

Kitty F. Emery – Curriculum Vitae

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EDUCATION

1997	Ph.D.	Anthropology	Cornell University, Ithaca, NY
1993	M.A.	Anthropology	Cornell University, Ithaca, NY
1990	M.A.	Anthropology	University of Toronto, Toronto, ON, Canada
1986	B.Sc.	Anthropology/Zoology	Trent University, Peterborough, ON, Canada

EMPLOYMENT HISTORY

2005 – present Affiliate Assistant Professor, Center for Latin American Studies, University of Florida
2002 – present Affiliate Assistant Professor, Land Use and Environmental Change Institute, U of Florida
2001 – present Assistant Curator, Florida Museum of Natural History, University of Florida
Affiliate Assistant Professor, Anthropology Department, University of Florida
1997, 99-01 Assistant Professor, Anthropology Department, State University of New York at Potsdam
1998 SSHRC Postdoctoral Fellow, Royal Ontario Museum
1996 Instructor, Cornell University, Department of Anthropology
1993 Teaching Assistant, Cornell University, Department of Anthropology
1989 – 1990 Teaching Assistant, York University, Department of Anthropology
1987 – 1988 Teaching Assistant, University of Toronto, Department of Anthropology

CURRENT RESEARCH

2005-present Director: *Maya Ethnozoology Project* (Ethnographic and ethnoarchaeological investigations of modern Maya animal use and discard)
2003-present Director: *Proyecto Zooarqueológico del Area Maya* (Regional Maya zooarchaeological analyses to reconstruct human impact on animals and landscapes – current sites include Ceibal, Piedras Negras, Aguateca, Sierra Lacandon, El Zotz, Copan Acropolis, Kaminaljuyu, La Joyanca)
1998-present Director: *Motul de San Jose Ecological Sub-Project*, (Co-director, *MSJ Archaeology-Ecology Project* with A. Foias, Williams College [NSF supported])

FELLOWSHIPS, SCHOLARSHIPS and AWARDS

1999 – 2001 SUNY Potsdam Provost Teaching Development Award (\$2,000)
2000 Nomination for the Society for American Archaeology Dissertation Award
2000 SUNY Potsdam Teaching Cluster Award (\$250)
1998 – 1999 Social Sciences & Humanities Research Council of Canada Postdoctoral Fellowship (\$60,000)
1992 – 1996 Cornell University Sage Doctoral Fellowship (92-96, \$80,000),
1992 – 1996 Social Sciences & Humanities Research Council of Canada Doctoral Fellowship (\$36,000)
1986 – 1987 Ontario Graduate Scholarship (\$10,000)
1986 Foundation for Ocean Research Award (\$3,000)
1985 Natural Sciences and Engineering Research Council of Canada Award (\$2,000)
1982 – 1986 Trent University Scholarship (\$20,000)

RESEARCH

RESEARCH ACTIVITIES (*indicates field-work)

Director

- 2003-present: **Proyecto Zoológico del Área Maya*: regional survey of zooarchaeological remains to map and describe ancient animal distributions and use patterns across the southern Maya lowlands and highlands
- 2005-present: **Maya Ethnozoology*: ethnographic work among lowland and highland indigenous Maya communities to explore animal remain use and discard patterns including:
- **Atitlan Hunting Cache Ethnoarchaeology Project* ethnozoological studies of ritual caching for application to archaeological studies (co-directed by L. Brown, George Washington U, Wenner Gren supported);
- **Where Does the Animal Trash Go?* ethnoarchaeology of animal-related discard practices [Heinz Foundation supported];
- Maya Ethnomedicinal Curation and Use of Animal Products* ethnozoology of medicinal-related animal curation, use and specialized discard in highland and lowland indigenous Maya communities

Co-Director

- 1998-present **Motul de San Jose Archaeological Project (directing the Motul Ecology Sub-Project)*: NSF and Heinz funded multidisciplinary project combining archaeology and ecology to investigate ancient environments and their control by residents of the site; (Co-director: A.E. Foias, Williams College, Massachusetts)

Project Zooarchaeologist

- 2007-present *Ceibal Archaeological Project*, Guatemala (Directors: T. Inomata, D. Triadan, U of Arizona)
- 2006-present *El Zotz*, Guatemala, (Director: S. Houston, Brown U)
- 2003-2005 *Proyecto Petén Noroccidente (PNO) La Joyanca*, Guatemala (Director: C. Arnauld)
- 2003-present *Sierra del Lacandón Regional Archaeology Project*, Guatemala, (Director: C. Golden, Brandeis U)
- 2003-present *El Mirador* Guatemala, *El Aguacatal* Mexico (Director: R. Matheny, Brigham Young U)
- 2003-2005 **Kaminaljuyu: Brigham Young University Project*, Guatemala, (Director: S. Houston, Brown U)
- 2001 *Nakbe, Flores, La Florida*, Guatemala (Director: R. Hansen, UCLA)
- 2000-present **Copan (University of Pennsylvania) Archaeological Project*, Honduras (Director: R. Sharer, U of Pennsylvania)
- 1997-present **Piedras Negras Archaeological Project*, Guatemala (Director: S. Houston, Brown U)
- 1997-2007 **Proyecto Arqueológico Aguateca Fase I y II*, Guatemala (Directors: T. Inomata, D. Triadan, U of Arizona)
- 1995-2002 **Proyecto Arqueológico del Área Kaqchikel*, Guatemala (Director: E.J. Robinson, Montgomery College)
- 1995-1996 **Proyecto Kaminaljuyu/Miraflores*, Guatemala (Director: J.A. Valdés, U de San Carlos)
- 1991-1997 **Petexbatun Regional Archaeological Project*, Guatemala (Director: A.A. Demarest, Vanderbilt U)

- 1991 *Itzan Archaeological Project, Guatemala* (Director: K. Johnston, Ohio State U)
- 1990 **Marco Gonzalez, Ambergris Caye, Belize* (Director: E. Graham, York U)
- 1986-1990 **Tipu, Belize* (Directors: E. Graham, York U; M. Cohen, SUNY Plattsburg)
- 1987 **Pacbitun, Belize* (Director: P.F. Healy, Trent U)
- 1985-1990 **Lamanai, Belize* (Director: D. Pendergast, Royal Ontario Museum)
- Zooarchaeological Supervisor (Graduate student research under my direct supervision)** (Students also participate in many of my research activities listed above)
- 2005-present Cancuen, Trinidad de Nosotros, and El Peru, Guatemala, Hillbank, Belize (Student: Erin Thornton, PhD Candidate, UF)
- 2007-present Cuevas de Quetzales, Rio Murcielagos, Sangre, Duende, Guatemala (Student: Elyse Anderson, MA Candidate, UF)
- 2007-present Caves Branch Archaeological Project (Student: Erol Kavountzis, MA Candidate, UF)

RESEARCH FUNDING: GRANTS AND CONTRACTS

External Funding Agencies

Principal Investigator

- 2008 Copan Archaeological Association (\$1000, Jan – Dec 2008) *Zooarchaeology of Midden Materials from the Acropolis of Copan, Honduras*
- 2007 New World Archaeological Foundation (Aug 2007-Dec 2008, total funds=\$3,555 w \$2,055AMS and \$1,500strontium). *Preclassic Maya Turkey Domestication: Dating and Strontium*
- 2006 Wenner-Gren Foundation (\$24,908, Feb 2006 – Oct 2007) *Hunting Ceremonialism in the Guatemalan Highlands: Applying Ethnoarchaeology and Zooarchaeology to Commoner Ritual*
- 2005 National Science Foundation Archaeology Program (BCS-#0453868, \$36,465, May 2005 – July 2008) *Human Impact on the Ancient Animals of the Maya World: The Regional Maya Zooarchaeology Project*
- 2005 Howard Heinz Latin American Archaeology Research Grant (Award#703085, \$7,919, June 2005 – May 2006) *Tracking Maya Animals in the Archaeological Record: Modern and Ancient Evidence from the Guatemalan Petén.*
- 2005 Foundation for the Advancement of Mesoamerican Studies, Inc. (Award#03028, \$8,430, Feb 2004 – May 2005) *Animals and Ritual in the Copan Acropolis: Zooarchaeology of Special Deposits.*
- 2003 FAO Schwarz Family Foundation Research Grant (co-PI Quitmyer: \$12,000), *Creating the Digital Fish Atlas.*
- 1998 Social Sciences & Humanities Research Council of Canada Postdoctoral Grant (\$5,000, Jan 1998-Jan 1999). *Creating a Digital Encyclopedia of Maya Animal Remains from Archaeological Sites*
- 1995 Wenner-Gren Foundation Predoctoral Grant #5829 (Advisor J. Henderson \$10,000, 1995-1996). *The Maya Collapse: A Zooarchaeological Inquiry*
- 1994 Sigma Xi Grant-in-Aid of Research (\$800, May-December 1994). *Zooarchaeology at the Petexbatun sites, Guatemala.*

