**Neil A. Duncan**

Assistant Professor

Department of Anthropology

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# Education

2010 **Ph.D.** University of Missouri, Columbia

 Dissertation*:*

*Paleoethnobotany of Buena Vista: A Case Study of Ritual Feasting in Late Preceramic Peru*

Committee: Deborah M. Pearsall (Chair), Robert A. Benfer, Jr., Lisa Sattenspiel, Christine S. VanPool, Frances M. Hayashida, Michael D. Glascock

2003 **M.A.** University of Missouri, Columbia

1994 **B.A.** cum laude with distinction, Anthropology, Georgia State University, Atlanta

# Professional Employment

2015- Assistant Professor of Anthropology, University of Central Florida

2013-2015 Postdoctoral Scholar, Stanford University Archaeology Center

2012-2013 Adjunct Professor of Anthropology, University of North Georgia, Dahlonega

2012-2013 Instructor of Anthropology, School of Liberal Arts, Georgia Gwinnett College, Lawrenceville

2011 Instructor of Anthropology, University of Missouri, Columbia

2010-2013 Research Specialist, Paleoethnobotany Laboratory, American Archaeology Division, University of Missouri, Columbia

# Research & Theoretical Interests

### Primary

Paleoethnobotany; archaeobotany; plant-people interrelationships; plant microfossils (phytoliths, starch grains); agricultural origins; cultural adaptations and paleoenvironment, foodways

### Secondary

 Food and ancient cuisine, feasting and rituals involving food and drink

# Research

|  |  |  |
| --- | --- | --- |
| Citations | h-index | i10-index |
| 235 | 8 | 7 |

Google Scholar, Jan 2020

#### **Journal Impact Factors**

*Proceedings of the National Academy of Sciences:* 9.58

*Quaternary Science Reviews:* 4.92

*Journal of Archaeological Science:* 3.030

*The Holocene:* 2.547

*Quaternary International:* 2.19

*Latin American Antiquity:* 0.983

#### Refereed Articles

In prep **N.A. Duncan** and J. Walker. Donald Lathrap, the Tropical Forest, and Hemispheric Archaeology for submission to *Andean Past.*

In revision Adair, M., **N.A. Duncan**, S. Bozarth, R. Lustek, D. Young. The Age and Context of Early Maize (*Zea mays*) in the North American Central Plains. Submitted to *American Antiquity*

2020 Pearsall, D.M., **N.A. Duncan**, K. Chandler-Ezell, D. Ubelaker, J.A. Zeidler. Food and Society at Real Alto, an Early Formative Community in Southwest Coastal Ecuador. *Latin American Antiquity* 31(1):122-142.

2019 **N.A. Duncan**, J. Starbuck, L. Liu. A Method to Identify Job’s Tears, Coix lacryma-jobi L, Phytoliths in Northern China. *Journal of Archaeological Science: Reports* 24:16-23.

2019 Liu, Li, **N.A. Duncan**, Xingcan Chen, Jianxin Cui. Exploitation of Job’s tears in Paleolithic and Neolithic China: Methodological problems and solutions. *Quaternary International*. 529:25-37.

2019 Cardale de Schrimpff, M., P. Botero, A. M. Groot, A. Betancourt, J.C. Berrio, **N. Duncan**. Culture and the Environment on the Floodplain of the River Cauca in southwestern Colombia: Reconstructing the Evidence from the Late Pleistocene to the Late Holocene. *Quaternary International*. 505:34-55.

2017 Cardale de Schrimpff, M., P. Botero, A. M. Groot, A. Betancourt, J.C. Berrio, **N. Duncan**. Inundaciones y Sequías: Estrategias Precolombinas para Sobrevivir en el Valle Geográfico del Río Cauca. *Boletín de Arqueología de la Fian*, 26(1):4-28.

