

**Vita**  
**Stephen H. Savage**

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**E-MAIL:** [shsavage@asu.edu](mailto:shsavage@asu.edu)  
**PERSONAL URL:** <http://gailab.asu.edu/Jordan>  
**GAIA LAB URL:** <http://gailab.asu.edu/home>

**EDUCATION:** **Hands on Technical Training** – Java Programming (2005)  
**ESRI Training** - Introduction to ArcGIS I & II (2004)  
**Microsoft MCDBA Certification Courses (2002-2003):**  
Windows 2000 Professional and Server  
Administering a Microsoft SQL Server 2000 Database  
Programming a Microsoft SQL Server 2000 Database  
Mastering Enterprise Development Using Microsoft Visual Basic 6  
**Ph.D., 1995**, Arizona State University, Tempe, AZ. (Anthropology/Archaeology).  
**M.A., 1989**, Univ. of S. Carolina, Columbia, SC. (Anthro. /Public Archaeology).  
**Certificate, 1982**, Control Data Institute, Atlanta, GA. (Computer Programming).  
**M.A. Course Work, 1978**, Cincinnati Bible Seminary, Cinti. OH. (Antiquities).  
**B.A., 1978**, Cincinnati Bible Seminary, Cinti., OH. (Ancient Near Eastern Studies).

**DISSERTATION:** *Descent, Power, and Competition in Predynastic Egypt: Mortuary Evidence from Cemetery N7000 at Naga-ed-Dêr.*

**MA THESIS:** *A Geographic Information Systems Approach to the Late Archaic Landscape of the Savannah River Valley, Georgia and South Carolina.*

**RESEARCH INTERESTS:**

Old World Archaeology (SW Asia, North Africa); Neolithic-Bronze Age Southern Levant; Predynastic Egypt; Urbanism, Migration and Trade, Paleo-environments, Mortuary and Spatial Analysis; Archaeometry; Geographic Information Systems; New World Prehistory (U.S.Southeast-Archaic, Southwest-Hohokam); Computer Applications in Archaeology.

**PROFESSIONAL EXPERIENCE:**

**Visiting Research Scientist**, Center of Interdisciplinary Science for Art, Architecture and Archaeology (CISA3), California Institute for Telecommunications and Information Technology (Calit2), University of California, San Diego. (1/08 to present).

**IT Manager**, Archaeological Research Institute, School of Human Evolution & Social Change, Arizona State University, Tempe, AZ (1/07 to present).

**Director**, Geo-Archaeological Information Applications Lab, School of Human Evolution & Social Change, Arizona State University, Tempe, AZ (4/05 to present).

**Associate Director**, Getty Conservation Institute-World Monuments Fund Iraq Cultural Heritage Conservation Initiative. (3/04 to 12/06).

**ACOR/NEH Senior Fellow**, American Center for Oriental Research, Amman, Jordan. (9/03 to 12/03).

**Research Professional / Affiliated Professor**, School of Human Evolution & Social Change, Arizona State University, Tempe, AZ (08/98 to present).

**PROFESSIONAL EXPERIENCE**, continued:

**GIS Network Manager**, State Historic Preservation Office, Arizona State Parks, Phoenix, AZ (9/98 to 3/04).

**Assistant Professor**, Department of Archaeology and Art History, Eastern Mediterranean University, Gazimagusa, (via Mersin 10), Turkey. 9/97 to 8/98 (1 year contract).

**Honorary Fellow**, Dept. of Anthropology, University of Wisconsin, Madison, WI. 9/96 to 8/97.

**Visiting Assistant Professor**, Old World Archaeology, Department of Anthropology and Sociology, Kutztown University of Pennsylvania, Kutztown, PA. 8/96 to 12/96.

**Visiting Assistant Professor**, Old World Archaeology, Department of Anthropology, University of Wisconsin, Milwaukee. 8/94 to 7/96.

**Teaching Associate/Teaching Assistant**, Department of Anthropology, Arizona State University, Tempe. 8/90 to 7/94, (1/93 to 7/94 as Teaching Associate).

**Research Assistant/Research Fellow**, Department of Anthropology/Egyptian Studies Association, University of South Carolina, Columbia. 8/87 to 6/90.