Investigator

- 2007 Simon Fraser University Ancient DNA Laboratories [Simon Fraser U Ancient DNA Labs, D. Yang and C. Speller] (Aug 2007-Dec 2008, total funds=~\$20,000 as aDNA analyses). *Preclassic Maya Turkey Domestication: aDNA*
- 2006 National Science Foundation Archaeometry [BCS#0612670] PIs: T.D. Price (Madison), J.E. Buikstra (New Mexico), J.H. Burton (Madison), and P.D. Fullagar (North Carolina), *Isotopes and Migration in Ancient Mesoamerica II*. [chemical analyses for Emery valuing ~\$2,000]
- 2004 National Science Foundation Archaeology [#BCS-041467] *Households and Politics in Classic Maya Society: Survey and Excavation in the Aguateca Area, Guatemala*. Senior Researcher with PI T. Inomata (UArizona), coPI: Triadan (UArizona) [funds to Emery ~\$2000]
- 2004 National Science Foundation Archaeology [BCS#0406472] *Archaeological Application of an Airborne Synthetic Aperture Radar Technology in Central America* Senior Researcher with PI R. Sharer (PI) (U Pennsylvania) (NASA analyses for Emery valuing ~\$5000). [additional grants for which I am listed as collaborator for this AirSAR project have come from the National Geographic Society, Dumbarton Oaks]
- 2004 Ministère des Affaires Etrangères (France) *Projet Péten Nord-ouest – Hixwitz: Recherches pluridisciplinaires sur les sites archéologiques de El Pajamal, Zapote Bobal et leur région*. Senior Researcher with Véronique Breuil-Martinez (PI) (CEMCA-Guatemala). (Funds to Emery \$1500)
- 2002-3 NSF, FAMSI, National Geographic grants under T. Inomata and D. Triadan (U. Arizona) funded living expenses, zooarchaeological shipping and supplies costs (\$1000 over two years)
- 2001 NSF under A. Foias (Williams College) funded soil chemistry research (\$6,000), housing (\$300) = Total funds to Emery = \$6,300
- 2000 NSF under T. Inomata and D. Triadan (U. Arizona) paid airfare and per diem for student (\$1000); NSF under A. Foias (Williams College) funded in-camp costs for two students (\$500); NSF and FAMSI under S. Houston (Brigham Young) paid airfare and per diem for student (\$1000); FAMSI under R. Sharer (U. Penn) covered travel costs and per diem for Emery and two students to Honduras (\$300). Total funds to Emery = \$2800, 0 IDC.

Internal University Agencies

- 2001 SUNY United University Personnel Research Travel Grant (\$1000, March 2001)
- 2001 Potsdam Research & Creative Endeavors Grant (\$1,000) *Rescuing Past Knowledge: Digital Imaging of Animal Representations on Ancient Maya Ceramics*
- 2000 Travel Grants from Potsdam Provost, Dean, and Department Chair (\$2,000) *Culture and Nature for Development, an IDRC Sponsored Workshop in Argentina and Uruguay*
- 2000 Potsdam Mini-Grant (\$500, Oct-April 2000) *A Virtual Web-Based Database for Zooarchaeological Research*
- 2000 Potsdam Faculty-Undergraduate Research Grants (\$3500, May-July 2000) *Zooarchaeological Investigations of Animal Remains in the Copan Acropolis*
- 2001 Potsdam Grant Development Program Grant (\$3,500) *Learning through Research: Integrating Archaeological Education, Research, and Departmental Development*
- 1999 SUNY United University Personnel Research Travel Grant (\$1350, May 1999)
- 1997, 1996, 1994 Cornell University Conference Travel Grants (\$400-600 each)
- 1994 Latin American Studies Program Research Award (\$1,000)
- 1993 Cornell University Research Travel Award (\$1,000)

Graduate Student External Research Grants Supervised

- 2006 NSF, Archaeology Program, Dissertation Improvement Grant, BCS-0622805 (\$10,450), Emery (PI) and E.K. Thornton (Co-PI), *Zooarchaeological and Isotopic Perspectives on Ancient Maya Economy and Exchange*.
- 2006 Foundation for the Advancement of Mesoamerican Studies, Inc. *Zooarchaeological and Isotopic Perspectives on Ancient Maya Economy and Exchange*. PI: Thornton, E.K. February 2006. \$10,000, 12 months.
- 2005 Sigma Xi Committee on Grants-in-Aid of Research *Identifying Regional Patterns of Pre-Hispanic Maya Animal Use and Exchange* PI: Thornton, E.K. \$950, 3 months

External Contract Research Grants

Principal Investigator

- 2007 Brown University via S. Houston (\$2,783, May 2007-May 2008) *Zooarchaeological Analysis of Faunal Materials from the Site of Piedras Negras*.
- 2005 University of Arizona via R. Ishihara (\$1000) *Zooarchaeology of the Aguateca Grieta: A special function area*.
- 2004 Brigham Young University via S. Houston (\$615) *Zooarchaeology of Kaminaljuyu: Preclassic animal use patterns*.
- 2003 Brigham Young University via R. Matheny (\$2,362) *Zooarchaeology of El Mirador: A Preclassic City*
- 2003 Brigham Young University via R. Matheny (\$1,058) *Zooarchaeology of Aguacatal: Coastal Resources through Time*

Contracts Supervised

- 2008 American Museum of Natural History: *Processing St. Catherines Island Archaeobotanical Samples from the Shell Ring and Other Sites*. [Ruhl PI and project director, Emery co-PI, 03-02-2008 through 03-01-2009, \$11,000]
- 2007 Archaeological Consultants Inc., *Stardust Site Zooarchaeological Analyses*. [Emery PI, Quitmyer co-PI and project director], 8/9/2007-8/9/2008, \$12,044]
- 2007 Archaeological and Historical Conservancy, Inc. *Hyde Park (8BD259) Zooarchaeological Analysis*. [Emery PI, Quitmyer co-PI and project director, 10/5/2007-10/5/2008, \$2,675]
- 2005 Archaeological Consultants Inc. *Identification of Fauna from Eagle's Nest Site (8MA132), Manatee River, Manatee Ct. FL*. [Emery PI, Quitmyer co-PI and project director, Aug 2005 – June 2006. \$7000]
- 2005 Archaeological Consultants Inc. *Soil and Sediment Analysis at the Palmetto Lane Midden* [Emery PI, Scudder co-PI and project director, Duration: January – June 2005, \$2,700]
- 2005 Archaeological Consultants Inc. *Zooarchaeological Study of the Palmetto Lane Midden (8SO96), Florida*. [Emery PI, Quitmyer, co-PI and project director, January – June 2005, \$3,805]
- 2004 Florida Archaeological Services, Jacksonville, *Zooarchaeology of Archaeological Site 8DU76, Florida* [Emery PI, Quitmyer Co-PI and project director, May 1st, 2004, \$2,500]
- 2003 Panamerican Consultants, Inc. *Archaeobotanical Analysis of Selected Samples from the Wynnehaven Site (8OK239), Okaloosa County, FL* [Emery PI, Ruhl co-PI and project director, May 2003-May 2004, \$13,610]
- 2003 Panamerican Consultants, Inc. *Zooarchaeology of Wynnehaven Beach site (8OK239), Florida* [Emery PI, Quitmyer co-PI and project director, June 2003, \$20,054]

- 2002 Florida Archaeological Services. *The Zooarchaeology of Traders Cove, Florida* [Emery PI, Quitmyer and Thornton co-PIs, May 31, 2002 to January 19, 2003, \$3358]
- 2002 University of South Florida w *Zooarchaeology of Richardson's Lighthouse (8G10) and Lighthouse Bayou (8GU114), FL* [Emery PI, Quitmyer co-PI and project director, January 8 to May 10 2003, \$2000]
- 2002 Archaeological Consultants Inc., *Citrus County DOT Phase II Fauna*. [Emery PI, Quitmyer co-PI and project director, March 2002-August 2002, \$6,502]
- 2002 Southeastern Archaeological Research, Inc. (SEARCH) *Archaeobotanical Analysis of Selected Samples from the West Williams Site (8Hi509), Hillsborough County, FL* [Emery PI, Ruhl co-PI and project director, May 2002 to February 2003, \$4,000]
- 2002 University of South Florida *Selected Archaeobotanical Samples from Two Sites in the Apalachicola Delta System in Northwest Florida* [Emery PI, Ruhl co-PI and project director, April 2002 to January 2003, \$2,000]

RESEARCH FUNDING: CURATION

External Agencies

- 2007 FAO Schwarz Family Foundation. Donation for Collections Management = \$5,000
- 2007 Edward John Noble Foundation via the American Museum of Natural History *Continued Curation and Upgrade of the St. Catherines Island Paleoenvironmental Collections* [Emery (PI) and Ruhl (co-PI) 10/9/2008 to 5/9/2010, \$18,599]
- 2005 Edward John Noble Foundation via the American Museum of Natural History *Curation and Upgrade of the St. Catherines Island Paleoenvironmental Collections* [Emery (PI) and Ruhl (co-PI) 10/10/2005 - 10/10/2008, \$29,835]
- 2004 FAO Schwarz Family Foundation. Donation (\$2,800)
- 2002 FAO Schwarz Family Foundation Endowment for Environmental Archaeology (\$40,000)

PUBLICATIONS (First author underlined, ^Graduate student co-author)

Downloadable pdfs of all recent publications are available at www.environmental-archaeology.com

1. Refereed Books and Journal Issues

1.4 Emery, K.F.

(in press) *Dietary, Environmental, and Societal Implications of Ancient Maya Animal Use in the Petexbatun: A Zooarchaeological Perspective on the Collapse*. Vanderbilt Institute of Mesoamerican Archaeology Volume 5. Vanderbilt University Press, Nashville, TN [471 ms pp., 56 tables, 87 figures, publication expected 2008].

