echo sounder and magnetometer surveys of areas on the Atlantic coast of Morocco. Processed magnetometer data from survey. Survey was conducted aboard a dedicated RPM research vessel operated out of Tangier harbor.

June – July 2003

New Ground Reef Survey, RPM Nautical Foundation, Key West, Florida. Underwater survey including exploratory trenching and remote sensing of magnetometer anomalies as part of search for material from the *Henrietta Marie*.

September 2002 – May 2003

Archaeologist: Legacy Research Associates. Developed predictive models identifying pre-historic/historic habitation and industry-use areas for archaeological survey projects; analysis of data from terrestrial site surveys; project proposal and final report writing.

July – August 2002

Staff Archaeologist: Moroccan Coastal Survey Project, Tangier, Morocco. Principal period archaeologist for Roman – Byzantine materials; marine survey and mapping of site areas; artifact analysis, typology, and dating; management of database.

August - September 2000

Assistant Excavation Director, Byzantine Wreck: Joint Leon Recanati Center for Maritime Studies - Nautical Archaeology Society excavations at Tantura Lagoon, Israel. Supervision of artifact recovery and recording; mapping of hull and associated artifacts; analysis of ship timbers; conducted survey of harbor; assisted with student training in marine excavation methodology.

October 1999

Research Fellow: The Leon Recanati Center for Maritime Studies -Haifa, Tantura Lagoon, Israel. Examination and analysis of hull remains and associated artifacts from central coast area. Primary investigator of Byzantine vessel Dor D during excavation in Tantura Lagoon.

May - September 1998

Lead Archaeologist: Institute of Nautical Archaeology, Bozburun project, Turkey (9th-century CE merchant ship). Duties: Excavation, artifact recovery, co-leader of wooden artifact team: mapping, recovery, cataloging, and recording of timber remains.

January - May 1998

Instructor - Developed and was sole lecturer for undergraduate survey course entitled 'Introduction to Roman Archaeology'.

January - May 1998

Instructor - Blinn Community College. Courses taught: Introduction to Anthropology, Peoples and Culture.

August - December 1997

Instructor - Blinn Community College. Course taught: Introduction to Anthropology.

August 1997 - May 1998

Researcher - Digitized timber tracings using AutoCad 14 from the Brown's Ferry vessel excavation, South Carolina.

January - May 1997

Graduate Research Assistant - Researched and created artifact distribution maps for materials from the Ulu Burun Bronze-Age Shipwreck Excavation.

May - December 1996

Graduate Assistant - Society of Historical Archaeology Conference registration, mailing, and database management.

January - May 1996

Graduate Research Assistant - Institute of Nautical Archaeology/Center for Maritime Studies Tantura Lagoon Project, Israel; constructed a research model of the Tantura A vessel based on examination of archaeological data from excavation of vessel and corollary vessels from period.

October - December 1995

Archaeological Field Work: Institute of Nautical Archaeology/ Center for Maritime Studies Tantura Lagoon Project, Israel (Tantura A: 5th/6th-century CE coastal trader). Duties: Head of site mapping, timber recording, artifact data bases, computerized site plan.

May - September 1995

Archaeological Field Work: Institute of Nautical Archaeology Bozburun project, Turkey (9th-century CE merchantman). Duties: Excavation, mapping of *in situ* artifacts, artifact measurement, drawing and recording; maintaining artifact catalogs.

May - August 1994

Assistant Director: University of Colorado/ Italian Ministry of Archaeology, Oppido Mamertina Project, Italy (3rd-century BCE through 2nd-century CE Bruttian/Roman city). Duties: Excavation supervision, mapping, stratigraphic analysis, artifact recording and cataloging.

August 1993 - May 1994

Graduate Teaching Assistant, Department of Anthropology, University of South Carolina. Taught weekly class in graduate and undergraduate statistics. Statistical research.

May - August 1993

Field Supervisor: University of Colorado/ Italian Ministry of Archaeology, Oppido Mamertina Project, Italy (3rd-century BCE through 2nd-century CE Bruttian/Roman city). Duties: Excavation supervision, mapping, artifact cataloging.

August 1992 - May 1993

Graduate Research Assistant, Department of Anthropology, University of South Carolina. Developed and implemented an archaeological data base for Recuay (Peruvian) funerary pottery.