**Computer Programmer/Systems Analyst**, Atlanta, Georgia. 9/82 to 6/86.

**Archaeologist/Consultant**, Claude Terry and Associates, Atlanta, Georgia. 06/81 to 05/82.

**Survey Archaeologist**, Soil Systems, Inc., Marietta, Georgia. 10/78 to 10/80.

**Archaeological Volunteer**, Smithsonian Institution Excavation at Tell Jemmeh, Israel. Summers 1976-77.

**PUBLICATIONS:**

- 2013 “Archaeological Remote Sensing in Jordan’s Faynan Copper Mining District with Hyperspectral Imagery” In *Mapping Archaeological Landscapes from Space: In Observance of the 40th Anniversary of the World Heritage Convention*, pp. 97-110, edited by D. Comer and M. Harrower. New York, Springer. With T. Levy and I. Jones.
- 2013 *Climate Change and Human Impact on Ancient and Modern Settlements: Identification and Condition Assessment of Archaeological Sites in the Northern Levant from Landsat, ASTER and CORONA Imagery*. Final Report, NASA Space Archaeology Solicitation: NNH07ZDA001N-SAP. With S. Rempel.
2012. “Prospects and Problems in the Use of Hyperspectral Imagery for Archaeological Remote Sensing: A Case Study from the Faynan Copper Mining District, Jordan.” With T. E. Levy and I. W. Jones. *Journal of Archaeological Science* 39:407-420.
- 2011 “From Maadi to the Plain of Antioch: What Can Basalt Spindle Whorls Tell Us About Overland Trade in the Southern Levant During the Early Bronze Age?” In *Daily Life, Materiality, and Complexity in Early Urban Communities of the Southern Levant: Celebrating the Contributions of Walter Rast and Thomas Schaub*, pp. 95-114, edited by M. Chesson. Winona Lake: Eisenbrauns.

**PUBLICATIONS, continued:**

- 2010 "On-Site Digital Archaeology 3.0 and Cyber-Archaeology: Into the Future of the Past – New Developments, Delivery and the Creation of a Data Avalanche." In *Introduction to Cyber-Archaeology*. Edited by M. Forte, pp. 135-153. Oxford: Archaeopress. With Levy, T. E., V. Petrovic, T. Wypych, A. Gidding, K. Knabb, D. Hernandez, N. G. Smith, J. P. Schlulz, F. Kuester, E. Ben-Yosef, C. Buitenhuis, C. J. Barrett, M. Najjar, and T. DeFanti.
- 2010 Jordan's Stonehenge: The Endangered Chalcolithic/Early Bronze Age Site at Al-Murayghât–Hajr al-Mansûb. *Near Eastern Archaeology* 73:1 32-46.
- 2009 The Digital Archaeological Atlas of the Holy Land. In *Global Moments in the Levant*, pp. 242-255, edited by Leif Manger and Øystein LaBianca. Bergen: Unifob Global and University of Bergen. With T. Levy and Ø. LaBianca.
- 2009 The Bronze Age Political Landscape of the Southern Levant. In *Politics and Power: Archaeological Perspectives on the Landscapes of Early States*, pp. 125-151, edited by S. Falconer and C. Redman. Tucson: University of Arizona Press. With S. Falconer.
- 2007 "Controlling Space at the Regional Level: Geographic Information Systems (GIS) and JADIS in Jordan" In *Crossing Jordan: North American Contributions to the Archaeology of Jordan*, pp. 37-46, edited by T. Levy, M. Daviau, R. Younker, and M. Shaer. London: Equinox Publishing Ltd.
- 2007 "The Early Bronze Age City States of the Southern Levant: Neither Cities Nor States" In *Crossing Jordan: North American Contributions to the Archaeology of Jordan*, pp. 285-297, edited by T. Levy, M. Daviau, R. Younker, and M. Shaer. London: Equinox Publishing Ltd. With S. Falconer and T. Harrison.
- 2005 Archaeology in Jordan, 2004 Season, (lead editor), *American Journal of Archaeology* 109(3): 527-556. With Kurt A. Zamora, and Donald R. Keller.
- 2004 "Jordan Antiquities Department Manages Archaeological Sites with GIS." *ArcNews*, Spring, Earth Sciences Research Institute.
- 2004 "The New Version of the JADIS Database for the Department of Antiquities of Jordan." *Annual of the Department of Antiquities of Jordan* XLVIII: 141-146.
- 2004 Archaeology in Jordan, 2003 Season, (lead editor), *American Journal of Archaeology* 108(3): 429-445. With Kurt A. Zamora, and Donald R. Keller.
- 2004 The JADIS Project. In "Archaeology in Jordan, 2003 Season," *American Journal of Archaeology* 108(3): 429-431. Edited by Stephen H. Savage, Kurt A. Zamora, and Donald R. Keller.
- 2004 Review of E. C. M. van den Brink and Thomas E. Levy, Eds. *Egypt and the Levant: Interrelations from the 4th through the Early 3rd Millennium b.c.e.* *Bulletin of the American Schools of Oriental Research* 334:75-77.
- 2003 Spatial and Statistical Inference of Late Bronze Age Politics in the Southern Levant. *Bulletin of the American Schools of Oriental Research* 330:31-45. With Steven Falconer.
- 2003 Settlement Diversity and Multivariate Production: The Evidence for Heterarchy in the EBA Levant. *Journal of Mediterranean Archaeology* 16(1):33-57. With T. Harrison.