1.3 Emery, K.F. and A. Ford, editors

(in press) Legacy of the Maya Forest. *Journal of Ethnobiology* Special Issue Volume 28(02): including 10 archaeological and ethnographic papers exploring the role of human activity in creating and maintaining the forests of the Maya area. [submitted February 2007, accepted June 2008, revisions completed July 2008, accepted July 2008]

1.2 Emery, K.F., editor

(2004) *Maya Zooarchaeology: New Directions in Method and Theory*. Cotsen Institute of Archaeology, Monograph 51. Los Angeles, CA. [310 pp, 85 figures, 49 tables; including a preface, taxonomic appendix, subject index, and three chapters by Emery (see below)]

1.1 Emery, K.F. and W.G. Teeter, editors

(2004) Tropical Zooarchaeology. *Archaeofauna* Special Issue Volume 13: including 20 papers on methods and issues pertinent to zooarchaeology in tropical regions around the world. [202 pp. including 2 articles by Emery (see below)]

2. Refereed Journal Publications

2.21 Emery, K.F.

(in press) Measuring Hunting Sustainability in an Ancient Community: Zooarchaeology at Motul de San Jose, Guatemala. *Journal of Ethnobiology* [49 ms pp., submitted November 2003, accepted pending minor revisions March 2004, revisions submitted July 2007, accepted July 2008]

2.20 Brown, L.A. and Emery, K.F.

(2008) Negotiations with the Animate Forest: Hunting Shrines and Houses in the Maya Highlands. *Journal of Archaeological Method and Theory* 15(4) [24 ms pgs., junior author with Linda Brown, submitted Feb 2008, accepted pending minor revisions June 2008, revisions accepted August 2008]

2.19 Emery, K.F. and E.K. Thornton^

(2008) Zooarchaeological Habitat Analysis of Ancient Maya Landscape Changes. *Journal of Ethnobiology* 28(2) [33 ms pp., submitted November 2007, accepted pending minor revision February 2008, revisions accepted May 2008]

2.18 Emery, K.F.

(2008) A Zooarchaeological Test for Dietary Resource Depression at the End of the Classic Period in the Petexbatun, Guatemala. *Human Ecology* 36(5 or 6). doi:10.1007/s10745-008-9187-0

2.17 Emery, K.F. and E.K. Thornton^

(2008) A regional perspective on biotic change during the Classic Maya occupation using zooarchaeological isotopic chemistry. *Quaternary International* 191. doi:10.1016/j.quaint.2007.11.015

2.16 Emery, K.F., C.M. Götz, M.E. Hill and J.A. Cabrales

- (2008) ICAZ 2006: Zooarchaeology of the late Pleistocene/Early Holocene in the Americas
Zooarchaeological evidence of the ancient Maya and their environment, *Quaternary International* 191. doi:10.1016/j.quaint.2008.03.005
- 2.15 Emery, K.F.
(2008) Techniques of Ancient Maya Bone Working: Evidence from a Classic Maya Deposit. *Latin American Antiquity* 19(2):204-221
- 2.14 Emery, K.F.
(2007) Aprovechamiento de la fauna en Piedras Negras: Dieta, ritual y artesanía del periodo Clásico Maya. *Mayab: Journal of the Sociedad Española de Estudios Mayas, Madrid Spain* 19:51-69.
- 2.13 Emery, K.F.
(2007) Assessing the Impact of Ancient Maya Animal Use. *Journal of Nature Conservation* 15(3):184-195.
- 2.12 Emery, K.F. and K. Aoyama
(2007) Bone Tool Manufacturing in Elite Maya Households at Aguateca, Guatemala. *Ancient Mesoamerica* 18(2):69-89.
- 2.11 Webb, E., Schwarcz, H., Jensen, C.T., Terry, R.E., Moriarty, M., and K.F. Emery
(2007) Soil Carbon Isotopes at Motul de San Jose. *Geoarchaeology* 22(3):291-312.
- 2.10 Jensen, C.T., Moriarty, M.D., Johnson, K.D., Terry, R.E., Emery, K.F. and Nelson, S.D.
(2007) Soil Resources of the Motul de San José Maya: Correlating Soil Taxonomy and Modern Itzá Maya Soil Classification within a Classic Maya Archaeological Zone. *Geoarchaeology* 22(3):337-357
- 2.9 Emery, K.F.
(2004) Making the Most of the Data: Issues of Method and Theory in Tropical Zooarchaeology. *Archaeofauna* 13:7-10
- 2.8 Emery, K.F.
(2004) In Search of the “Maya Diet”: Is Regional Comparison Possible in the Maya Area? *Archaeofauna* 13:37-56
- 2.7 Emery, K.F.
(2003) The Economics of Natural Resource Use at Ancient Motul de San Jose, Guatemala. *Mayab* 16:33-48.
- 2.6 Emery, K.F. and E. Graham
(2003) A Marine Resource Survey at Marco Gonzalez, Belize. *Canadian Zooarchaeology Supplement* 1:68-102.
- 2.5 Emery, K.F.
(2003) Enduring Foundations to a Holistic Science: Lessons in Environmental Archaeology from Elizabeth S. Wing. *Bulletin of the Florida Museum of Natural History* 44(1):3-10.
- 2.4 Emery, K.F.
(2003) A Bibliography of Literature by Elizabeth S. Wing. *Bulletin of the Florida Museum of Natural History* 44(1):205-208.
- 2.3 Emery, K.F.
(2002) The Noble Beast: Status and Differential Access to Animals in the Maya World. *World Archaeology* 34(3):498-515
- 2.2 Emery, K.F., L.E. Wright, and H. Schwarcz
(2000) Isotopic Analysis of Ancient Deer Bone: Biotic Stability in Collapse Period Maya Land-Use. *Journal of Archaeological Science* 27:537-550.
- 2.1 Healy, P., Emery, K.F., and L.E. Wright
(1990) Ancient and modern Maya exploitation of the jute snail (*Pachychilus*). *Latin American Antiquity* 1(2): 170-183.

3. Refereed Books, Contributor of Chapter(s)

- 3.11 Emery, K.F.
(2007) Ecofacts: Overview. Invited entry for the peer-reviewed *Encyclopedia of Archaeology*, edited by Deborah M. Pearsall, pp. 1111-1114. Academic Press, NY.
- 3.10 Emery, K.F.
(2004) Introduction to Maya Zooarchaeology, In *Maya Zooarchaeology: New Directions in Method and Theory*, edited by K.F. Emery, pp. xi-xiii. Los Angeles, CA: Institute of Archaeology, UCLA Press
- 3.9 Emery, K.F.
(2004) Historical Perspectives on Research Directions in Maya Zooarchaeology, In *Maya Zooarchaeology: New Directions in Method and Theory*, edited by K.F. Emery, pp. 1-12. Los Angeles, CA: Institute of Archaeology, UCLA Press
- 3.8 Emery, K.F.
(2004) In Search of Assemblage Comparability: Methods in Maya Zooarchaeology, In *Maya Zooarchaeology: New Directions in Method and Theory*, edited by K.F. Emery, pp. 15-34. Los Angeles, CA: Institute of Archaeology, UCLA Press
- 3.7 Emery, K.F.
(2004) Environments of the Maya Collapse: A Zooarchaeological Perspective from the Petexbatún, Guatemala, In *Maya Zooarchaeology: New Directions in Method and Theory*, edited by K.F. Emery, pp. 81-96. Los Angeles, CA: Institute of Archaeology, UCLA Press
- 3.6 Emery, K.F.
(2004) Maya Zooarchaeology: In Pursuit of Cultural Variability and Environmental Heterogeneity, pp. 217-241. In: *Continuities and Changes in Maya Archaeology: Perspectives at the Millennium*, edited by C. Golden and G. Borgstede. Routledge Press: New York.
- 3.5 Emery, K.F.
(2003) Animals from the Maya Underworld: Reconstructing Elite Maya Ritual at the Cueva de los Quetzales, Guatemala. In *Behavior Behind Bones: The zooarchaeology of religion, ritual, status, and identity*, edited by S. Jones O'Day, W. Van Neer, and A. Ervynck, pp. 101-113. Oxbow Books, Oxford UK.
- 3.4 Robinson, E., P. Farrel, K.F. Emery, D.E. Freidel, and G. Braswell
(2002) Preclassic Settlements and Geomorphology in the Highlands of Guatemala: Excavations at Urias, Valley of Antigua. In *Incidents of Archaeology in Central America and Yucatan: Essays in Honor of Edwin M. Shook*, edited by M. Love, pp. 251-276. University Press of America: Maryland.
- 3.3 Emery, K.F.
(2001) The Economics of Bone Artifact Production in the Ancient Maya Lowlands. In *Crafting Bone: Skeletal Technologies through Time and Space. Proceedings of the 2nd meeting of the ICAZ Worked Bone Research Group Budapest 1999*, edited by A.M. Choyke and L. Bartosiewicz, pp. 73-84. British Archaeological Reports International Series 937. Oxford.
- 3.2 Emery, K.F.
(2000) Fauna of Ancient Mexico and Central America. In *The Archaeology of Ancient Mexico and Central America: An Encyclopedia*, edited by S.T. Evans and D.L. Webster, pp. 255-265. New York: Garland Publishing.
- 3.1 Emery, K.F.
(1999) Temporal trends in ancient Maya animal use: Zooarchaeological studies of Postclassic and Colonial period faunal assemblages from Lamanai and Tipu, Belize. In *Reconstructing Ancient Maya Diet*, edited by CD White, pp. 61-81. Salt Lake City: University of Utah Press.