May - June 1992

Archaeological Field Work: University of North Carolina - Charlotte, Pre-contact/Contact Native American site, Spratt Plantation, South Carolina. Duties: Excavation, mapping, surveying.

PUBLICATIONS and REPORTS

CURRENTLY WRITING

"Shipwreck evidence for Corinthian Shipping along the Illyrian Coast."

"The Levanzo I Wreck and its Implications for Roman Trade in the Later Roman Empire", with Dr. Sebastiano Tusa.

"A Warship Ram from the Egadi Island", with Dr. Sebastiano Tusa.

"Illyrian Coastal Survey 2007-09: Roman-era Finds."

2010

"At the Transition from Late Medieval to Early Modern: the Archaeology of Three Deepwater Finds from Turkey." with Dr. John McManamon, *International Journal of Nautical Archaeology*, (in press), published online.

2009

"The Egadi Islands Survey: 2005-08." *Euploia* 1.1 (in press).

"Albanian Coastal Survey Project: 2008 Field Season." *INA Annual*, pp. 21-25.

"Exploring the Shores of Ancient Illyria." *INA Annual*, pp. 26-28.

"Three Renaissance Wrecks from Turkey and Their Implications for Maritime History in the Eastern Mediterranean." with Dr. John McManamon, *Journal of Maritime Archaeology* 4.2 (in press).

"2009 Egadi Islands Survey - Levanzo I Excavation", Excavation and survey Report to the Uffizia di Soprintendenza del Mare - Regione Siciliana, Palermo, Sicily.

"2009 Field Report – Southern Sicily Coastal Survey, Sicily", Survey Report to the Uffizia di Soprintendenza del Mare - Regione Siciliana, Palermo, Sicily.

"2009 Field Report – Capo lo San Vito Survey, Sicily", Survey Report to the Uffizia di Soprintendenza del Mare - Regione Siciliana, Palermo, Sicily.

"The Albanian Coastal Survey: 2009 Fieldseason Report." Survey Report to the Albanian Institute of Archaeology, Tirana, Albania.

"Montenegro Coastal Survey - 2009 Field Report", Survey Report to the Center for Protection of Cultural Heritage, Ministry of Culture, Montenegro.

2008

"Archaeology and Technology: Exploring History in the Mediterranean." *The Journal of Ocean Technology*, 3.4, pp. 29-35.

"RPM Eastern Mediterranean Deepwater Survey", *American Journal of Archaeology*, 112.2, pp. 17-20.

"Description and Analysis of the Finds from the 2006 Turkish Coastal Survey: Marmaris and Bodrum", *International Journal of Nautical Archaeology*, 37.1, pp. 88-99.

"Discovery of Ancient Harbour Structures in Calabria, Italy and Implications for the Interpretation of Nearby Sites", *International Journal of Nautical Archaeology*, 37.1, pp. 49-63.

"The Levanzo I Wreck and the Distributio of Tubi Fittili", *Proceedings of the RAS Foundation Meetings, Castellammare di Stabia, Italy, November 3-6, 2007*, in press.

"The Discovery of a Medieval Galley in Turkey. A Response", *International Journal of Nautical Archaeology*, 37.2, pp. 388-9.

"2008 Field Report – Egadi Islands, Sicily", Survey Report to the Uffizia di Soprintendenza del Mare - Regione Siciliana, Palermo, Sicily.

"The Albanian Coastal Survey: 2008 Fieldseason Report." Survey Report to the Albanian Institute of Archaeology, Tirana, Albania.

2007

"The Albanian Coastal Survey: 2007 Fieldseason." News and Notes, *INA Quarterly*, 34.4 (2007).

"2007 Field Report – Egadi Islands - Sicily", Survey Report to the Uffizia di Soprintendenza del Mare - Regione Siciliana, Palermo, Sicily.

"The Albanian Coastal Survey: 2007 Fieldseason Report." Survey Report to the Albanian Institute of Archaeology, Tirana, Albania.

2006

"Beyond the Shallows: Shipwreck Discoveries from the 2005 Bozburun Peninsula Survey, Turkey", *INA Quarterly*, 33.2 (2006).

"The Remote-Sensing Survey of the Southeastern Bozburun Peninsula, Turkey: Shipwreck Discoveries and their Analyses", *International Journal of Nautical Archaeology*, 35.2 (2006).

