

Lisa Kealhofer

Anthropology and Environmental Studies and Sciences Departments, Santa Clara University
Santa Clara, CA 95053
Ph: 408 554 6810 Fax: 408 554 4189

EDUCATION

University of Pennsylvania, Anthropology Department, Philadelphia, PA, 1991
PhD Thesis: *Cultural Interaction during the Spanish Colonial Period: El Pueblo de Los Angeles, California*
Macalester College, St. Paul, MN, 1981
B.A. Anthropology and Chemistry

EXPERIENCE

Teaching and Administration

2006 -2013 Chair, Department of Anthropology, Santa Clara University
2006 (W&Spr) Acting Director, Environmental Studies Institute
2012- Professor, Santa Clara University, Departments of Anthropology/Environmental Studies and Sciences
2005-2012 Associate Professor, Santa Clara University, Department of Anthropology/Environmental Studies Program
1999-2005 Assistant Professor, Santa Clara University, Department of Anthropology and Sociology/Environmental Studies Program
1994-1999 Visiting Assistant Professor, The College of William and Mary, Anthropology Department
1990 Lecturer, Anthropology, Bryn Mawr College
1989-1990 Lecturer, University of Pennsylvania, College of General Studies

Research

School for Advanced Research, Seminar participant. The Thailand Archaeometallurgy Project: A Holistic Approach to Characterizing Metallurgy's Societal Impact in Prehistoric Southeast Asia, April 29 – May 1, 2014.
Cotsen Fellow, School for Advanced Research, After the Fall: Iron Age Interaction in Central Anatolia. Summer 2009.
Senior Fulbright Specialist, ICAES, Southeast Asia Environment and Phytoliths, 2004.
Senior Research Fellow, Colonial Williamsburg Foundation, Department of Archaeological Research, 1995-2000: Landscapes and environmental analysis: Historical human-environmental relationships
Research Associate, The University Museum, Philadelphia, PA, Museum Applied Science Center for Archaeology, Spring 1994-2007: Phytolith Analysis: Human-environmental interaction
Research Fellow, Anthropology Department, The Australian Museum, Sydney, Australia, 8-9/1997 & 5-7/1995: Phytolith Analysis of Lithic Residues, Garua Island, West New Britain, PNG
Mellon Postdoctoral Fellow, Smithsonian Tropical Research Institute (STRI), Panama, Paleoecology Section, 1991-1993: Phytolith analysis: Paleo-environments and Rice Agriculture, Central Thailand

PUBLICATIONS

Peer reviewed journal articles:

Grave, P., L. Kealhofer, B. Marsh, U. Dietrich Schoop, J. Seeher, J. W. Bennett, A. Stopic
2014 Ceramics, Trade, Provenience and Geology: Cyprus in the Late Bronze Age. *Antiquity* 88(342):xx
Aslan, C., L. Kealhofer and P. Grave
2014 The Early Iron Age at Troy reconsidered. *Oxford Journal of Archaeology*, 33(3) 275:312.
Liu, L., L. Kealhofer, X Chen, P. Ji
2014 A Broad-Spectrum Subsistence Economy in Neolithic Inner Mongolia, China: Evidence from Grinding Stones. *The Holocene*. 24(6): 726-742.
Marsh, B. and L. Kealhofer
2014 Scales of impact: settlement history and landscape change in the Gordion region, central Anatolia. *The Holocene*. 24(6): 689-701.