4. Books, Articles, and Chapters under Peer-review for Publication

4.2 Emery, K.F.

(in review) Zooarchaeology. In *Ethnobiology*, edited by J.R. Stepp, In *Encyclopedia of Life Support Systems (EOLSS)*, Developed under the Auspices of the UNESCO, EOLSS Publishers, Oxford, UK, [http://www.eolss.net] [submitted July 2008]

4.1 Emery, K.F.

(in review) Maya Bone Crafting: Defining the Nature of a Late/Terminal Classic Maya Bone Tool Manufacturing Locus. Submitted to *Journal of Anthropological Archaeology*. [47 ms pp., submitted August 2005, accepted pending revision November 2005, revisions submitted April 2008]

5. Refereed Book Contracts

5.1 Götz, C. and Emery, K.F.

(in preparation) *Archaeology of Mesoamerican Animals*. Oxbow Press, David Brown Book Co. To be submitted Spring 2009 [senior author of one chapter]

5.1 Foias, A.E. and Emery, K.F.

(in preparation) *History, Politics and Economics in Classic Maya Civilization: Recent Investigations at Motul de San Jose, Guatemala*. University of Florida Press, Gainesville. [sole or senior author of three chapters]

5.1 Emery, A.R. and Emery, K.F.

(accepted) *Clash of Values: Valorizing Cultural and Natural Heritage in Latin America*. University of Toronto Press, Toronto, ON. [565 ms pp., submitted January 2005, accepted June 2005, in revision, sole author of one chapter]

6. Non-refereed Publications

Journal Articles, Book Chapters

6.28 Thornton, E.K.△, and Emery, K.F.

(in press) Animal Remains from El Mirador. In *Introduction to Investigations at El Mirador, Petén, Guatemala*. El Mirador Series, Part I (By Ray T. Matheny and Deanne G. Matheny). Papers of the New World Archaeological Foundation Number 59 (Ray T. Matheny Series Editor, Donlu D. Thayer Volume Editor). [accepted June 2007, expected publication 2008]

6.27 Emery, K.F., and Thornton, E.K.△

(in press) Animal Use at Aguacatal. In *El Aguacatal, Campeche, Mexico: Late Preclassic to Late Postclassic Occupations on the Xicalango Peninsula* (By Ray T. Matheny and Deanne G. Matheny). Papers of the New World Archaeological Foundation. [submitted January 2007, approved February 2007, expected publication in 2008]

6.26 Thornton, E.K.△, and Emery, K.F.

(2007) *Uso e Intercambio Prehispánico de Recursos de Fauna en La Entidad Política de Motul, Petén, Guatemala*. 2006 *Simposio de Investigaciones Arqueológicas en Guatemala* edited by B. Arroyo, J.P. Laporte and H.L. Escobedo, pp. 1181-1192. Guatemala: Instituto de Antropología e Historia. [published conference proceedings]

6.25 Emery, K.F.

(2007) Jaguar Kings and Monkey Brothers: Animal Use Among the Maya. *Dig Magazine* July:16-20

6.24 Emery, K.F.

- (2006) Definiendo el Aprovechamiento de la Fauna por la Elite: Evidencia en Aguateca y Otros Sitios en Petexbatún, Guatemala. *Ut'zib* 4(1):1-16.
- 6.23 Emery, K.F.
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- 7.14 Emery, K.F.
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- 7.13 Emery, K.F.
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(1987) *Comparative Analysis of Faunal Remains from Pacbitun and Tipu-Negroman, Belize.* Report prepared for the Osteo-zooarchaeological Laboratory, University of Toronto.
- 7.3 Emery, K.F.
(1986) *Preliminary Report on Faunal Remains from Tipu-Negroman.* Report prepared for Dr. Elizabeth Graham, Department of New World Archaeology, Royal Ontario Museum.
- 7.2 Emery, K.F.
(1986) *Preliminary Report on Faunal Remains from Pacbitun.* Report prepared for Dr. Paul Healy, Department of Anthropology, Trent University.
- 7.1 Emery, K.F.
(1985) *Analysis and Description of Freshwater and Marine Mollusca from the Site of Caledonia, Belize.* Report prepared for Jaime Awe, Department of Anthropology, Trent University.

Miscellaneous

Dissertations or Theses

- Emery, K.F.
(1997) *The Maya Collapse: A Zooarchaeological Investigation.* PhD dissertation, Anthropology, Cornell University. 656 pp.
- Emery, K.F.
(1990) *Postclassic and Colonial Period Dietary Strategies in the Southern Maya Lowlands: Faunal analyses from Lamanai and Tipu, Belize.* Master of Arts thesis, Department of Anthropology, University of Toronto. 194 pp.
- Emery, K.F.
(1986) *Variation in a Tropical Gastropod Population: Implications for ancient Maya lowland subsistence patterns.* Honours Bachelor of Science thesis, Departments of Anthropology and Biology, Trent University. 134 pp.

Creative Works

- 2008 *Imágenes de los Elementos Esqueleticos de las Animales Maya: Una Guia de Zooarqueología.* 8 posters (4x5') including photographic images of the major skeletal elements for common species, separated by class and body portion. Presented to the Instituto de Antropología e Historia de Guatemala and the Instituto Hondureño de Antropología e Historia as one part of an on-going collaboration in encouraging the study of zooarchaeology in these Central American countries.
- 2008 *Arboles de los Mayas de Motul* by Jorge Zac V'itzil. Compiled, edited, translated, images modified, and book designed created by Emery. Don Jorge is an indigenous Itzaj Maya with limited literacy. I created a book from his original illustrations made with children's coloured pencil on discarded photocopy paper) and botanical descriptions (on notebook paper). He will sell this book to tourists to supplement his subsistence income. 58 pages
- 2007 *The Environmental Archaeology Program of the Florida Museum of Natural History Brochure.* I have created this colorful trifold pamphlet describing our program, collections, and research for

- distribution at Florida Museum and other public outreach events. I have also created an EA banner and activity materials for these events.
- 2004 Maya Zooarchaeology. Designed the cover art and internal section art (images by Merald Clark) and layout for this Emery 2004 volume.
- 2004 www.environmental-archaeology.com. Since 2004 I have been responsible for the design, information structure, and content for this website on environmental archaeology research, programming by visiblemedia.com
- 2002 *Environmental Archaeology Program, Florida Museum of Natural History Website*. www.flmnh.ufl.edu/envarch. Since 2002 I have been responsible for writing new and updating old content (implemented by Fazenbaker, Florida Museum webmaster), and with Quitmyer, supervising the reformat from original frames by web programmers.
- 2001 *Animales de las Ceramics del Museo Popol Vuh, Guatemala*. A photo catalog of animal-related iconography on artifacts housed at the Museo Popol Vuh, for later integration into my digital encyclopedia of Ancient Maya Animals.
- 2001 *Ancient People and Places*. An interactive component to the SUNY Potsdam course of the same name. This was created with assistance from computer students of the SUNY Potsdam and included digital lectures and slideshows, online chat “office hours”, and interactive testing.
- 2000 *Ancient Animals of the Maya*. Designed and created this prototype digital encyclopedia on Macromedia as a showpiece for the final design. I continue to compile resources for the final product.
- 1998 *Digital Images of the Bones and Shells of the Ancient Maya Animals*. Since 1998 I have been compiling images of the skeletal elements of the most common Maya fauna. This collection now numbers close to 10,000 images and represents an almost complete guide.
- 1987 *Of Crocodiles and Kings* Research consultant and highlighted scientist in this Mako Films of Canada show in the series Final Frontiers aired on Discovery Canada.