**PUBLICATIONS, continued:**

- 2003 Archaeology in Jordan, 2002 Season, (lead editor), *American Journal of Archaeology* 107(3): 449-475.
- 2003 New Satellite Imagery and Digital Terrain Models of Jordan. In "Archaeology in Jordan, 2002 Season," edited by S. Savage, K. Zamora and D. Keller, *American Journal of Archaeology* 107(3): 451.
- 2003 Moab Archaeological Resource Survey. In "Archaeology in Jordan, 2002 Season," edited by S. Savage, K. Zamora and D. Keller, *American Journal of Archaeology* 107(3): 451-453.
- 2002 The Moab Archaeological Resource Survey: Test Excavations and Faunal Analysis from the 2001 Field Season. *Annual of the Department of Antiquities of Jordan* XLVI: 107-124. With Mary Metzger.
- 2002 "Archaeology in Jordan, 2001 Season" (lead editor), *American Journal of Archaeology* 106(3): 435-458. With Kurt Zamora and Donald Keller.
- 2002 Online Satellite Data and Digital Imagery of Jordan. In "Archaeology in Jordan," edited by S. Savage, K. Zamora and D. Keller, *American Journal of Archaeology* 106(3): 435.
- 2002 The Moab Archaeological Resource Survey. In "*First International Conference on Science and Technology in Archaeology and Conservation, (August 12-17, 2002)*" pp. 425-446. Edited by T. Akasheh. Granada, Fundación El Legado Andalusi.
- 2001 The Dolmen Field at al-Murayghat. *Archeologia*. Institute of Archaeology and Ethnology of the Polish Academy of Science, Warsaw. With Ela Dubis.
- 2001 The Moab Archaeological Resource Survey: Some Results from the 2000 Field Season. *Annual of the Department of Antiquities of Jordan*, XLV: 217-236. With G. Rollefson.
- 2001 Toward an AMS Radiocarbon Based Chronology of Predynastic Egyptian Ceramics. In "Proceedings of the 17<sup>th</sup> International Radiocarbon Conference, Jerusalem." *Radiocarbon*. 43(3, part 3): 1255-1278.
- 2001 "Archaeology in Jordan, 2000 Season" (lead editor), *American Journal of Archaeology* 105(3): 427-461. With Kurt Zamora and Donald Keller.
- 2001 The 2000 Field Season of the Moab Archaeological Resource Survey. In "Archaeology in Jordan," edited by S. Savage, K. Zamora and D. Keller, *American Journal of Archaeology* 105(3): 431-433.
- 2001 Jordanian Archaeological Sites Online. In "Archaeology in Jordan," edited by S. Savage, K. Zamora and D. Keller, *American Journal of Archaeology* 105(3): 427.
- 2001 Some Recent Trends in the Archaeology of Predynastic Egypt. *Journal of Archaeological Research* 9(2): 101-155).
- 2001 Urban Life in the Highlands of Central Jordan: A Preliminary Report of the 1996 Tall Madaba Excavations. *Annual of the Department of Antiquities of Jordan*, XLIV: 211-229. With T. Harrison, B. Hesse and D. Schnurrenberger.
- 2001 The Upper Egyptian Predynastic Tradition. *The Encyclopedia of World Prehistory – Volume I, Africa*, pp. 287-312. P. Peregrine & M. Ember, eds. Plenum Press, New York.

**PUBLICATIONS, continued:**

- 2000 The Status of Women in Predynastic Egypt as Revealed through Mortuary Analysis. In *Reading the Body: representations and remains in the archaeological record*, pp. 77-94, edited by A. Rautman. University of Pennsylvania Press, Philadelphia.
- 1998 AMS <sup>14</sup>Carbon Dates from the Predynastic Egyptian Cemetery, N7000, at Naga-ed-Dêr. *Journal of Archaeological Science* 25(3): 235-249.
- 1997 Descent Group Competition and Economic Strategies in Predynastic Egypt. *Journal of Anthropological Archaeology* 16(4): 226-268.
- 1997 Tell Madaba. In "Archaeology of Jordan," edited by P. Bikai and V. Egan. *American Journal of Archaeology* 101(3):508-510. With Timothy Harrison.
- 1997 Assessing Departures from Log-normality in the Rank-Size Rule. *Journal of Archaeological Science* 24(3): 233-244.
- 1995 Heartlands and Hinterlands: Alternative Trajectories of Early Urbanization in Mesopotamia and the Southern Levant. *American Antiquity* 60(1): 37-58. With Steven E. Falconer.
- 1993 Preliminary Report: The 1991 Boston University Excavations at Halfiah Gibli and Semaineh, Upper Egypt. *Newsletter of the American Research Center in Egypt* 1993(2):11-16. With Kathryn Bard.
- 1990 Geographic Information Systems in Archaeological Research. In *Interpreting Space: GIS and Archaeology*, pp. 22-31, edited by K. Allen, S. Green, and E. Zubrow. Taylor and Francis, London.
- 1990 Modeling the Late Archaic Social Landscape with Geographic Information Systems. In *Interpreting Space: GIS and Archaeology*, pp. 330-355, edited by K. Allen, S. Green, and E. Zubrow. Taylor and Francis, London.
- 1989 *Late Archaic Landscapes: A Geographic Information Systems Approach to the Late Archaic Landscape of the Savannah River Valley, Georgia and South Carolina*. Anthropological Studies 8, Occasional Papers of the South Carolina Institute of Archaeology and Anthropology, University of South Carolina, Columbia.