"RPM 2006 Survey Report – Turkey", *Survey Report to the Turkish Ministry of Culture and Tourism and the Institute of Nautical Archaeology*.

- "RPM 2006 Survey Report – Sicily", Survey Report to the Uffizia di Soprintendenza del Mare - Regione Siciliana, Sicily, Italy.
- "INA-RPM Crotone 2005 Survey", *Report to the Soprintendenza de Calabria*, with Dante Bartoli.
- 2005
- "New Dating Evidence for the Dor D Timbers", with Dr. Ya'acov Kahanov. *International Journal of Nautical Archaeology*, 34.2(2005), pp. 308-13.
- "Archaeological Field Report: 2005 SE Bozburun Peninsula Survey." Submitted to the Turkish Ministry of Culture and Tourism.
- 2004
- "INA-RPM Locri Epeziphiri 2004 Survey", *Report to the Soprintendenza de Calabria*, with Dante Bartoli.
- "RPM-INA-CAS Golfo de Cadiz 2004 Survey", *Report to the Andalucian Ministry of Culture*.
- 2003
- "Cultural Resource Impact Assessment", in EIS Report for the *Tennessee Valley Authority Change in Operating Procedures*, TVA Reports, with Deborah Joy.
- "Cultural Resource Predictive Model for the Santeetlah Lake Reservoir in The Tapoco Hydroelectric Project", *EIS for Changes in Operating Procedures*, Alcoa Power Generating Inc.
- "Tantura A: Hull Construction Report", "Trench IX, Preliminary Analysis of Vessel Remains" and "Trench VII: Analysis of Timber Remains" with Dr. Ya'acov Kahanov; "Tantura A: Research Model", in *The INA/CMS Joint Expedition to Tantura Lagoon Final Excavation Report: 1994 – 1996*, Texas A&M University Press, College Station.
- 2002
- The Development and Utilization of Ship Technology in the Roman World in Late Antiquity: third to seventh century AD*. Dissertation, Department of Anthropology, Texas A&M University.
- "Analysis of the Dor D Vessel's Wood Remains", with Dr. Ya'acov Kahanov. *International Journal of Nautical Archaeology*, 30.2 (2001) 257-265.
- "The Tantura A and B Wrecks: An Overview of the Discoveries and their Place in Ancient Mediterranean Shipbuilding", contributed chapter to *Contributions in Honor of Professor J. Richard Steffy*, with Dr. Ya'acov Kahanov and Dr. Jerome Hall, Texas A&M University Press, College Station.
- 2000
- "An Arab-Period Vessel from Tantura Lagoon, Israel", with Dr. Ya'acov Kahanov, *International Journal of Nautical Archaeology*, 23.1 (2000).
- 1999
- "Effects of Ship Technology on the Rise and Evolution of the Vandalic Kingdom of North Africa in the 5th – 6th Centuries AD." *Proceedings from the Anthropology Graduate Symposium*, University Museum, University of Pennsylvania, University Museum, Pennsylvania.
- 1996
- "The INA/CMS Joint Expedition to Tantura Lagoon Excavation Report: Tantura A – Hull Construction". *CMS Newsletter*, Fall 1996; (with Ya'acov Kahanov).

1994

A Regional Systems Analysis of Sybellian Cultural Development: 800 - 44 BC. Thesis, University of South Carolina.

PAPERS and PRESENTATIONS

2009

“Pan-Illyria and Sicily 2009.” Paper Delivered, the Institute of Nautical Archaeology Annual Meeting. September, 2009, Washington, D.C.

“The Albanian Coastal Survey: 2007-8 Campaigns.” Paper Delivered, Archaeological Institute of America Annual Meeting, January 2009, Philadelphia.

2008

“Albanian Coastal Survey: The 2008 Fieldseason.” Paper Delivered, the Institute of Nautical Archaeology Annual Meeting. November, 2008, New York, NY.

2007

“The Initial Campaign of Coastal Survey in Albania, the Report on the 2007 Fieldseason.” Paper Delivered, The Institute of Nautical Archaeology Annual Meeting. Dallas, TX.

“The Levanzo I Wreck and a Reassessment for the Distribution of *Tubi Fittili* and the *Annona* system.” , RAS Foundation Conference, Castellammare di Stabia, Italy.