Media Releases

- 2007 UF Study: Maya Politics Likely Played Role in Ancient Large Game Decline. University of Florida News, Nov 8, 2007. <http://news.ufl.edu/2007/11/08/mayan-game/>
- 2007 Bloody Maya Rituals Exterminated Large Mammals. Softpedia Nov 16, 2007. <http://news.softpedia.com/news/Bloody-Maya-Rituals-Exterminated-Large-Mammals-71041.shtml>
- 2007 Maya Rituals Caused Ancient Decline in Big Game. National Geographic Nov 15, 2007. <http://news.nationalgeographic.com/news/2007/11/071115-maya-sacrifice.html>
- 2007 Ancient Maya Elite Binged on Big Game, Loved Furs. Reuters UK, Nov 12 2007. <http://uk.reuters.com/article/environmentNews/idUKN1248947920071112>
- 2007 Florida Museum-led Study Counters Ideas about Mayan Elite Craftworks. InsideUF, Aug 29, 2007. <http://insideuf.ufl.edu/2007/08/29/mayan-elite/>
- 2007 UF Study of the Maya Elite, Institute of Maya Studies. <http://www.mayastudies.org/>
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PROFESSIONAL CONFERENCES/MEETINGS (Invited papers noted, published conference proceedings listed only under under publication section)

International

- 8.1.10 Emery, K.F., L.A. Brown, E. Anderson[^], E. Thornton[^], and M. LeFebvre[^]

- (2008) *Etnozoología de Depósitos Rituales de los Mayas Modernos de Guatemala*. Invited paper accepted for presentation at the Simposio de Arqueología Guatemalteca.
- 8.1.9 Emery, K.F.
 (2008) Medicinal Curation and Use of Animals by the Itza Maya of Guatemala: Implications for Zooarchaeology. Invited paper presented at the Canadian Association of Archaeology meetings, Peterborough, ON
- 8.1.8 Emery, K.F., L.A. Brown, E. Anderson[^], E. Thornton[^], and M. LeFebvre[^]
 (2007) *Ethno-Zoology of Modern Maya Ritual Animal Bone Caches and Implications for Interpretations of Ancient Maya Diet and Ritual*. Invited paper presented at the Annual Chacmool Conference, Calgary, Alberta
- 8.1.7 Thornton, E.K.[^] and Emery, K.F.
 (2006) *Inter-Site Patterns of Faunal Resource Acquisition and Exchange in the Maya Lowlands: A Case Study of the Motul Polity*, Petén, Guatemala. Paper presented at the International Council of Archaeozoology, August 2006, Mexico City, Mexico.
- 8.1.6 Emery, K.F. and Thornton, E.K.[^]
 (2006) *Zooarchaeological Evidence for Biotic Stability and Change during the Maya Occupation of the Guatemalan Petén*, Invited paper presented at the International Congress of Americanists, July 2006, Seville, Spain, and at the International Council of Archaeozoology, August 2006, Mexico City, Mexico.
- 8.1.5 Webb E.A., Schwarcz H.P., Jensen C.T., Terry R.E., Moriarty M.D., and Emery, K.F.
 (2004) *Stable Carbon Isotope Signature of Ancient Maize Agriculture in the Soils of Motul de San José, Guatemala*. Paper presented at the Canadian Association for Physical Anthropology Conference, London, Ontario.
- 8.1.4 Emery, K.F. and Emery, A.R.
 (2003) *CND: A New Organization Dedicated to Sustainable Development and Heritage Resources in Latin America and the Caribbean*. Invited paper presented at the Congreso Internacional de Americanistas, Santiago, Chile.
- 8.1.3 Emery, K.F. and B. Stevens[^]
 (2002) *Animals from the Maya Underworld: Reconstructing Elite Maya Ritual, Cueva de los Quetzales, Guatemala*. Invited paper presented at the International Council of Archaeozoologists, Durham, England.
- 8.1.2 Emery, K.F.
 (2000) *Convergent Results from Divergent Methods: A Tripartite Zooarchaeological Analysis of the Maya Collapse*. Invited paper presented at the Canadian Archaeological Association Annual Meetings, Ottawa.
- 8.1.1 Emery, K.F.
 (1998) *Acceso diferencial a recursos animales como una marca de limitaciones dietéticas durante el colapso maya*. Paper presented at the IV Congreso Internacional de Mayistas, Guatemala.

National

- 8.2.22 Emery, K.F. and Thornton, E.K.[^]
 (2009) *Effects of Precipitation Variation on Wetland Habitat Use as Reflected by Animal Remains from Maya Archaeological Sites*. Invited paper to be presented at the Society for American Archaeology Annual Meetings, Atlanta.
- 8.2.21 Schwarcz, H.P., Emery, K.F., Repussard, A., Thornton, E.K., Knyf, M., and Malatesta, J.
 (2009) *Oxygen Isotopes from Maya Archaeological Deer Remains: Experiments in Tracing Drought using Bones and Teeth*. Invited paper to be presented at the Society for American Archaeology Annual Meetings, Atlanta.
- 8.2.20 Emery, K.F. and L.A. Brown

- (2008) *Ethnoarchaeological Studies of Animal Material Disposal Patterns in the Southern Maya Lowlands and Implications for Maya Zooarchaeology*. Paper presented at the Society for American Archaeology meetings, Vancouver BC
- 8.2.19 Emery, K.F. and L.A. Brown
(2007) *Curating and Caching Animal Bone in the Maya World: Cautions for Zooarchaeology*. Invited paper presented at the Annual Meetings of the Society for American Archaeology, Austin TX
- 8.2.18 Emery, K.F. and K. Aoyama
(2004) *Bone Tool Manufacturing in Elite Maya Households at Aguateca, Guatemala* Invited paper presented at the Annual Meetings of the Society for American Archaeology, Montreal, Canada.
- 8.2.17 Emery, K.F.
(2003) *In Search of the "Maya Diet": Is Regional Comparison Possible in the Maya Area?* Invited paper presented at the Society for American Archaeology Meetings, Milwaukee, WI.
- 8.2.16 Jensen, C.T., M. Moriarty, R.E. Terry, and K.F. Emery
(2003) *Soil Typologies and Connections between Agriculture and Settlement at Motul de San Jose*. Invited paper presented at the Society for American Archaeology Meetings, Milwaukee, WI.
- 8.2.15 Emery, K.F.
(2003) *Animal Use and Measures of Sustainability at Late Classic Motul de San Jose*. Invited paper presented at the Society for American Archaeology Meetings, Milwaukee, WI.
- 8.2.14 Emery, K.F.
(2002) *The Economics of Ancient Natural Resource Use at Motul de San Jose, Guatemala*. Invited paper presented at the Society for American Archaeology Annual Meetings, Denver.
- 8.2.13 Emery, K.F.
(2001) *The Noble Beast: High Status Animal Use at Aguateca, Guatemala*. Invited paper presented at the Society for American Archaeology Annual Meetings, New Orleans
- 8.2.12 Emery, K.F. and A. Denkers[^]
(2001) *Early Maya Animal Exploitation in Highland Guatemala*. Invited paper presented at the Society for American Archaeology Annual Meetings, New Orleans.
- 8.2.11 Robinson, E., Farrel, P., Emery, KF, and Freidel, D.
(1999) *Preclassic Culture and Environments of Urias, Panchoy Valley, Guatemala*. Paper presented at the Society for American Archaeology Meetings, Chicago.
- 8.2.10 Emery, K.F.
(1999) *The Economics of Bone Artifact Production in the Ancient Maya Lowlands*. Invited paper presented at the Society for American Archaeology Meetings, Chicago.
- 8.2.9 Emery, K.F.
(1997) *Covariance in ancient Maya animal use: A multivariate zooarchaeological analysis*. Paper presented at the Society for American Archaeology Meetings, Nashville Tennessee.
- 8.2.8 Emery, K.F.
(1996) *Complementarity of traditional and current zooarchaeological methods: An investigation of the ancient Maya collapse*. Poster presented at the American Anthropological Meetings, San Francisco.
- 8.2.7 Emery, K.F., L.E. Wright, and H.P. Schwarcz
(1996) *Isotopic analysis of ancient deer bone: Evidence for biotic stability in the Maya Lowlands*. Paper presented at the Society for American Archaeology Meetings, New Orleans.
- 8.2.6 Emery, K.F.

- (1994) *Bone Artifact Economies of the Maya Lowlands: Clues from a bone tool production locus in the Petexbatun region*. Invited paper presented at the American Anthropological Association Meetings, Atlanta, Georgia.
- 8.2.5 Lentz, D. and Emery, K.F.
 (1991) *Prehistoric Subsistence Systems in the Petexbatun Region: Paleobotanical and zooarchaeological data*. Invited paper presented at the International Congress of Americanists, New Orleans.
- 8.2.4 Emery, K.F.
 (1991) *Marine Resource Availability and Use at the Marco Gonzalez Archaeological Site: Present day evidence from the Hol Chan Marine Reserve*. Invited paper presented at the Annual meeting of the Society for American Archaeology, New Orleans.
- 8.2.3 Healy, P.F., Emery, K.F., and L.E. Wright
 (1990) *Ancient and Modern Maya Exploitation of the Jute Snail (*Pachychilus*)*. Paper presented at the 6th Conference of the International Council for Archaeozoology, Smithsonian Institution, Washington, D.C.
- 8.2.2 Emery, K.F.
 (1990) *Manipulation of Resource Diversity: Strategy choices in the development of tropical urbanism*. Invited paper presented at the 89th Annual Meeting of the American Anthropological Association, New Orleans.
- 8.2.1 Emery, K.F.
 (1989) *The Use of Two Freshwater Gastropods (*Pomacea flagellata* and *Pachychilus sp.*) at Lamanai, Belize*. Paper presented at the Midwestern Mesoamerican Conference, Ann Arbor, Michigan.