2016 Pearsall, D., **N.A. Duncan**, J.G. Jones, D.E. Friedel, C.I. Veintimilla, and H. Neff. Human-environment interactions during the early mid-Holocene in coastal Ecuador as revealed by mangrove coring in Santa Elena Province*.* *The Holocene*, 26(8):1262-1289.

2016 Li Liu, **N.A. Duncan**, Xingcan Chen, Hao Zhao, Ping Ji. Changing patterns of plant-based food production during the Neolithic and early Bronze Age in central-south Inner Mongolia, China: An interdisciplinary approach. *Quaternary International,* 419:36-53.

2016 Liu, L., **N.A. Duncan**, X. Chen, P. Jing. Plant-based Subsistence Strategies and Development of Complex Societies in Neolithic Northeast China: Evidence from Grinding Stones. *Journal of Archaeological Science: Reports,* 7:247-261.

2015 P.E. Siegel, J.G. Jones, D.M. Pearsall, N.P. Dunning, P. Farrell, **N.A. Duncan**, Jason H. Curtis, and Sushant K. Singh. Paleoenvironmental Evidence for First Human Colonization of the Eastern Caribbean, *Quaternary Science Reviews,* 129:275-295.

2015 Liu, L., **N.A. Duncan**, X. Chen, G. Liu, and H. Zhao. Plant Domestication, Cultivation, and Foraging by the First Farmers in Early Neolithic Northeast China; Evidence from Microbotanical Remains. *The Holocene,* 25(12):1965-1978.

2015 Ball, T., K. Chandler-Ezell, R. Dickau, **N.A. Duncan**, T. C. Hart, J Iriarte, C. Lentfer, A. Logan, H. Lu, M. Madella, D. M. Pearsall, D. R. Piperno, A. M. Rosen, L. Vrydaghs, A. Weisskopf and J. Zhang. Phytoliths as a tool for investigations of agricultural origins and dispersals around the world. *Journal of Archaeological Science,* 68: 32-45.

2015 Liu, L., **N.A. Duncan**, X. Chen, G. Liu, and H. Zhao. Plant Domestication, Cultivation, and Foraging by the First Farmers in Early Neolithic Northeast China; Evidence from Microbotanical Remains. *The Holocene*, 25(12):1965-1978.

2015 Li Liu, **N.A. Duncan**, Xingcan Chen, Hao Zhao, Ping Ji. Changing patterns of plant-based food production during the Neolithic and early Bronze Age in central-south Inner Mongolia, China: An interdisciplinary approach. *Quaternary International*. http://dx.doi.org/10.1016/j.quaint.2015.02.002.

2013 **Duncan, N.A**., M. Cardale Schrimpf, A.M. Groot, P. Botero, A. Betancourt, J.C. Berrio. Human Occupation and the Environment during the Holocene in the River Cauca Valley, Colombia: The evidence from paleobotany and from soil studies. *Dialogo Andino*, No 41, 2013:159-170.

2009 **Duncan, N.A.,** D.M. Pearsall, R.A. Benfer. Jr Gourd and Squash Artifacts Yield Starch Grains of Feasting Foods from Preceramic Peru*, Proceedings of the National Academy of Sciences* 106:13202-13206.

2007 Benfer, R.A., B. Ojeda, N.A. Duncan, L.R. Adkins, H. Ludeña R., M. Vallejos, M., V. Rojas A., O. Ocas A., O.Ventocilla, G. Villarreal.La Tradición Religioso-Astronómica en Buena Vista. *Boletín de Arqueología PUCP* 11:53-102.

#### Reviewed Book Chapters

Submitted **N.A. Duncan** and Deborah M. Pearsall. Fitolitos de muestras de sediment del valle alluvial del río Cauca. In *Occupaciones Humanas y el Medio Ambiente en el Valle del río Cauca 8000-0 A.C.,* edited by Marianne Cardale de Schrimpff. Banrepcultural FIAN, Bogota, Colombia.