**SELECTED CRM REPORTS:**

- 1989 *Archaeological Investigations at the Darrell Creek Tract, Berkeley County, South Carolina*. Brockington and Associates, Atlanta, Ga. With P. Brockington, C. Espenshade and M. Roberts.
- 1989 *Archaeological Survey and Testing at the Thunderbird Tract, Beaufort County, South Carolina*. Brockington and Associates, Atlanta, Ga. With Eric Poplin.
- 1982 *Evaluative Testing of Sites 22MO676 and 22MO677, Monroe County, Mississippi, Tombigbee River Multi-Resource District*. U. S. Army Corps of Engineers, Mobile District. Claude Terry and Associates. With R. S. Webb.
- 1982 *An Archaeological Resource Assessment of Proposed Sewerage Improvements, Jackson County, Georgia*. G. Ben Turnipseed, Engineers. Claude Terry and Associates. With R. S. Webb.

**SELECTED CRM REPORTS**, continued:

- 1982 *An Archaeological Survey of the John H. Kerr Reservoir, Virginia and North Carolina.* U. S. Army Corps of Engineers, Wilmington Dist. Soil Systems, Inc. With Patrick H. Garrow, et al.
- 1981 *An Archaeological Survey of Proposed Facility Updates, Lakes Hartwell and Clark Hill, Georgia and South Carolina.* U. S. Army Corps of Engineers, Savannah District. Soil Systems, Inc. With R. S. Webb and Patrick H. Garrow.
- 1981 *A Cultural Resource Reconnaissance: Kimberly-Clark Corporation Deinking and Sanitary Tissue Manufacturing Facility, Augusta, Georgia.* J. E. Sirrene, Engineers. Soil Systems, Inc. With Patrick H. Garrow and Bertram Herbert.
- 1981 *An Archaeological Testing of a Temporary Railroad Related to the Construction of the Bartlett's Ferry Dam, Bartlett's Ferry, Alabama.* Georgia Power Company. Soil Systems, Inc. With Patrick H. Garrow, Jack Bernhardt and G. Michael Watson.

**ARCHAEOLOGICAL FIELDWORK, Old World:**

**Director, Moab Archaeological Resource Survey, Jordan.** Intensive mapping, surface collection, and archaeological excavation of Epipaleolithic to Byzantine settlement sites in the western Madaba Plain, pedestrian survey to discover additional sites. (2000-present).

**Co-Director, Tell Madaba Archaeological Project, Madaba, Jordan.** Excavations of Early Bronze I through Late Ottoman strata/features; development of GIS databases for Madaba, the Madaba Plain, and Jordan (1996-1999); conducted graduate level field school.

**Surveyor/Architect, Khirbet Iskander Archaeological Project, Wadi Wala, Jordan.** Architectural documentation of structures from the Early Bronze I - IV periods. Drew University (1997, 2000).

**Field Director,** Archaeological excavations at two Predynastic (Neolithic) settlements in the Hu-Semaneh region, Upper Egypt. Boston University Department of Archaeology (1991).

**Field Director,** Close interval cultural and topographic mapping of three Predynastic (Neolithic) sites located in the Hierakonpolis region (near Edfu), Upper Egypt (1990).

**Data Administrator,** Bally Lough Archaeological Project. Design and implementation of GIS and archaeological database for Neolithic and Mesolithic sites in southeastern Ireland (1989).

**Volunteer,** Intensive archaeological site survey of 56 km<sup>2</sup> around Tell Jemmeh, Israel, northwestern Negev. Sites identified from the Chalcolithic to the British Mandate periods. Smithsonian Institution (1977).

**Volunteer,** Archaeological excavation of Late Bronze and Iron Age fortification systems and structures at Tell Jemmeh, northwestern Negev, Israel. Smithsonian Institution (1976, 1977).

**Teaching Associate/Assistant Field Director,** Data recovery at three Sedentary Period Hohokam village sites in the Verde Bridge project corridor, Maricopa County, Arizona. Supervised 8-12 graduate students and Native American workers in block excavations of pit houses, cremation burials, and associated features.

**Crew Chief,** Archaeological excavations in the Tonto Basin, Arizona. Roosevelt Platform Mound Study, Office of Cultural Resource Management, Arizona State University.

**ARCHAEOLOGICAL FIELDWORK, New World (Includes CRM Projects):**

**Crew Chief**, Archaeological survey of impact area of a proposed road improvement, Horseshoe Reservoir, Maricopa County, Arizona. Northland Research, Inc.