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Publications, continued

- Grave, Peter, Lisa Kealhofer, Pavol Hnila, Ben Marsh, Carolyn Aslan, Diane Thumm-Doğrayan, and Wendy Rieger
2013 Cultural dynamics and ceramic resource use at Late Bronze Age/Early Iron Age Troy, northwestern Turkey. *Journal of Archaeological Science* 40 (4): 1760-1777.
- Kealhofer, L., P. Grave, and B. Marsh
2013 Scaling Ceramic Provenience at Lydian Sardis, Western Turkey. *Journal of Archaeological Science* 40(4): 1918-1934.
- Grave, P., L. Kealhofer, B. Marsh, T. Sivas, and H. Sivas
2012 Reconstructing Iron Age Community Dynamics in Eskişehir Province, Central Turkey. *Journal of Archaeological Method and Theory*. 19(3): 377-406. DOI 10.1007/s10816-011-9119-y.
- Forster, Nicola, Peter Grave, Nancy Vickery and Lisa Kealhofer
2011 Non-destructive analysis using PXRF: methodology and application to archaeological ceramics. *X-Ray Spectrometry*. doi:10.1002/xrs.1360
- Kealhofer, L., P. Grave, B. Marsh, S. Steadman, R. Gorny, and G. Summers
2010 Patterns of Iron Age interaction in central Anatolia: three sites in Yozgat province. *Anatolian Studies* 60: 71-92.
- Grave, P., Kealhofer, L., Marsh, B., Sams, G.K., Voigt, M., & DeVries, K.
2009 Ceramic production and provenience at Gordion, Central Anatolia. *Journal of Archaeological Science*, 36(10), 2162-2176. IF 1.85
- Kealhofer, L., P. Grave, H. Genz, and D.B. Marsh
2009 Post-collapse: the Re-emergence of Polity in Iron Age Boğazköy. *Oxford Journal of Archaeology* 28(3), 275-300.
- Grave, P., L. Kealhofer, M.-H. Gates, and D.B. Marsh
2008 Using NAA to Identify Scales of Interaction at Kinet Höyük, Turkey, *Journal of Archaeological Science*. 35(7) 1974-1992.
- Kealhofer, L. and Grave, P.
2008 Land Use, Political Complexity and Urbanism in Mainland Southeast Asia. *American Antiquity* 73(2):200-225.
- Barker, G., Barton, H. Bird, M. Daly, P. Datan, I., Dykes, A., Farr, L. Gilbertson, D. Harrison, B., Hunt, C. Higham, T., Kealhofer, L., Krigbaum, J. Lewis, H., McLaren, S., Paz, V. Pike, A., Piper, P., Pyatt, B. Rabett, R. Reynolds, T. Rose, J. Rushworth, G. Stephens, M. Stringer, C., Thompson, J., and C. Turney
2007 The 'human revolution' in lowland tropical Southeast Asia: the antiquity and behavior of anatomically modern humans at Niah Cave (Sarawak, Borneo), *Journal of Human Evolution* 52(3):243-261. IF 3.55
- Huang Fei, L. Kealhofer, Xiong Shangfa, Huang Fengbao
2005 Holocene Grassland Vegetation, Climate, and Human Impact in Central Eastern Mongolia. *Science in China, Series D. Earth Sciences* 48(7): 1025-1039.
- Penny, D. and L. Kealhofer
2005 Microfossil Evidence of Land Use Intensification in Northern Thailand. *Journal of Archaeological Science*. 32: 69-82
- Sullivan, K. and L. Kealhofer
2004 Identifying activity areas in archaeological soils from a colonial Virginia house lot using phytolith analysis and soil chemistry. *Journal of Archaeological Science* 31: 1659-1673.
- White, J.C., D. Penny, L. Kealhofer, & B. Maloney
2004 Vegetation Changes from the Late Pleistocene through the Holocene from three areas of archaeological significance in Thailand. *Quaternary International* 113: 111-132.
- Kealhofer, L.
2003 Looking into the Gap: Land Use and the Tropical Forests of Southern Thailand. *Asian Perspectives* 42(1): 72-95.
- Kealhofer, L.
2002 Changing Perceptions of Risk: The Development of Agro-ecosystems in Southeast Asia, *American Anthropologist*. 104(1): 178-194.
- Grave, P. and L. Kealhofer
1999 Assessing Bioturbation in Archaeological Sediments Using Soil Morphology and Phytolith Analysis. *Journal of Archaeological Science* 26(10): 1239-48.