2020 Pearsall, Deborah M., **N.A. Duncan**, John G. Jones, and Dorothy E. Friedel.

 The Santa Elena Peninsula in the Early Mid-Holocene: Human-Environment Interactions Before and During the “Hiatus” Between Vegas and Valdivia. In Las Vegas. In *The Early Holocene Archaeology of Human Occupation in Coastal Ecuador*, edited by Peter Stahl, and Karen Stothert, pp. 35-44. University of Pittsburgh Memoirs in Latin American Archaeology No.25. University of Pittsburgh Center for Comparative Archaeology, Pittsburgh.

2019 P.E. Siegel, J.G. Jones, D.M. Pearsall, N.P. Dunning, P. Farrell, **N.A. Duncan**, and Jason H. Curtis. Ecosystem Engineering During the Human Occupations of the Lesser Antilles. In *Early Settlers of the Insular Caribbean: Dearchaizing the Archaic,* edited by Corinne L. Hofman and Andrzej T. Antczak. Sidestone Press.

2018 P.E. Siegel, J.G. Jones, D.M. Pearsall, N.P. Dunning, P. Farrell, **N.A. Duncan**, Jason H. Curtis, and Sushant K. Singh. Humanizing the Landscapes of the Lesser Antilles during the Archaic. In *The Archaeology of Caribbean and Circum-Caribbean Farmers (5000 BC - AD 1500)* (Chp. 2), edited by Basil A. Reid. Routledge, London.

2018 D.M. Pearsall, J.G. Jones, N.P. Dunning, P.E. Siegel, P. Farrell, J.H. Curtis, and **N.A. Duncan**. Methods for Addressing Landscape History (Chp. 4), In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*, edited by Peter E. Siegel. Berghann Books.

2018 P. Farrell, **N.A. Duncan**, J.G. Jones, N.P. Dunning, D.M. Pearsall, and P.E. Siegel. Trinidad (Chp.5), In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*, edited by Peter E. Siegel. Berghann Books.

2018 J.G. Jones, D.M. Pearsall, P. Farrell, N.P. Dunning, J.H. Curtis, **N.A. Duncan**, and P.E. Siegel. Grenada (Chp. 6), In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*, edited by Peter E. Siegel. Berghann Books.

2018 **N.A. Duncan**, N.P. Dunning, J.G. Jones, D.M. Pearsall, and P.E. Siegel. Martinique (Chp. 9) In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*, edited by Peter E. Siegel. Berghann Books.

2018 N.P. Dunning, J.G. Jones, D.M. Pearsall, **N.A. Duncan**, and P.E. Siegel. Antigua (Chp. 10), In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*, edited by Peter E. Siegel. Berghann Books.

2018 J.G. Jones, N.P. Dunning, **N.A. Duncan**, D.M. Pearsall, and P.E. Siegel. Barbuda (Chp. 12), In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*, edited by Peter E. Siegel Berghann Books.

2018 D.M. Pearsall, N.P. Dunning, J.G. Jones, **N.A. Duncan**, and P.E. Siegel. St. Croix (Chp. 13), In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*, edited by Peter E. Siegel. Berghann Books.

2018 P.E. Siegel, D.M. Pearsall, N.P. Dunning, J.G. Jones, P. Farrell, **N.A. Duncan**, and J.H. Curtis. Assessing Colonization, Landscape Learning, and Socionatural Change in the Eastern and Southern Caribbean, In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean* (Chp.14), edited by Peter E. Siegel. Berghann Books.

*Prior to UCF*

2008 **Duncan, N.A**., B. Ojeda, R.A. Benfer, Jr., H. Ludeña, and M. Vallejos. Investigaciones Arqueológicas en el Sitio de la Quipa, Chilca. In *La Arqueología de la Costa Centro Sur Peruana*. Henry Tantaleán and Omar Pineda, eds. Avqi Ediciones, Lima, Peru.