Data recovery at a late 19th century Pima cemetery, Maricopa Road Project, Maricopa County, Arizona. Office of Cultural Resource Management, Arizona State University.

Archival research, Heritage Square Testing Project, Phoenix, Arizona. Northland Research, Inc.

**Field Director/Principal Author**, Archaeological survey of the Thunderbird Tract, on the Victoria Bluff portion of the Colleton River, Port Royal Sound, Beaufort County, South Carolina.

**Field Director/Principal Author**, Intensive archaeological investigation of the Darrell Creek Project Tract, Berkeley County, South Carolina, a late 18th to early 19th century plantation complex at the confluence of Darrell Creek and the Wando River

**Field Director/Principal Author**, Archaeological survey and testing of proposed facility updates at Lakes Hartwell and Clark Hill, Georgia and South Carolina.

**Field Director/Principal Author**, Archaeological survey of proposed channel modifications in the Little Lott's Creek drainage basin, Statesboro, Georgia.

**Field Director/Principal Author**, Archaeological survey of the proposed improvements at the Marietta First Baptist Church campground, Lake Allatoona, Cherokee County, Georgia.

**Field Director**, Archaeological reconnaissance of the proposed Tired Creek State Park, Grady County, Georgia.

**Field Director**, Architectural and photographic documentation of the C. Ralph Smith House and the Fouche-Hardy Farm Complex, nineteenth century vernacular structures in the Texas Valley region of Floyd County, Georgia.

**Field Director**, Architectural and photographic documentation of five nineteenth century vernacular structures in the Texas Valley region of Floyd County, Georgia.

**Assistant Field Director/Principal Author**, Archaeological reconnaissance on the site of a proposed Kimberly-Clark deinking pulp mill and sanitary tissue manufacturing facility, Richmond and Burke Counties, Georgia.

**Assistant Field Director/Principal Author**, Evaluative testing of Sites 22MO676 and 22MO677, a Terminal Miller hamlet in the Aberdeen Lock and Dam section of the Tennessee-Tombigbee Waterway, Monroe County, Mississippi.

**Assistant Field Director/Surveyor**, Mapping and testing of an early twentieth century temporary railroad associated with the construction of the Bartlett's Ferry Dam, Bartlett's Ferry, Alabama.

**Assistant Field Director/Mapping Coordinator**, Archaeological testing and mapping of two proposed cross-station railroad corridor facilities, Berkeley County, South Carolina.

**Assistant Field Director**, Archaeological testing and data recovery of nineteenth century structures and associated features on the site of the proposed civic center, Washington, D.C.

Excavations at 38BK75 and 38BK76, two eighteenth to nineteenth century plantation sites in the corridor of the Cooper River Rediversion Canal, Berkeley County, South Carolina.

Excavations at 38BK245K, remains of an eighteenth to nineteenth century structure associated with naval stores production, Berkeley County, South Carolina.

**ARCHAEOLOGICAL FIELDWORK, New World, continued:**

**Mapping Coordinator**, Archaeological testing and block excavations at Middleburg Plantation, on the East Branch of the Cooper River in Berkeley County, South Carolina. Supervised random stratified testing on the site of 18th century slave houses, conducted site mapping in order to produce a computer generated topographic map with Surface 2 and the University of South Carolina mainframe computer.

Archaeological Data Recovery on three 19th century plantation slave row sites on the Haig Point Tract, Daufuskie Island, South Carolina.

Ceramic analysis of materials collected during excavations in the Cooper River Rediversion Canal, Berkeley County, South Carolina.

Archaeological assessment of proposed sewerage improvements, Jackson County, Georgia.

Archaeological survey of the proposed Lucama-Black Creek 201 Facilities Site, Wilson County, North Carolina.

Archaeological testing and mapping of two prehistoric sites in the corridor of the Colonial Pipeline Company petroleum products pipeline crossings of the Etowah and Oostanaula Rivers, Floyd County, Georgia.

Archaeological Data Recovery at two prehistoric shell midden sites and one historic plantation site in the Palmetto Fort Tract, Berkeley County, South Carolina.

Data recovery at 9CO205, 9CO204 and 9CO202, three segments of Confederate trench lines occupied during the Battle of Gilgal Church, June 15-16, 1864, Sherman's Atlanta Campaign.

Excavation of nineteenth century structures and features associated with the beginnings of urban industrialization, in the Wilmington Boulevard, Wilmington, Delaware.

Archaeological testing and mapping of a prehistoric site in the Heath Creek floodplain, Texas Valley region of Floyd County, Georgia.

Archaeological survey of a proposed 201-facility site on Chickamauga Creek, Georgia.

Archaeological survey of three proposed road relocations associated with construction of the Richard B. Russell Reservoir, Georgia and South Carolina.

Archaeological survey of the Colonial Pipeline Company petroleum products pipeline corridor crossings of the James River, Lynchburg, Amherst and Appomattox Counties, Virginia.