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Publications, continued

- Kealhofer, L., R. Torrence, and R. Fullagar
1999 Integrating Phytoliths within Use-wear/Residue Studies of Stone Tools. *Journal of Archaeological Science* 26: 527-546.
- Kealhofer, L. and D. Penny
1998 Fourteen Thousand Years of Environmental Change in Northeast Thailand. *Review of Palaeobotany and Palynology*. 103:83-93.
- Kealhofer, L.
2001 Linking Local to Global: An Integrated Archaeology of Capitalism. *Archaeological Dialogues*. 8(2):27-31
- Kealhofer, L. and D. Piperno
1998 Opal Phytoliths in Southeast Asian Flora. *Smithsonian Contributions to Botany* 88: 1-39.
- Kealhofer, L.
1996 Human Environmental Relationships in Prehistory: An Introduction to Current Research in South and Southeast Asia. *Asian Perspectives* 35(2): 1-15.
- Kealhofer, L.
1996 The Human Environment during the Terminal Pleistocene and Holocene in Northeastern Thailand: Phytolith Evidence from Lake Kumphawapi. *Asian Perspectives* 35(2): 202-238.
- Kealhofer, L. and D. Piperno
1994 Early Agriculture in Southeast Asia: Phytolith Evidence from the Bang Pakong Valley, Thailand, *Antiquity* 68(260): 564-572.

Edited books/journal issues:

- Kealhofer, L. (editor)
2005 *The Archaeology of Midas and the Phrygians*. University of Pennsylvania Museum Press, Philadelphia.
- Kealhofer, L. and M Graves (eds.)
1996 *Human-Environmental Relationships in Prehistory: Current Research in South and Southeast Asia*, *Asian Perspectives* 35(2). [dedicated volume]
- Baker, B. and L. Kealhofer (eds.)
1996 *Bioarchaeology of Native American Adaptation in the Spanish Borderlands*. University Press of Florida, Gainesville.

Peer reviewed book chapters:

- Kealhofer, L. and P. Grave,
2011 The Iron Age on the Central Anatolia Plateau, in *The Oxford Handbook of Ancient Anatolia 10,000-323 BCE*, edited by S. Steadman and G. McMahon, 415-442. Oxford University Press, New York.
- Fullagar, R., Field, J. and L. Kealhofer
2008 Grinding Stones and Seeds of Change: Starch and Phytoliths as Evidence of Plant Food Processing, In *New Approaches to Old Stones*, edited by Y. Rowan, pgs. 159-172. David Brown, London.
- Pigott, V.C., K. Mudar, A. Agelarakis, L. Kealhofer, S. Weber, and J. Voelker
2006 A Program of Analysis of Organic Remains from Prehistoric Copper-Producing Settlements in the Khao Wong Prachan Valley, Central Thailand: A Progress Report. in *Uncovering Southeast Asia's Past*, edited by E. Bacus, I. Glover, and V.C. Pigott, pp. 154-167, National University of Singapore Press, Singapore.
- Kealhofer, L.
2005 The Gordion Archaeological Survey. In *The Archaeology of Midas and the Phrygians*, edited by L. Kealhofer, University of Pennsylvania Museum Press, Philadelphia.
- Kealhofer, L.
2005 Introduction. In *The Archaeology of Midas and the Phrygians*, edited by L. Kealhofer, University of Pennsylvania Museum Press, Philadelphia.
- Grave, P., L. Kealhofer, & D.B. Marsh
2005 Ceramic Compositional Analysis and the Phrygian Sanctuary at Dümrek, In *The Archaeology of Midas and the Phrygians*, edited by L. Kealhofer, University of Pennsylvania Museum Press, Philadelphia.

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Publications, continued

Kealhofer, L.