1997 **Duncan, N.A**. Bottles in the Basement: Artifactual Evidence of Late Nineteenth Century Health Care from the Medical College of Georgia, pp.48-80. In *Bones in the Basement: Postmortem Racism in Nineteenth Century Medical Training*, edited by Robert L. Blakely and Judith M. Harrington. Smithsonian Institution Press.

*Unpublished Technical Reports – Cultural Resource Management*

2018 **Duncan, N.A.** and D.N. Young (UCF anthropology graduate student). *Results of Dental Calculus and Ceramic Residue Analysis for Starch and Phytoliths from Prehistoric Contexts in Kansas: Submitted to Mary Adair, University of Kansas, November 2018*. Report on file at the UCF Paleoethnobotany and Environmental Archaeology Laboratory.

2014 **Duncan, N.A.** *Microfossil Analysis of Sediments and Stone Tools, Bermejo and Pucalpa, Ecuador.* Submitted to Andrea Cuellar, University of Lethbridge. Report on file with author.

2012 **Duncan, N.A**., D.M. Pearsall. *An Assessment of Microfossil Preservation in Artifact Residue and Soils from Two Hopewell Period Sites, Kansas.* Submitted to Mary Adair, Archaeology Research Center, University of Kansas. Report on file at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2012 **Duncan, N.A**., D.M. Pearsall. *Phytolith Analysis of Planting Hole Sediments from the site of Las Capas, Arizona.* Submitted to Fred Nials, Desert Archaeology, Inc. Report on file at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2011 **Duncan, N.A**., D.M. Pearsall. *Report on Phytoliths and Starch Microfossils from Artifact Residues and Sediment Samples from Site PO-29, Puerto Rico*. Submitted to New South Associates, Greensboro, NC. Report on File at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2011 **Duncan, N.A.,** D.M. Pearsall. *Preliminary Report on Phytoliths from Sediment Samples from the Cauca Valley, Colombia*. Submitted to Marianne Schrimpff, Pro Calima Foundation, Bogota, Colombia. Report on File at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2011 **Duncan, N.A**., D.M. Pearsall. *Report on Phytoliths from Soils from the Santa Rosa Site, Tumbes Region, Peru.* Submitted to Jerry Moore, California State University, Dominquez. Report on file at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2011 **Duncan, N.A**., A. Middleton, D.M. Pearsall. *Report on Artifact Residue Analysis for Starch Grain and Phytoliths, Hacienda Zuleta, Ecuador.* Submitted to Steve Athens, International Archaeological Research Institute, Inc. Report on file at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2010 **Duncan, N.A**., D.M. Pearsall. *Interim Report on Phytoliths and Starch from Dung of Cuy (Cavia porcellus) for the Ynalche Project, Peru*. Submitted to Frances Hayashida, University of New Mexico. Report on file at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2010 D.M. Pearsall, **N.A. Duncan**, J. Fenton. *Phytolith Analysis of Core Sediments from the Historical Ecology in the Pre- Columbian Caribbean Project*. Report prepared for the School for Advanced Research on the Human Experience, Research Team Short Seminar, October 1921, 2010.

2009 **Duncan, N.A.,** D.M.Pearsall. *Preliminary Report on Phytoliths and Starch from Soils for the Ynalche Project, Peru*. Submitted to Frances Hayashida, University of New Mexico. Report on file at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2008 **Duncan, N.A**. and D.M. Pearsall. *Report on Donkey Dung Phytolith Content, Ascención Island*. Submitted to Thomas Smith, Southern Arkansas University. Report on file at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

2007 **Duncan, N.A**. and D.M. Pearsall. *Preliminary Report on Phytolith and Starch Analysis of Soil Samples from a Modern Maize Beer Brewery*. Submitted to Frances Hayashida University of Missouri. Report on file at the Paleoethnobotany Laboratory, Division of American Archaeology, University of Missouri.