Archaeological testing of a twentieth century cabin site in the corridor of the proposed Wallace Dam-Eatonton Transmission Line, Putnam County, Georgia.

Archaeological survey at the John H. Kerr Reservoir, Virginia and North Carolina.

**GRANTS / AWARDS:**

**NASA Space Archaeology**, ca. \$69,000, 2010-2011, for "Climate Change and Human Impact on Ancient and Modern Settlements: Identification and Condition Assessment of Archaeological Sites in the Northern Levant from LandSat, ASTER and CORONA Imagery."

**Institute for Aegean Prehistory (INSTAP)** travel grant, \$3000, Summer 2009, for "Developing the Aegean Digital Archaeological Atlas" (ADAA); \$15,000, 2010, ADAA operations grant.



**GRANTS / AWARDS**, continued:

**NASA ASTER Satellite Images.** "Digital Archaeological Atlas of the Holy Land – Digital Elevation Models" \$80,000. Spring, 2007.

**National Endowment for the Humanities "Recovering Iraq's Past Grant"** for a cultural heritage inventory of Iraqi archaeological and historic sites, including development of an integrated archaeological/GIS database for cultural resource management. \$100,000. Spring 2004. With Gaetano Palumbo of the World Monuments Fund.

**Kaplan Foundation**, \$50,000 for development of the Iraqi Archaeological/GIS database. Spring 2004. With Gaetano Palumbo of the World Monuments Fund.

**National Endowment for the Humanities/American Center for Oriental Research Fellowship** for "Converting the JADIS Database to a GIS-Capable format." \$20,000. Fall 2003.

**National Science Foundation** research grant number BCS 9973067 for *Developing an AMS Radiocarbon Based Chronology for the Predynastic Egyptian Cemetery, N7000, at Naga-ed-Dêr 1999-2003*, \$50,000.

**Arizona State University Graduate and Professional Student Association.** Research grant for 1994 based on competitive proposal, "Inter-group Competition and the Development of Social Complexity in Predynastic Egypt", \$1800.

**Arizona State University, Department of Anthropology.** Teaching Associate award for 1992-1993 academic year, approximate amount \$11,000.

Winner of the inaugural (1992) **Reynold J. Ruppé Prize in Archaeology**, for the outstanding graduate paper of the year in the archaeology sub discipline, Department of Anthropology, Arizona State University, for the paper "A Monte-Carlo Simulation Study of the Rank-Size Rule in Settlement Archaeology".

**Arizona State University, Department of Anthropology.** Teaching Assistantship for 1991-1992 academic year, approximate amount \$11,000.

**Arizona State University, Graduate College.** Graduate Academic Scholarship, for 1991-92 academic year, approximate amount \$1600.

**Arizona State University, Department of Anthropology.** Summer Research Award, \$400.

**Arizona State University Regents Scholarship**, for 1990-91 academic year, \$6000.

**Department of Anthropology, Arizona State University,** Teaching Assistantship, Fall 1990, approximate amount \$5,500.

**Travel and Research Grant from the Egyptian Studies Association**, the Earth Sciences Resources Institute, University of South Carolina, for mapping and research on three Predynastic sites in Upper Egypt, \$1500, 1990.

**University of South Carolina Research and Productive Scholarship Award**, \$2300, 1989.

**University of South Carolina Family Fund Scholarship**, \$1,000, 1989-1990.

Graduate Assistantship funds from the **Department of Anthropology, University of South Carolina**, covering full tuition and stipend. Approximate amount: \$13,000 per year. 1987-1989.

## **COURSES TAUGHT:**

### **Graduate and Advanced Undergraduate Seminars:**

**Complex Societies of the Middle East** (Anthro 156-565), Anthropology Department, University of Wisconsin, Milwaukee.

**Post-Pleistocene Archaeology of the Old World** (Anthro 156-307), Anthropology Department, University of Wisconsin, Milwaukee.

**Prehistory of North America** (Anthro 156-308), Anthropology Department, University of Wisconsin, Milwaukee.

**Readings in Anthropology: Archaeology of the Southern Levant** (ANT 370), Anthropology Department, Kutztown University.

**Introduction to GIS** (a module of ANTH 540, Problem Solving in Archaeology), Department of Anthropology, University of South Carolina.

### **Undergraduate Lecture/Lab Courses:**

**Prehistory of the Southwest** (ASB 335, an "L1" Literacy and Critical Inquiry course which developed an Internet site at [eastcollege.east.asu.edu/swprehis](http://eastcollege.east.asu.edu/swprehis)), Arizona State University.

**Principles of Archaeology** (ASB 330), Anthropology Department, Arizona State University.

**Introduction to Archaeology** (ASM 294), Anthropology Department, Arizona State University. Also taught as ARC 111, Department of Archaeology and Art History, Eastern Mediterranean University.

**Digging Up the Past: Approaches to Archaeology** (Anthro 156-103), Anthropology Department, University of Wisconsin, Milwaukee.