Local

- 8.3.3 Emery, K.F.
 (2005) *Archaeomalacology: An Exploration of Themes*. Invited paper Presented at the Inaugural Meeting of the Archaeomalacology Working Group, International Council of Archaeozoology (ICAZ), Gainesville, FL. February 2005.
- 8.3.2 Emery, K.F.
 (2000) *Bone Bytes Back: Continuing Work on the "Animals of Ancient Mesoamerica"*. Invited paper presented at the Annual Cross Campus Potsdam-Carleton Archaeological Conference, Ottawa, Ontario.
- 8.3.1 Emery, K.F.
 (1999) *Bone Bytes: The Animals of Ancient Mesoamerica Encyclopedia*. Invited paper presented at the Annual Cross Campus Potsdam-Carleton Archaeological Conference, Ottawa, Ontario.

Additional Participation – Symposia Organized

- Götz, C. and Emery, K.F.
 (2006) *Zooarchaeological Evidence of the Ancient Maya and their Environment: Human Impact on Environment and Environmental Impact on Culture*. Session organized for the International Council of Archaeozoology, August 2006, Mexico City, Mexico.
- Emery, K.F. and W. Teeter
 (2003) *Zooarchaeology in the Humid American Tropics: Making the Most of the Data*. Session organized for the Society for American Archaeology Milwaukee, WI
- Emery, K.F. and A. Foias

(2003) *Testing Economic and Political Models of the Classic Maya: Archaeology and Ecology at Motul de San Jose, Guatemala*. Session organized for the Society for American Archaeology Milwaukee, WI

Emery, K.F.

(2001) *SUNY Potsdam Anthropology Undergraduate Conference*, Conference organized for the SUNY Potsdam and Affiliated Colleges, Potsdam, NY.

Emery, K.F. and T.A. Wake

(1999) *Technology of Skeletal Materials: Considerations of production methods and scale*. Session organized for the Society for American Archaeology Meetings, Chicago.

Emery, K.F. and N. Stanchly

(1997) *Trends in Maya Zooarchaeology*. Session organized for the Society for American Archaeology Meetings, Nashville Tennessee.

Guest Lectures

Emery, K.F.

(2008) *Ritual Hunting Caches of the Guatemalan Highlands: Implications for Maya Zooarchaeology*. Invited lecture presented to the Archaeological Institute of America, Gainesville Chapter.

Emery, K.F.

(2008) *Museums and Archaeoinformatics*. Invited lecture presented to the Steering and Advisory Boards at the Archaeoinformatics committee meeting, Santa Fe, NM.

Emery, K.F.

(2004) *Chocolate and the Ancient Maya*. Invited lecture presented in association with the exhibit "Chocolate" at the Florida Museum of Natural History.

Emery, K.F.

(2003) *Ancient Human Impact on the Mesoamerican Environment: Environmental Archaeology in the Maya World*. Invited lecture presented in the Florida Museum of Natural History Seminar Series. FLMNH, University of Florida.

Emery, K.F.

(2001) *Reading the Bones: Zooarchaeology and the Maya Collapse*. Invited lecture presented at Trent University, Peterborough, Ontario.

Emery, K.F.

(2000) *Ancient Animals of Mesoamerica: An Interactive Encyclopedia of Zooarchaeology*. Invited lecture presented at the SUNY Potsdam Vincent Knapp Faculty Series (Invitation by Dean of School of Arts and Sciences)

Emery, K.F.

(1999) *The Guatemalan Past: Lesson or Weapon?* Invited inaugural address for Lambda Alpha Induction Ceremony, SUNY Potsdam.

Emery, K.F.

(1997) *Geoarchaeology and the Maya collapse: The Petexbatun project*. Invited lecture presented in the Department of Geography Lecture Series, SUNY Potsdam

Emery, K.F.

(1997) *Consequences of Ancient Agricultural Intensification* Invited lecture presented in the Department of Anthropology Brown Bag Series, SUNY Potsdam

Emery, K.F.

(1996) *Isotopic Bone Chemistry and Geoarchaeology in the Petexbatun Archaeological Project*. Invited lecture presented in the Department of Geography Research Lecture Series, Cornell University.

TEACHING

COURSES TAUGHT

University of Florida

Formal Courses (evaluations are provided where available, ranked out of 5.0)

Zooarchaeology of Central America: Discussion class that explores major issues in Central American prehistory using animal remains from archaeological sites.

ANG 6186 (3 credits) – Fall 2008

Maya Zooarchaeology: Discussion and hands-on research are used to investigate major questions in Maya prehistory using animal remains from archaeological sites.

ANG 6186 (3 credits) – Spring 2006

Environmental Archaeology: Combines lectures, case-study student presentations and a hands-on lab component to teach the methods of environmental archaeology

ANG 6120C Graduate Sec 3275 (3 credits) – Spring 2008-Evaluated 4.5, Spring 2005-Evaluated 5.0, 2003 (taught as ANG 6186)

ANT 4147C Undergrad Sec 3277 (3 credits) – Spring 2008-Evaluated 5.0, Spring 2005-Evaluated 5.0 (taught as ANT4706)

Lessons from Ancient Environments: A discussion class debating major controversies in human environmental impact research around the world

ANG 6930 – Spring 2002, Spring 2004

Independent Study Courses

ANG 7980 Doctoral Research in Maya Zooarchaeology – Fall 2008 (1 student, 9 credits), Fall 2007 (1 student, 9 credits), Fall 2006 (1 student, 9 credits), Fall 2005 (1 student, 9 credits), Spring 2005 (1 student, 9 credits), Spring 2006 (1 student, 9 credits), Spring 2007 (1 student, 9 credits), Spring 2008 (1 student, 9 credits)

ANG 7979 Advanced Research in Maya Zooarchaeology – Summer 2004 (1 student, 2 credits)
Masters Research in Maya Environmental Archaeology – Fall 2008 (2 students, 3 credits each), Spring 2007 (1 student, 3 credits)

ANG 6971 Independent Research in Maya Zooarchaeology – Spring 2006 (1 student, 3 credits), Spring 2008 (2 students, 6 credits total)

Masters Research in Environmental Archaeology – Spring 2007 (1 student, 3 credits)

ANG 6915 Environmental Archaeology Differential Screening Research – Fall 2004 (1 student, 3 credits)

ANG 6905 Environmental Archaeology Collections Experience – Fall 2005 (1 student, 2 credits)
Ancient Maya Animals – Spring 2004 (1 student, 3 credits)

Independent Studies in Maya Zooarchaeology – Summer 2007 (2 students, 6 credits total), Fall 2007 (2 students, 6 credits total), Spring 2007 (1 student, 3 credits)
Independent Research in Zooarchaeology – Spring 2008 (1 student, 2 credits)

LAS 6905 Readings in Mesoamerican Archaeology – Summer 2004 (1 student, 1 credit), Summer 2006 (1 student, 1 credit)

ANT 4905 University Research Scholarship Study – Summer 2006 (1 student, 3 credits)
Environmental Archaeology Collections Experience – Fall 2004 (2 students, 6 credits total), Fall 2005 (1 student, 3 credits), Spring 2005 (2 students, 6 credits total), Spring 2004 (1 student, 3 credits)

Independent Studies in Museum Specimen Preparation – Summer 2007 (1 student, 3 credits), Fall 2007 (1 student, 3 credits)
Independent Studies in Collection Management – Fall 2007 (1 student, 3 credits)
Individual Work: Archaeobotany – Summer 2002 (1 student, 3 credits), Spring 2002 (1 student, 3 credits), Spring 2003 (1 student, 3 credits)
Individual Work: Zooarchaeology – Spring 2003 (1 student, 3 credits)
ZOO 4905 Environmental Archaeology Collections Experience – Summer 2004 (1 student, 3 credits), Spring 2002 (1 student, 3 credits)

SUNY, Potsdam

Formal Courses (evaluations are provided where available, ranked out of 5.0)

Introduction to Archaeology: A four-credit archaeological methods course including a lab component and traditional lectures. *Taught two sections.

ANTA 105 – Fall 1997-Evaluated 4.53, *Spring 1999-Evaluated 4.72, *Fall 1999-Evaluated 4.71, *Fall 2000-Evaluated 4.45

Ancient People and Places: Reviews world prehistory from earliest peoples through the development of civilization around the world

ANTA 106 – Spring 2000-Evaluated 3.94; Spring 2001-Evaluated 3.3

Archaeology of Ancient Mexico and Central America: A review of Mesoamerican archaeology from Paleolithic to Colonial times.

ANTA 350 - Spring 1999-Evaluated 4.75; Spring 2000-Evaluated 4.23; Spring 2001-Evaluated 4.81

Lessons from Ancient Environments: A discussion class debating major controversies in human environmental impact research around the world

ANTA 354 – Fall 1997-Evaluated 5.0, Spring 2000-Evaluated 4.70

Anthropological Theory and Method A review of theory and method as it applies to anthropological ethics and the protection of cultural heritage.