1997 **Duncan, N.A**. Cultural Resource Survey of the West 11 Thinning Project, Oconee National Forest, Jasper County, Georgia. Forest Service Report No. 97GA08-06; Contract No. 43-435H-7-0075. Prepared by Neil A. Duncan

1997 Webb, R.S. and **N.A. Duncan**. *Cultural Resource Survey of Proposed Rivermoore Farm Development Site, Development Area 1, Gwinnett County Georgia*. R.S. Webb and Associates, Holly Springs, GA.

1996 Gantt, M.E., **N.A. Duncan**. *Cultural Resources Survey and Evaluative Testing at Sites 9RI1040 and 9RI1041, Proposed De-Inking Facility Site Richmond County, Georgia*. R. S. Webb and Associates, Holly Springs, GA.

1996 Webb, R.S., M.E. Gantt, **N.A. Duncan**. *Cultural Resources Survey, Proposed Silver Creek Future Development Area Phases IV-X Forsyth County Georgia*. R. S. Webb and Associates, Holly Springs, GA.

1996 Webb, R.S., M.E. Gantt, **N.A. Duncan**. and N.L. Norman Cultural Resources Survey and Evaluative Testing at Site 9GW347, Proposed Annistown Road Improvements Project, Gwinnett County, Georgia. R. S. Webb and Associates, Holly Springs, GA.

1995 Gantt, M.E., **N.A. Duncan**. *An Eligibly Situated Establishment: Archeological Testing and Data Recovery at the St. James Hotel Site (1DS47), Selma, Alabama*. R. S. Webb and Associates, Holly Springs, GA.

1993 **Duncan, N.A**. *A Report on the Human Skeletal Remains Removed from Mound E at Kolomoki in Southwestern Georgia*. Thesis completed as requirement for Graduation with Distinction in Anthropology, Georgia State University.

## Conference Presentations

#### Invited International Conferences

2019 Discussant for Forum *Visualizing Plants: Productive Ways to Present Archaeobotanical Data*, organized by Christine A. Hastorf, Katherine Chiou, and Geoffrey Taylor. **84th Annual Meeting of the Society for American Archaeology, Albuquerque, NM.** April 10-14.

2018 **Duncan, N**.**A.** and J. Walker. *Donald Lathrap, the Tropical Forest, and Hemispheric Archaeology.* Presented in the session “Legacies of Archaeologists in the Andes,” organized by Monica Barnes and Mario Rivera. **83rd Annual Meeting of the Society for American Archaeology, Washington D.C.** April 11-15.

2017 **Duncan, N.A.,** P. Siegel, J. G. Jones, N. P. Dunning, and D. M. Pearsall, *Causes and Consequences of Colonization in the Caribbean.* Presented in the session “Sailing at the Edge of Time: Global Perspectives on Island Colonization,” organized by Matthew Napolitano, Robert DiNapoli, and Jessica Stone. **82nd Annual Meeting of the Society for American Archaeology, Vancouver, BC.** March 29- April 2.

2016 **Duncan N.A.,** P. Siegel, J. G. Jones, N. P. Dunning, and D. M. Pearsall. *Caribbean landscapes during the late-precolonial and early-colonial periods*. Presented in the session “Caribbean Environmental Archaeology: New Perspectives on Human Ecodynamics and Social Relations,” organized by Christina M. Giovas, Jason E. Laffoon, and Michelle J. LeFebvre. **81st Annual Meeting of the Society for American Archaeology, Orlando**. April 6-10.

2015 **Duncan, N.A.** and L. Liu. The Nature and Status of Paleoethnobotany: *Revealing Job’s Tears in Ancient China*. Presented in the session “The Cutting Edge of American Paleoethnobotany” organized by Christine Hastorf. **80th Annual Meeting of the Society for American Archaeology, San Francisco, CA**. April 15-19.

2015 L. Liu, **Duncan**, **N.A.**, X. Chen, J. Cui. *Identifying Job’s Tears in the Archaeological Record: A Multi-Disciplinary Approach*. Presentation in the symposium “Issues and Directions in Starch Grain Research” chaired by Tom Hart. **80th Annual Meeting of the Society for American Archaeology, San Francisco, CA**. April 15-19.