1999 Creating Social Identity in the Landscape: Tidewater, Virginia 1600-1750. In *Archaeologies of Landscape* edited by W. Ashmore and B. Knapp, pp. 58-82. Blackwell, Oxford.

Baker, B. and L. Kealhofer

1996 Assessing the Impact of European Contact on Aboriginal Populations. In *Bioarchaeology of Native American Adaptation in the Spanish Borderlands*. University Press of Florida, Gainesville.

Kealhofer, L. and B. Baker

1996 Counterpoint to Collapse: Depopulation and Adaptation. In *Bioarchaeology of Native American Adaptation in the Spanish Borderlands*. University Press of Florida, Gainesville.

Kealhofer, L.

1996 The Evidence for Demographic Collapse in California. In *Bioarchaeology of Native American Adaptation in the Spanish Borderlands*. University Press of Florida, Gainesville.

Monograph/Book chapters:

Tim Reynolds, Graeme Barker, Huw Barton, Gathorne Cranbrook, Chris Hunt, Lisa Kealhofer, Victor Paz, Alistair Pike, Philip Piper, Ryan Rabett, Garry Rushworth, Chris Stimpson & Katherine Szabó

2013 Chapter 4 The First Modern Humans at Niah, c. 50,000–35,000 Years Ago 133 In *Rainforest foraging and farming in Island Southeast Asia, The Archaeology of the Niah Caves, Sarawak*. Edited by Graeme Barker, pp. 133-170. Cambridge: The McDonald Institute, Cambridge University.

Huw Barton, Graeme Barker, David Gilbertson, Chris Hunt, Lisa Kealhofer, Helen Lewis, Victor Paz, Philip Piper, Ryan Rabett, Tim Reynolds & Katherine Szabó.

2013 Chapter 5 Late Pleistocene Foragers, c. 35,000–11,500 Years Ago, In *Rainforest foraging and farming in Island Southeast Asia, The Archaeology of the Niah Caves, Sarawak*. Edited by Graeme Barker, pp. 171-214. Cambridge: The McDonald Institute, Cambridge University.

Kealhofer, L.

1999 Adding Content to Structure: Landscape Archaeology in the Tidewater, *Old and New Worlds: Historical/Postmedieval Archaeology Papers from the Societies' Joint Conferences at Williamsburg and London 1997 to Mark 30 Years of Work and Achievement*. Edited by G. Egan and R. L. Michel, pp. 378-389. Oxbow, Oxford.

Kealhofer, L.

1998 Evidence for Cultural Impact on the Environment during the Holocene: Two Phytolith Sequences from the Lopburi Region, Thailand. *South-East Asian Archaeology, 1992: Proceedings of the Fourth International Conference of the European Association of South-East Asian Archaeologists, Rome, 28th September-4th October 1992*, edited by Roberto Ciarla and Fiorella Rispoli; with the collaboration of Oscar Nalesini, pp. 1-20. Istituto Italiano per l'Africa e l'Oriente, Rome 1997

Kealhofer, L. and D. Piperno

1996 The Phytolith Record from Khok Phanom Di, Central Thailand, *The Botanical Evidence, Excavation of Khok Phanom Di, Volume 4*. J.B. Thompson (ed), pp. 237-248. Society of Antiquaries, London.

Reports/Other:

Grave, P. and L. Kealhofer

2014 Non-Destructive Characterisation of Hittite Bullae from the ›Nişantepe Archive‹, Hattuša by Portable X-ray Fluorescence. *Archaeologisches Anzeiger* 1: 137-147.

Schoop, U.-D., Grave, P., Kealhofer, L., & Jacobsen, G.

2009 Radiocarbon Dates from Chalcolithic Çamlıbel Tarlası. In A. Schachner (Ed.), *Die Ausgrabungen in Boğazköy-Hattuša 2008* (Vol. 1, pp. 66-67). Istanbul: Deutsches Archaeologisches Institut.