“The Levanzo I Wreck and a Reassessment for the Distribution of *Tubi Fittili* in the Central Mediterranean.” Paper Delivered at Late Antique Scholarship: 25 Years After Yassiada in Honor of Dr. George Bass and Dr. Fred van Doorninck, College Station, Texas.

2006

“RPM 2006 Mediterranean Expedition”, Paper Delivered, The Institute of Nautical Archaeology Annual Meeting. Dallas, TX.

“Exploring the Ancient Mediterranean.” Paper Delivered, The Key West Maritime Historical Society, Key West, Florida.

2005

“A Mediterranean Periplus - RPM in 2005.” Paper Delivered, The Institute of Nautical Archaeology Annual Meeting, Explorers Club, New York.

“RPM Nautical Foundation: Old World Projects.” Paper Delivered, The RPM Nautical Foundation Annual Meeting, New York.

“The RPM 2004 Mediterranean Survey Season.” Paper Delivered, Archaeological Institute of America annual meeting, January 2005, Boston.

2004

“The Configuration and Characteristics of Mediterranean Warships: 200-700 CE.” Paper Delivered, International Medieval Studies Conference. Kalamazoo, MI.

“Report on the INA-RPM 2004 Project Season.” Paper Delivered. The Institute of Nautical Archaeology Annual Meeting. Dallas, TX.

- 2003
 "Project Overview for the INA-RPM Partnership: 2004." Paper Delivered. The Institute of Nautical Archaeology Annual Meeting. Dallas, TX.
- 2001
 "Changing Morphologies of Merchantman Hulls and Amphora Shapes and the Implications for Late Antiquity/Early Byzantine Trade." Paper Delivered, Byzantine Studies Conference, University of Notre Dame, South Bend, Indiana.
- 2000
 "The 2000 Excavations at Dor Harbor, Israel and their place in the trends of Late Antiquity". Paper Delivered, International Symposium on Boat and Ship Archaeology, Venice, Italy.
- 1998
 "Effects of Ship Technology on the Rise and Evolution of the Vandalic Kingdom of North Africa in the 5th - 6th Centuries AD." Paper Delivered. Anthropology Graduate Symposium, Center for Ancient Studies and University of Pennsylvania, Philadelphia.
- 1997
 "Early Evidence for Frame-First Construction in the Eastern Mediterranean". Paper Delivered. Society of Historical Archaeology/Center for Underwater Archaeology Annual Meeting, Corpus Christi, Texas.
- 1994
 "Development of a Regional Systems Model". Paper Delivered. Southern Anthropological Association Annual Meeting, Atlanta, Georgia.

AWARDS, ASSISTANTSHIPS, GRANTS, and FELLOWSHIPS

- December 2001, Byzantine Studies Conference Student Travel Award.
 1999-2001, The Leon Recanati Center for Maritime Studies Research Fellow
 January - May 1998, Department of Nautical Archaeology Graduate Teaching Assistantship
 August 1997 - May 1998, Institute of Nautical Archaeology Work Study
 1995-96, 1996-97, 1997-98, Texas Professional Educational Grant
 1995 and 1998, Mrs. Jack Smothers Traveling Fellowship
 August 1996 - May 1997, Institute of Nautical Archaeology Graduate Research Assistantship
 May - July 1996, Institute of Nautical Archaeology Graduate Research Assistantship
 January - May 1996, Institute of Nautical Archaeology Graduate Research Assistantship
 August 1993 - May 1994, Department of Anthropology, University of South Carolina Graduate Teaching Assistantship
 August 1992 - May 1993, Department of Anthropology, University of South Carolina Graduate Research Assistantship

CURRENT RESEARCH

- Greco-Roman trade and settlement along the Illyrian coast.
- The distribution of vaulting tubes and the inter-relation of their transport in the central Mediterranean.
- Assessment of warships, strategy, and tactics used in the Mediterranean during the 3rd - 1st century BCE.

- The development of Mediterranean ship construction in Roman and Late-Antiquity periods and the relationship of changes in amphora morphology with implications towards overseas trade.
- Analysis of Roman-period lead anchor stocks.
- Crises of the 4th-and 5th-century CE Roman world and their relation to the collapse of the Western Empire.