2014 **Duncan, N.A.** *Multiple Approaches in Paleoethnobotany: Incorporating Proxy Indicators at Buena Vista, Peru*. Presented in the session “World Ethnobiology: Papers in Honor of Deborah M. Pearsall,” organized by Peter E. Siegel. **79th Annual Meeting of the Society for American Archaeology, Austin, TX**. April 23-27.

2014 P. Siegel., D. Pearsall, J. Jones, N. Dunning, P. Farrell, **N.A. Duncan**, J.H. Curtis, S. Singh. *Paleoecological Evidence for Early Human Colonization of the Pre-Columbian Caribbean*. Paper presented in the session “World Ethnobiology: Papers in Honor of Deborah M. Pearsall,” **79th Annual Meeting of the Society for American Archaeology, Austin, TX,** April 23-27.

*Invited International Conference Moderator*

2015 Moderator for *The Origins and Development of Urbanism in Early China from a Comparative Perspective*. **Stanford International Symposium, Stanford Archaeology Center,** April 20-21, 2015.

2014 Moderator for *Archaeological Science and Social Theory: Thinking Critically and Reflexively about Instrumental Practice*. **Thinking Archaeological Science Symposium, Stanford University**, May 16-17*.*

#### International Conference Presentations

2017 Botero, P., M. Cardale de Schrimpff, A.M. Groot, J.C. Berrio, **N.A. Duncan**

 *Lo que el estudio de suelos aporta a la arqueología y lo que la arqueología aporta al estudio de suelos - el caso del valle aluvial del rio Cauca*. Paper presented at the **V Taller de Geoarqueologia de America Latina**, Universidad de Caldas, Manizinales, Colombia.

2016 M. Schrimpff, A.M. Groot, P. Botero, J. C. Berrío and **N.A. Duncan.** *A difficult environment with extraordinary advantages: strategies for survival on the floodplain of the river Cauca during the Holocene.* Paper presented at the **8th annual World Archaeological Conference**, Kyoto, Japan. August 28-September 2.

2015 M. Schrimpff, A.M. Groot, P. Botero, J. C. Berrío and **N.A.** **Duncan.** *Medio ambiente y cultura en el valle aluvial del río Cauca: del Precerámico al Formativo.* Paper presented in the symposium “Paleoclima, Arqueología e Interacción Humana en América Latina” at the **55th International Congress of Americanists,** San Salvador, El Salvador, July 12-17.

2012 M.J. Adair, **N.A. Duncan**, R. Lusteck, M. Malainey, and L. Perry. *Paleodietary Implications from Starch, Lipid and Phytolith Analysis: A Case from the Kansas City Hopewell.* Paper presented at the **70th Annual Plains Anthropological Society Conference**, Saskatoon, Canada, October 12-15.

2012 **Duncan, N.A.**, M. Cardale, A.M. Groot, P. Botero, A. Betancourt, J.C. Berrio.

*Human Occupation and the Environment during the Holocene in the River Cauca Valley, Colombia: The evidence from paleobotany and from soil studies****.* 52nd International Congress of Americanists**, Vienna, July 15-20.

2012 M. Schrimpff, A.M. Groot, P. Botero, J.C. Berrio, **N.A. Duncan.** *El Proyecto “Ocupaciones Humanas y el Medio Ambiente en el Valle Ancho del Alto Rio Cauca (8000-0 A.C.), Colombia”. Resultados recientes*. Paper presented at the **Society for American Archaeology Conferencia International**, Panama City, Panama, January 13-15.

2011 F. Hayashida, **N.A. Duncan**, D. Goldstein and L. Huamán. *Agriculture, Plant Use, and Political Change on the Late Prehispanic North Coast of Peru.* Paper presented at the **76th Annual Meeting of the Society for American Archaeology**, Sacramento, CA, March 30-April 3.