Kealhofer, L., P. Grave, D.B. Marsh, and K. Matsumura

2008 Analysis of specialized Iron Age Wares at Kaman-Kalehöyük. *Anatolian Archaeological Studies XVII*, Kaman-Kalehöyük 17, pp. 201-223. Japanese Institute of Anatolian Archaeology, The Middle Eastern Cultural Center in Japan, Tokyo.

Grave, P. and L. Kealhofer

2006 Investigating Iron Age Trade at Kaman-Kalehöyük, *Anatolian Archaeological Studies XV*, Kaman-Kalehöyük 15, pp. 139-150 Japanese Institute of Anatolian Archaeology, The Middle Eastern Cultural Center in Japan, Tokyo.

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Publications, continued

- Sullivan, K. and L. Kealhofer
2001 14 Legare St.: A Phytolith Study of an 18th and 19th c. Houselot and Garden. *Archaeological Contributions* 28 pp. III:1-27. The Charleston Museum, Charleston, South Carolina.
- Kealhofer, L. and K. Sullivan
2000 Historic Land Use at the George Washington National Birthplace. Report prepared for the National Park Service by the Colonial Williamsburg Foundation, Department of Archaeological Research.
- Piperno, D., D.M. Pearsall, R.A. Bentfer, L. Kealhofer, Z.J. Zhao, Q.H. Jiang
1999 Phytolith Morphology. *Science* 283 (5406): 1265-1266. [Letter, Feb 26]
- Gorny, R. L., G. McMahon, S. Paley, and L. Kealhofer
1995 The Alişar Regional Project 1994. *Anatolica* 21: 65-100

SYMPOSIA

- "Archaeology in Southeast Asia: The Next Generation", Symposium Co-Organizer with P. Grave. Meetings of the Indo-Pacific Prehistory Association, Taipei, September 8-15, 2002.
- "Gordion: Current Research" Symposium Organizer, SAA Annual Meeting, New Orleans, 2001.
- "Paleo-Landscape Change in the Indo-Pacific: Current Research" Symposium Co-Organizer with J. White, SAA Annual Meeting, Minneapolis, 1995
- "The Pattern of Knowledge: Culture in Space and Technology" Symposium Co-Organizer with S. Epstein, AAA Annual Meetings, New Orleans, 1990
- "Disease and Demographic Collapse in the Spanish Borderlands" Symposium Co-Organizer with B. Baker, AAPA Meetings, Miami, April 1990

Conference Papers: 1992-2014

- Microfossil evidence for plant use and environmental change from Koombaloomba Dam, Wet Tropics, North Queensland (Session: *Archaeology and Palaeoecology of Northern Australia's Wet Tropics*). AAA (Australian Archaeological Association)/ASHA conference 1-3 December 2014, Cairns, Queensland. Judith Field.
- The Variability of Modern *Setaria* Species in China. 9th International Meeting on Phytolith Research, Brussels, 8-12 September 2014. *Poster*: Huang Fei.
- Analyzing Lydian Pottery: elemental vs. stylistic classification, European Meeting on Ancient Ceramics, Padua, Italy. 19-21 September 2013. *Poster*. Gül Gürtekin-Demir, H. Mommsen, M. Kerschner, L. Kealhofer, P. Grave
- Complexities of Scale and Abandonment in Western Anatolia, Society for American Archaeology, Honolulu, 4 Apr 2013, Lisa Kealhofer, Peter Grave and Ben Marsh.
- The OPAL Neutron Activation Facility and the Characterisation of Archaeological Ceramics, Australian Archaeological Association Conference, Wollongong, 10 December 2012. John W. Bennett, Peter Grave, L. Kealhofer, B. Marsh, Attila Stopic
- Ceramics and the Construction of Identity in Spanish Colonial California, Global Pottery, Barcelona, Spain, 7 May 2012
- Situating Gordion: Ceramic Diversity and Settlement Survey, Keramos Conference, Ege University, Izmir, Turkey, May 9-13, 2011, (co-authors Peter Grave and Ben Marsh)
- Case studies in large scale ceramic analysis from Turkey, Ceramic Ecology Session, American Anthropological Association Meetings. New Orleans November 2010 (co-author Peter Grave)
- Iron Age Economies of Central Anatolia, San Juan, Puerto Rico, Society for American Archaeology, April 2006 (co-author Peter Grave).
- Anatolian Iron Age Project, San Juan, Puerto Rico, Society for American Archaeology, April 2006 (co-author Peter Grave).
- Black Polished Wares in Western Anatolia, Lyon, France, 26-29 2005. EMAC (European Meeting on Ancient Ceramics).
- The Nature of Surplus Creation in Premodern Southeast Asia: A Case Study from Kamphaeng Phet, central northern Thailand, Society for American Archaeology Meeting, Salt Lake City, April 2, 2005.
- Changing the Environment – Environmental Archaeology in Southeast Asian Research. Indo-Pacific Prehistory Association Meetings, Taipei, September 15, 2002.
- The Historic Grasslands of the New England Tablelands (NSW), Australian National University, Canberra. August