### **Undergraduate Lectures:**

**Old World Prehistory II** (ASB 362), Anthropology Department, Arizona State University. Covers the development of agriculture and urbanism in the Old World.

**Buried Cities and Lost Tribes: Our Human Heritage** (ASB 222), Department of Cultural Science, Mesa Community College, Mesa, Arizona.

**Mythology in Cross-cultural Perspective** (ELH 262), Department of English Literature and Humanities, Eastern Mediterranean University.

**History of Near Eastern Civilizations** (HIS 205), Department of Archaeology and Art History, Eastern Mediterranean University.

**Introduction to Sociology** (SOC 101), Department of English Literature and Humanities, Eastern Mediterranean University.

**Cultural Anthropology** (ANT 101), Anthropology Department, Kutztown University.

**COURSES TAUGHT**, continued:

**World Prehistory** (ANT 240), Anthropology Department, Kutztown University.

**Introduction to Anthropology: Human Prehistory** (Anthro 156-101), Anthropology Department, University of Wisconsin, Milwaukee.

**Human Origins and the Development of Culture** (ASM 101), Anthropology Dept., ASU.

**WORKSHOPS CONDUCTED:**

**"CISA3 NSF IGERT Research & Jordan Archaeology World Cultural Heritage."** A workshop held at the University of California, San Diego for participants from the Department of Antiquities of Jordan and the American Center for Oriental Research, November 15-16, 2010.

**"The Digital Archaeological Atlas of the Holy Land and the Mediterranean Archaeological Network."** A workshop held at the University of California, San Diego for participants from the Indira Gandhi National Center of the Arts, October, 2009.

**"Offline data entry procedures for the Aegean Digital Archaeological Atlas."** Workshop held at the Tyler School of Art, Temple University, Philadelphia, PA in September 2009.

**"Methods for recovering site locations from published maps using Google Earth pro and Global Mapper."** Workshop held in the Study Center for East Crete, June, 2009.

**"The Iraq Archaeological GIS Database, Part II"** Conducted at the GCI-WMF Iraq Cultural Heritage Training Course, May, 2005, Amman, Jordan.

**"The Iraq Archaeological GIS Database, Part I"** Conducted at the GCI-WMF Iraq Cultural Heritage Training Course, 11-20-04 to 12-18-04, Amman, Jordan.

**"GIS, Satellite Imagery and Aerial Photography in Archaeological Analysis: An Example From the Western Madaba Plain, Jordan."** Presented at The First Arab Course in Archaeological Training: The Application of Modern Technologies in the Field of Archaeological Excavation and Conservation, Amman, October 1-16, 2003.

**PAPERS PRESENTED AT PROFESSIONAL CONFERENCES:**

**"Prospects and Problems in the Use of Hyperspectral Imagery for Archaeological Remote Sensing: A Case Study from the Faynan Copper Mining District, Jordan."** Presented at the NASA Space Archaeology workshop at Johns Hopkins University, 8-10 October, 2011.

**"Archaeological Remote Sensing with Hyperspectral Imagery: A Case Study from the Faynan Copper Mining District, Jordan."** Presented at the CISA3 NSF IGERT Research & Jordan Archaeology World Cultural Heritage Workshop, University of California, San Diego, November 16, 2010.

**"The Mediterranean Archaeological Network - A Cyberinfrastructure for Archaeological Research and Site Preservation Planning"** Presented at the U.S.-Egypt Fund for Science and Technology Cooperation "Space Technology and Geoinformation for Sustainable Development" in June 2010 in Cairo, Egypt.

**PAPERS PRESENTED AT PROFESSIONAL CONFERENCES** continued:

**"The MedArchNet (Mediterranean Archaeology Network)"** presented at the GIS and Remote Sensing Applications in Archaeology session of the Annual Meeting of the American Schools of Oriental Research, New Orleans, November, 2009.

**"Introduction to DAAHL website, data requirements, and harvesting data"** Presented at the Cyberinfrastructure for the *MedArchNet* (Mediterranean Archaeology Network) – Establishing the Digital Archaeology Atlas of the Holy Land (DAAHL) Node Workshop, University of California, San Diego. November 17, 2008.

**"Empowering Global Moments through the Digital Archaeological Atlas of the Holy Land."** Presented at the World Heritage Media Dragefjellet Conference University of Bergen, Norway. May 26, 2008.

**"The Digital Archaeological Atlas of the Holy Land as a Research and Heritage Preservation Tool."** Presented at the "Text, Tell and Empire" conference University of Oslo, Norway. May 29, 2008.

**"The JADIS Google Earth Application."** Presented in the "GIS, Remote Sensing and Archaeology" session, Annual Meeting of the American Schools of Oriental Research, Washington, DC, (November 15-18, 2006).