ANTH 391 - Spring 2001-Evaluated 5.0

Environmental Archaeology: Combines lectures, case-study student presentations and a hands-on lab component to teach the methods of environmental archaeology

ANTA 395 – Fall 1999-Evaluated 4.8, Fall 2000-Evaluated 4.64

Anthropological Teaching Methods: Teaching students are taught foundation skills for teaching archaeology in a classroom and lecture situation

ANTH 392 - Fall 1999, Spring 2000, Fall 2000, Fall 2001

Advanced Archaeological Research Methods: An Archaeology Major capstone course requiring supervised student research

ANTA 410 - Spring 2000, Spring 2001

Archaeological Field Techniques: Students travel to Guatemala and Honduras and participate in environmental archaeology investigations

ANTA 415 – Summer 2000

Zooarchaeology: An intensive introduction to the methods of animal bone analysis from identification through interpretation

ANTA 450 - Fall 1999-Evaluated 5.0, Fall 2000, Fall 2001

Independent Study and Tutorial Courses

Practical Zooarchaeology

Animals and Their Role in Ancient Cultures

Presenting the Past: Archaeology in Fiction/Presenting the Past: Archaeology on the Net;

Ancient Maya Health

Advanced World Prehistory

GRADUATE STUDENTS ADVISED

Chair of doctoral committee for:

Thornton, Erin Kennedy, Anthropology, started Fall 2003, expected graduation Spring 2009

Dissertation Topic: Mesoamerican zooarchaeology and trade of animal products among the Classic Maya

Chair of masters committee for:

Anderson, Elyse, UF Anthropology, started Fall 2006 expected graduation Spring 2009

Thesis Topic: Tracking ancient Maya ritual animal bone use through ethnozoology and zooarchaeology

Kavountzis, Erol, UF Anthropology, started Fall 2006, expected graduation Spring 2009

Thesis Topic: Zooarchaeological research on animal remains in Classic Maya cave deposits, a spatial analysis

Kay, Michael, UF Anthropology, started Fall 2005, expected graduation Spring 2009

Thesis Topic: Zooarchaeology of early complexity as revealed in animal remains from Panamanian coastal villages

Tromley, Lisa, Anthropology, started 2004, on leave

Thesis Topic: GIS analysis of Maya settlement carrying capacities and implications for the abandonment of the Motul de San Jose polity, Guatemala

Co-Chair of masters committee for:

Van Dyke, Ryan, UF Anthropology, started Fall 2007 (co-chair Susan deFrance), expected graduation Spring 2010

Thesis Topic: Zooarchaeology of the San Juan del Puerto Mission Site

Member of doctoral committee for:

LeFebvre, Michelle, UF Anthropology, started Fall 2006

Dissertation Topic: Archaeology of Cedar Caye, Florida

Craig, Christine, UF School of Natural Resources and Environment, started January 2005

Dissertation Topic: Forensic Environmental Anthropology

Saqui, Pio, UF Anthropology, started Fall 2004, ABD

Dissertation Title: The transmission of Traditional Ethnoecological Knowledge within Maya communities of Belize

Batun, Adolfo Ivan, UF Anthropology, started Fall 2001, ABD

Dissertation Title: Buena Vista, Cozumel, México: Settlement Ecology and Agrarian Production At a Postclassic Maya Site

Rosenmeier, Michael, UF Geology, Graduated. PhD awarded Spring 2003

Dissertation Title: Holocene Paleolimnology of Lake Salpetén, Department of Petén, Guatemala.

Member of masters committee for:

Ellison, Tria Marie, UF Anthropology, started Fall 2006, passed comprehensives Spring 2008

Thesis Topic: Ceramic, zooarchaeological, and spatial analysis of Bayview Island, a Weeden Island site

Cannarozzi, Nicole, UF Anthropology, started Fall 2004, passed comprehensives Spring 2008

Thesis Topic: Seasonality from isotopic analysis of Virginia oysters from St. Catherines Island, Georgia.

Kozelsky, Kristin, FSU Anthropology, Graduated, MA awarded Fall 2004

Thesis Title: Identifying Social Drama in the Maya Region; Fauna from the Lagartero Basurero, Chiapas, Mexico

Pereira, Karen, UF Anthropology, started Fall 2006, Graduated, MA awarded July 2008

Thesis Title: Plain but not simple: the erection of stone monuments in Southern Mesoamerica during the Middle Formative period

Newell, Sarah, UF Geology, Graduated, MSc awarded Spring 2005

Thesis Title: Relative changes in C3 and C4 biomass recorded by carbon isotopes of lipid biomarkers in the Maya Lowlands of Petén, Guatemala

LeFebvre, Michelle, UF Anthropology, started Fall 2003, Graduated, MA awarded Spring 2006

Thesis Title: Prehistoric exploitation of vertebrates at the Grand Bay Site, Carriacou, West Indies

SERVICE

UNIVERSITY GOVERNANCE AND SERVICE

University

University of Florida

2006 University of Florida Latin American Studies Field Research Grants Committee

SUNY at Potsdam

2000-2001 Co-Chair – Presidential College Reaccreditation Committee (Academic Programs and Support)

1999-2000 Member – University Standing Committee on Academic Policies and Standards

1999-2001 Member – Research and Creative Endeavors Granting Committee

Department

Florida Museum of Natural History

2007-present Chair – FLMNH University Teaching Committee

2007 Member – FLMNH Informatics Hire Ad Hoc Committee

2004 – 2007 Member – FLMNH University Teaching Committee

2005 Leader – Mayan Wonders tour, FLMNH/Holbrook Travel guided tour of Honduras, Belize, and Guatemala

2003 – 2004 Chair – search committee, Collection Manager in Environmental Archaeology

2002 – 2005 Member – FLMNH Strategic Planning Committee, Research Sub-Committee

Department of Anthropology, SUNY Potsdam

2001 Chair – Department Honors Program development

1999-2000 Museology Physical Anthropology and Linguistics Search Committees

1998-2001 Faculty Advisor – Anthropology Club

SCIENTIFIC AND PROFESSIONAL SERVICE

Editorships

2006 – present Member, Editorial Board: *Journal of Ethnobiology* [reviewed 9 papers to date]

2007 Invited Guest Editor: *Quaternary International*, [reviewed 4 papers]

Proposals Reviewed for

Canon Parks Science Scholars Program for the Americas (8 proposals in 2007)

National Science Foundation (1 proposal in 2002, 3 in 2003, 1 in 2006, 2 in 2007)

American Association for the Advancement of Science (1 proposal in 2003)

Smithsonian Institution (1 proposal in 2002)

National Center for Preservation Technology (1 proposal in 1999)

Manuscripts Reviewed for

Current Anthropology (1 article in 2007)

Cotsen Press, UCLA (1 book manuscript in 2007)

Canadian Zooarchaeology (1 article in 2007)

Latin American Antiquity (1 article in 2007; 1 in 2005; 2 in 2004, 1 in 2003; 1 in 2002)

Oxbow Books (1 book chapter in 2003)

Routledge Press (1 book manuscript in 2002)

Journal of Human Ecology (1 article in 2000)

Journal of Archaeological Science (1 article in 2000, 1 in 2001)

Tenure and Promotion Evaluation for

Smithsonian Institution (1 in 2006)

Cornell University (1 in 2003)

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**Committee Membership**

- 2008-2011 Dienje Kenyon (Society for American Archaeology Committee awarding funds to promising young researchers)
- 2007-2010 Member, Advisory Board *Archaeoinformatics* (a Society for American Archaeology, National Science Foundation, Mellon supported initiative in archaeological cyberinformatics)
- 2002 Member, Society for American Archaeology Conference Organization Committee

Professional Membership

- 2001-present Association of Environmental Archaeology
- 1999-present International Council of Zooarchaeology (member Worked Bone Working Group, Archaeomalacology Working Group)
- 1999-present Canadian Archaeological Association
- 1994-present Society for Archaeological Science
- 1994-present Canadian Zooarchaeology
- 1991-present Society for American Archaeology
- 1990-present American Anthropological Association

Honorary Memberships

Phi Kappa Phi (Inducted 2001)

Sigma Xi Society (Full Membership since 2000)

Lambda Alpha Anthropological Honors Society (Inducted 1998)

RESEARCH, CURATION, AND TEACHING STATEMENTS

RESEARCH

My research is on ancient human-environment interactions in Mesoamerica and the greater circum-Caribbean basin as revealed through environmental archaeology. My current work in Mesoamerica emphasizes the study of animal bones from archaeological sites (zooarchaeology) and, through collaboration, other environmental archaeology studies. I concentrate on two research areas:

- Human impact on ancient environments including over-exploitation and human-caused landscape change, and
- Politics and economics of ancient natural resource use.

My research is both collection- and field-based; I conduct active field and laboratory research in Guatemala, Honduras, and Belize while integrating data from the Environmental Archaeology Program collections that I curate.

While at the University of Florida I have published 28 peer-reviewed articles and chapters in leading refereed journals and books, one edited book, and one single-authored book (both refereed). I have received \$213,049 in external grants and contracts for research and curation (\$197,249 while at UF), and supervised \$114,648 of externally funded contracts and student research grants. As the only zooarchaeologist to work extensively in the southern Maya lowlands since the 1970s, my research has specific impact on Mesoamerican archaeology and environmental archaeology as well as broad implications for conservation biology and biological quaternary studies. My edited volume is the definitive work on Maya zooarchaeology.^{1,2*} By invitation, I have written several summary works on the subject.^{3,11,3,6,3,2,4,2}

My predoctoral work in Belize quantified ancient harvest pressure on molluscs^{2,1} and early Spanish-contact animal-use.^{3,1} Using faunal remains, my dissertation research tested models of environmental degradation as causal to the Classic Maya collapse. Supported by Wenner Gren, SSHRC, and Sigma Xi funding, I found that models of changing socioeconomics were more appropriate explanations of the collapse than were those of environmental overuse.^{1,4,2,2,3,7}

My current investigations build on these earlier studies.