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- 2001 (International Conference on Phytolith Research in Asia and the Pacific).
The Gordion Regional Survey: Preliminary Results. Society for American Archaeology, New Orleans, 2001.
Late Quaternary Environmental Transformations in Thailand: current multidisciplinary Research. White, Kealhofer, Penny, Maloney, and Cremaschi. Society for American Archaeology, Philadelphia, April 2000.
A Late Pleistocene to Holocene Environmental Sequence from Southern Thailand: The Phytolith Evidence. European Southeast Asian Association Meetings, Berlin, September 1998.
Balancing Scale: Problems in Linking Land Use to People. Presented at the Special Research Initiative Workshop, organized by the University of New England at Coffs Harbor, Australia, August 1998.
Islamic Lead Glazes and Long Distance Interaction, P. Grave and L. Kealhofer, Ceramic Ecology Session, American Anthropological Association Meetings, Washington, November 1997
Putting Content into Structure: Environmental and Landscape Approaches in Historical Archaeology, 30th Anniversary Meeting for the Society for Historical Archaeology and the Society for Post-Medieval Archaeology, Williamsburg, April 1997
Phytolith Studies in Southeast Asia: Methods and Contributions, The Environmental and Cultural History and Dynamics of the Australian-Southeast Asian Region, Melbourne, December 1996
Creating Social Identity in the Landscape: Tidewater, VA 1600-1700, American Anthropological Association Meetings, San Francisco, November 1996
Reassessing Models of Agricultural Origins in Southeast Asia, Society for American Archaeology Meetings, New Orleans, April 1996
Cultural Interaction and Technological Choice in a Spanish Colonial Pueblo, American Anthropological Association Meetings, Washington, D.C., November 1995
Paleo-Landscapes in Northeastern Thailand: Preliminary Phytolith Results, Society for American Archaeology Meetings, Minneapolis, May 1995
The Evidence for Early Agriculture at Khok Phanom Di, Central Thailand, Society for American Archaeology Meetings, Los Angeles, April 1994
Holocene Environments in Central Thailand: The Phytolith Evidence from the Lopburi Region, Indo-Pacific Prehistory Association, Chiangmai, Thailand, January 1994
Ceramic Systems in Flux, Brown Wares from El Pueblo de Los Angeles, Society for Historical Archaeology, Vancouver, BC, January 1994
Phytoliths in Southeast Asian and Thai Flora, Society for American Archaeology, April 16, 1993
Cultural Impact on the Environment During the Holocene: Preliminary Phytolith Data from the Lopburi Region, Central Thailand, European Association of Southeast Asian Archaeologists, Rome, Sept., 1992