**"Documenting Cultural Heritage Sites in Iraq with an Integrated ArcGIS/MSAccess/SQL Server Database."** Presented at the "The Threat to Iraq's Cultural Heritage – Current Status and Future Prospects" workshop, 51e *Rencontre Assyriologique Internationale*, Oriental Institute, University of Chicago, (July 2005).

**"Delivering Archaeological Site and Project Metadata to CRM Specialists, Law Enforcement Officials and Planners in a Timely Manner through GIS: Examples from Jordan and Iraq."** Presented at the "Looted Past - digitized Future? Hot spots in the Near East and the protection of cultural property - how can computers help?" in Vienna, November 2004.

**"The New JADIS Database: Integrating Archaeological Site and Project Data, Satellite Images, Topographic Maps, and GIS into a Single Data Management Tool for the Protection of Archaeological Sites."** Presented at The First Arab Course in Archaeological Training: The Application of Modern Technologies in the Field of Archaeological Excavation and Conservation, Amman, October 1-16, 2003.

**"Social Heterarchy in the Early Bronze Age of Central Jordan: The Moab Archaeological Resource Survey."** Presented at the First International Conference On Science and Technology in Archaeological Conservation, The Hashemite University, Zarqa, Jordan, August, 2002.

**"The Moab Archaeological Resource Survey: 2000 and 2001 Field Seasons."** 2001 Annual Meeting of the American Schools of Oriental Research, November 14-17th, Boulder, CO.

**"From JADIS to the World Wide Web: Putting Jordan's Archaeological Sites Online."** 2001 Annual Meeting of the American Schools of Oriental Research, Nov. 14-17th, Boulder, CO.

**"Building an AMS Radiocarbon Chronology of Predynastic Egyptian Ceramics."** 66<sup>th</sup> Annual Meeting of the Society for American Archaeology, New Orleans, April 18-22, 2001.

**"A Comparative Study of Early Urbanism and Polity Formation in Lower Mesopotamia and the Southern Levant."** Presented in the symposium, "Tales of the City: Reexamining 'Urbanism' in the Early Bronze Age Levant," 66<sup>th</sup> Annual Meeting of the Society for American Archaeology, New Orleans, April 18-22, 2001. Co-authored with S. Falconer.

**PAPERS PRESENTED AT PROFESSIONAL CONFERENCES** continued:

**"Settlement Diversity and Multivariate Production: The Evidence for Heterarchy in the EBA Levant."** Presented in the symposium, "Tales of the City: Reexamining 'Urbanism' in the Early Bronze Age Levant," 66<sup>th</sup> Annual Meeting of the Society for American Archaeology, New Orleans, April 18-22, 2001. Co-authored with T. Harrison.

**"Toward an AMS Radiocarbon Chronology of Predynastic Egyptian Ceramics."** Presented at the symposium, Chronologies and Archaeology in the Near East and Eastern Mediterranean during the Bronze and Iron Ages, at the 17th International Radiocarbon Conference, Jerusalem, Israel. June 22, 2000.

**"Modes or Nodes? Alternatives Paths to Power in Predynastic Egypt."** Annual Meeting of the Society for American Archaeology, Chicago, 1999.

**"Shifting Settlement Systems in the South Levantine Bronze Age."** Annual Meeting of the American Anthropological Association, Philadelphia, December 1998.

**"Descent Group Competition and Economic Strategies in Predynastic Egypt."** In the symposium, "New Perspectives on the Origins of the Pristine State," Annual Meeting of the American Anthropological Association, San Francisco, November 1996.

**"The Status of Women in Predynastic Egypt as Revealed through Mortuary Analysis."** Fourth Conference on Gender and Archaeology, East Lansing, Michigan, October 1996.

**"Bronze Age Urbanism in the Southern Levant: Statistical Hypotheses Related to Settlement Systems and Polity Formation."** American Schools of Oriental Research Annual Meeting, Philadelphia, 1995. With Steven E. Falconer.

**"Sorting Out Social Organization in Predynastic Egypt."** Presented at the meeting of the Complex Society Group, Arizona State University, Tempe. October 1993.

**PROFESSIONAL AFFILIATIONS:**

American Schools of Oriental Research  
[ASOR Committee on Archaeological Research and Policy (CAP) – until December 2013]

American Research Center in Egypt  
Society for American Archaeology  
American Anthropological Association

**RELEVANT SKILLS:**

Archaeological Method and Theory; application of computer methods, including GIS (ArcView, MapObjects) Remote Sensing (MultiSpec, Global Mapper), AutoCad, Surfer, quantitative and spatial analysis; Programming capability in PHP, JavaScript, Visual Basic, Turbo Pascal, several earlier forms of BASIC, and Assembler Language; Computer simulation modeling; Database development and management; Operation of surveying instruments and equipment such as the total station, theodolite, transit, etc., preparation of site topographic maps; Architectural drafting and technical illustration; Working knowledge of Predynastic Egyptian ceramics and lithics, South Levantine ceramics and lithics; Archaeometry.

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