Human Impact on Ancient Environments: First, my NSF-funded *Proyecto Zooarqueológico del Area Maya* compiles regional data on Maya animal use to evaluate ancient human impact on fauna and landscapes. To study direct evidence for overexploitation of animals using this regional database, I applied optimal foraging theory to track resource depression,^{2,18,2,13,2,8} showing that while large game was never depleted by the Maya, white-tailed deer were overhunted during periods of peak political activity. Investigating human-caused landscape changes using regional data, I quantified stable carbon isotopic deer-bone signatures^{2,17} and habitat representation of animals^{2,19} to reveal initial forest impacts from early land clearance, but long-term stability of high and secondary forests. These results refute a model of deforestation for the entire region.

I currently pursue questions of human impact in two new studies. Collaboratively, I am investigating human response to climate change, tracking oxygen isotopic ratios in deer teeth and bone from dated archaeological contexts.^{8,2,21} I also spearhead a collaborative ancient DNA study of the earliest example of the northern turkey in the Maya area.^{6,28}

Politics and Economics of Ancient Natural Resource Use: My research on human impact reveals that ancient Mesoamerican environmental interactions were site- and period-specific. Thus the second facet of

my research investigates the ancient politics and economics that underlie human choice in environmental management strategy.

I co-direct the Motul de San Jose Archaeological-Ecological Project. My Ecology Subproject combines collaborative research in zooarchaeology, soil carbon isotopes, soil potentiality, and ethnographic indigenous soil taxonomies to investigate the economics and politics of the Motul polity.^{2.10, 2.11, 2.7} We reveal status-based differential access to many environmental products but surprisingly uniform access to agricultural products and land.

I also approach ancient politics and economics through studies of bone/shell artifacts. I published the first detailed description of bone-artifact production methods in the Maya area.^{2.15, 3.3} I continue to investigate the social implications of changing bone and shell economies.^{4.1} My collaborative zooarchaeological/lithic analysis at Aguateca revealed that although elite bone/shell crafting was common, initial forms were produced in lesser-status households and by women.^{2.12} This expands my earlier work which showed differences in animal use between high-status and low-status elite households at Aguateca, suggesting previously unknown economic differentiations.^{2.3}

Recent ethnoarchaeological studies of modern practices allow me to better understand the choices made by the Maya. I found that animal waste is rarely discarded in locations or forms that would be easily recovered by archaeologists.^{8.2, 20, 7, 47} Also, most animal “waste” is considered valuable material for ritual and ritual-medicinal activities. Thus, I began collaborative investigations of ritual animal-remain caching^{2.20, 8.1.8, 7, 50} and ritual/medicinal animal use.^{8.1, 9} These ethnographic studies also directly inform my ongoing zooarchaeological studies of ritual animal use in Maya burials and caves.^{2.14, 7, 52, 7, 42} Together these ancient and modern studies suggest that, beyond diet and artifact, the ritual value of animals may have been key to their use (or overuse).^{2.21, 2.8}

* Superscripts indicate publications as numbered in Curriculum Vitae Publication/Conference Papers lists

CURATION

As the Assistant Curator of the Environmental Archaeology Program (EAP) of the Florida Museum of Natural History since 2001, one of my primary responsibilities has been collections curation. The EAP collections, begun in 1969, are one of the world's largest combined collections of comparative and archaeological environmental materials and include the world's foremost Holocene record of archaeological animal remains for the Southeastern United States and the circum-Caribbean.

Since 2001, the EAP collection has grown by 30% in comparative specimens and of 15% in archaeological collections. This includes several noteworthy acquisitions in our region of historic strength, the SE USA (including a 48% increase to our circum-Caribbean ray-finned fish holdings in the Paloumpis collection, and the St. Catherines Island Paleoenvironmental Collection donated with full curation funding), and also a steady growth in Mesoamerican collections as a result of my research (11% of new catalogued zoological comparative specimens and 35% of new archaeological collections including archaeological animal, plant, and soil remains).

During this period our collections have been actively used in national and international collections-based research by the biological and anthropological scientific community. This use includes over 200 professional and student researcher visits, 91 loans and transactions with professional researchers totaling ~1427 specimens/archaeological collections, active use of our off-site collaborative teaching collection housed at the UF, and 250,000 web visits and 31,000 queries to our database. Annual online visits have increased from 4,000 in 2001 to over 48,000 in 2007.

I have increased the research value of the Environmental Archaeology Program collections through the following improvements successfully funded by curation grants and private donations (\$96,234) and support from research contracts and grants:

- (1) integration of our three component research areas, zooarchaeology, archaeobotany, and archaeopedology through
 - (a) physical expansion and unification of our laboratory and archaeological collections, and
 - (b) standardization of methods of curation, program management, and research across our diverse group through a strategic plan and new, documented, unified protocols,
- (2) improved collections curation including
 - (a) physical upgrades to zooarchaeological collections (~85% of lots), zoological comparative collections (~50% of specimens), waterlogged archaeobotanicals (100% lots), dry archaeobotanicals (on-going), and off-site collections (50% lots),
 - (b) cataloguing or inventorying all botanical comparatives, SE USA archaeopedological collections, Mesoamerican collections, in-house "bulk" collections, and off-site holdings, and
 - (c) implementation of improved collection acquisition, preparation, and use tracking systems.
- (3) increased accessibility
 - (a) through on-going development of a web accessible, SQL Environmental Archaeology database that combines comparative and archaeological zoological, botanical, and geological data into a comprehensive collections and research system. This will replace the existing zooarchaeology database and expand our online zoological comparative database to include all data types, and
 - (b) through the compilation of a digital archive of comparative skeletal images to be served online. This includes images of all vertebrate (and some invertebrate) Mesoamerican taxa including most taxa currently housed in the Florida Museum collections (10,000 finished images), Wing's skeletal fish remain images now compiled into a web accessible "Digital Fish Atlas" (2,400 finished images), and a collection of images completed by and for forensic police specialists (282 images).

TEACHING

Teaching Philosophy: Education is a vital element in my activities whether as formal classroom teaching, the inclusion of students in my research and curation activities, or outreach to the public. I feel strongly that an understanding of the close relationship between humanity and the environment, both past and present, is essential to all curricula. As a research scientist, I also believe that teaching must be an integrative pursuit that brings a variety of research interests into an active and participatory learning environment that emphasizes intellectual growth.

Instruction and Course Development: I have been teaching as a faculty member since 1997, first at SUNY Potsdam where teaching was my primary responsibility and where I taught 29 formal classes in 10 independently-developed courses. Teaching continues to be an integral part of my primary research and curation responsibilities at the University of Florida, and I offer formal courses in environmental archaeology and zooarchaeology, and supervise internships and independent studies courses that provide hands-on research and collections experiences. I am a member of the UF CLAS graduate teaching faculty, an affiliate Assistant Professor in the Department of Anthropology, the Latin American Studies Program, and the Land Use and Environmental Change Institute.

While at the University of Florida, I have designed and taught four formal courses in environmental archaeology (Lessons from Ancient Environments – a graduate discussion class, and Environmental Archaeology – a graduate/undergraduate methods class) and zooarchaeology (Maya Zooarchaeology and Zooarchaeology of Central America – both graduate discussion classes). I am also very active in supervising credit internships and independent studies courses through the departments of Anthropology, Zoology, and Latin American Studies, and have offered 26 classes in 15 different courses to 31 students. These classes include directed research/collections activities and incremental learning outcomes through the semester. I feel these are the most important educational experiences I can offer as the curator of a world-class museum collection and laboratory.

I plan to continue developing graduate and specialized undergraduate level courses at the University of Florida and eventually to alternate my methods- and discussion-based classes in environmental archaeology, as well as my Maya and Central American zooarchaeology classes. I also hope to develop a lower-level discussion class called Ancient Maya Animals that will appeal to students from both Anthropology and Zoology.

Mentoring: I currently chair one doctoral committee, four masters committees, and co-chair one masters committee. I have served on four doctoral committees (one graduated), and six masters committees (four graduated, one from FSU) from the departments of Anthropology, Geology, and the School of Natural Resources and Environment. I have unofficially mentored several graduate students from other institutions working with the Motul de San Jose Archaeology Project that I co-direct. I also supervise Environmental Archaeology laboratory volunteers and visiting student researchers from around the world. Since my employment with the Florida Museum, a total of 25 non-UF student researchers (visiting for ~32 person months) and 8 volunteers have worked in the EA laboratory. Finally, important with regard to my mentoring activities is the Florida Museum University Teaching Committee which, under my chairmanship since 2007 has implemented weekly discussion series for Florida Museum students, and created the Florida Museum Student listserv and the Florida Museum Graduate Student website.