Invited Talks

- From Anatolia to Angkor: Archaeological Ceramics and Political Dynamics, 1 Sept 2014. La Trobe University; 2 Sept 2014 Melbourne University. Melbourne, Australian (co-author P. Grave)
The Economy of Hittite clay: non-destructive (pXRF) characterization of the Nişantepe bullae and other tablets from Hattuša P.R. 23 May 2014. DAI, Istanbul. (co-author P. Grave)
From Landscape to Politics: the Gordion Regional Survey. 13 Feb 2013, Stanford University (co-author B. Marsh).
Looking for Interaction in the Iron Age: Lessons from a Program of Large Scale Ceramic and Sediment Compositional Analyses in Anatolia, The Prehistoric Black Sea Workshop, University of Glasgow, 13 Dec 2012. (co-author P. Grave)
Pots, Pithoi and Silos: Integrating Ceramic Characterisation at Troy, Archaeology Department, University of Edinburgh, Dec 2012 (co-author P. Grave)
Pots, Pithoi and Silos: Integrating Ceramic Characterisation at Troy, Archaeology Department, University of Glasgow, Oct 2012 (co-author P. Grave)
After the Fall: Iron Age Interaction in Central Anatolia. Department of Near Eastern Languages and Cultures, University of Michigan, March 2010. (co-author P. Grave)
After the Fall: Iron Age Interaction in Central Anatolia. School for Advanced Research, summer 2009. (co-author Peter Grave)
Landscape Change and the Development of Urban Complexity in Mainland Southeast Asia, Stanford University, Invited Speaker, Series on Human Environmental Interactions, March 2007 (co-author P. Grave).
The Anatolian Iron Age Project: the care and feeding of a large collaborative project, IGERT (NSF) invited lecture, University of Arizona, April 12-16, 2006.

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Agricultural Intensification and Urban Development: A case study from Kamphaeng Phet, central Thailand, McIntosh Institute of Archaeology, Cambridge University, November 2005 (co-author Peter Grave).

FELLOWSHIPS AND GRANTS

Australian Research Council, *Kings of the World: the Dynamics of Khmer Centralization 900-1500 CE*, co-PI, 2014-2017 (\$536, 558)

School for Advanced Research, Cotsen Fellow, *After the Fall: Iron Age Interaction in Central Anatolia*. Summer 2009.

National Science Foundation, *Iron Age Economics in Anatolia*, Co-PI, 2005-2009. (\$160,000)

Australian Research Council, *Iron Age Exchange in Anatolia 1200-200 BC: an archaeometric approach*. Co-PI, 2005-2009 (\$320,000).

National Science Foundation, *Iron Age Economics*, Co-PI, 2004-2005. (\$25,000 pilot)

National Science Foundation, *Economy and Land Use, the Gordion Regional Survey Project*, 1999-2003 (\$160,000).

National Geographic, *Irrigation and Urbanization in Mainland Southeast Asia: a Palaeoenvironmental Study*, Co-PI, 1999-2003.

Wenner Gren, *Irrigation and urbanization in mainland Southeast Asia: an archaeological and palaeoenvironmental study*, Co-PI, 1999-2002.

Australian National Museum, Sydney Australia, *Phytoliths and Lithic Residues, Garua Island, PNG*, 1997.

University of New England, Visiting Fellow, *Saumarez Homestead: Rural Gardens and Land Use*, 1997.

Dumbarton Oaks, *Reconstructing Tucker's Garden: The Use of Environmental Archaeology in Documenting Historic Gardens*, Co-PI, 1997.

American Research Institute in Turkey, *Gordion Regional Survey Planning Project*, 1996.

National Geographic, *Reconstruction of the Palaeoenvironment and Prehistoric Land Use in Thailand (II)*, Co-PI, 1995-1996.

Australian National Museum, Visiting Scholar Fellowship, Sydney, Australia, 1995.

National Geographic, *Reconstruction of the Palaeoenvironment and Prehistoric Land Use in Thailand*, Co-PI, 1993-1994

Smithsonian Tropical Research Institute, Mellon Postdoctoral Fellowship 1991-1993