2011 **Duncan, N.A.** *Early Tropical Forest Cultigens or Interregional Exchange? Exogamous Plants at Late Preceramic Buena Vista, Central Coast of Peru*. Paper presented at the **76th Annual Meeting of the Society for American Archaeology**, Sacramento, CA, March 30-April 3.

2011 **Duncan, N.A.** *Ritual Feasting at Buena Vista: Special Foods, Ancient Cultigens or Interzonal Interaction in Late Preceramic Peru*. Paper presented at the **39th Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory**, Columbia, MO, February 26-27.

2009 **Duncan N.A.**, D.M. Pearsall, R.A. Benfer, Jr. *Appraising Evidence of Feasting at a Late Archaic Temple on the Central Coast of Peru*. Paper presented at the **74th Annual Meeting of the Society for American Archaeology**, Atlanta, GA, April 22-26.

2007 Pearsall, D.M. and **N.A. Duncan.** *Environmental Coring in SW Guayas Province, Ecuador: Dating of Sequences and Preliminary Results*. Paper presented at the **35th Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory**, Southern Illinois University,

2005 Pearsall, D.M., T. Hart, A. Logan, **N.A. Duncan**, M. C. O’Brien.

*Investigating the Impact of Cooking on Microfossil Assemblages*. Paper presented at the 2005 **Chacmool Conference**, “Tools of the Trade: Methods, Techniques, and Innovative Approaches in Archaeology.” Calgary, Canada.

2004 **Duncan, N.A.**, R.A. Benfer. *Resolving Contemporaneity in the Peruvian Cotton Preceramic-Initial Period*. Paper presented at the **69th Annual Meeting of the Society for American Archaeology**, Montreal, Canada, March 31-April 4.

2003 **Duncan, N.A.,** R.A. Benfer, B. Ojeda. *The First Field Season at Buena Vista, Chillón Valley, Peru*. Paper presented at the **68th Annual Meeting of the Society for American Archaeology**, Milwaukee, WI.

2003 Collins, S.K., D.M. Pearsall, and **N.A. Duncan.** *Prehistoric Agriculture on the Pacific Coast of Guatemala: Insights from Phytolith Analysis*. Paper presented at the **68th Annual Meeting of the Society for American Archaeology**, Milwaukee, WI.

2003 Benfer, R.A., **N.A. Duncan.** *An Early Fisherman’s House, Lower Chilca Valley, Peru*. Poster presented at the **68th Annual Meeting of the Society for American Archaeology**, Milwaukee, WI.

2000 **Duncan, N.A.** *Test Excavations at Antibal, Peru*. Paper presented at the 28th **Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory**, Fort Wayne, IN.

1999 **Duncan, N.A.** *Archaeological Field Notes as Text*. Paper presented at the **64th Annual Meeting of the Society for American Archaeology**, Chicago, IL. March 25-28.

1995 **Duncan, N.A.** *Bottles in the Basement: An Archaeological Analysis of Nineteenth Century Artifacts at the Medical College of Georgia*. **Presented at the Annual Meeting of the Society for Applied Anthropology**, Albuquerque, NM.

*Invited Conferences Local*

2017 **Duncan**, **N.A.** *Paleoethnobotany: Linking Plants to Peoples in the Past.* Presented in the **Plants Beyond Limits Conference**, University of Central Florida, November 10.

#### Invited Presentations

#### 2014 Integrating Paleoethnobotanical Approaches in the Study of Food. Archaeology and Physical Anthropology Lecture Series, University of California, Santa Cruz. May 21.

#### 2014 Archaeobotany of Preceramic Peru. Stanford Archaeology Center Lunch Club Lecture Series, February 5.

2011 *Planteamiento de metodologías para la Investigación de Remanentes Botánicos en Sitios Arqueolólogicos* Seminario de Paleoetnobotanica. Instituto Nacional de Patrimonio Cultural, Quito, Ecuador, August 4.

2011 *Estudio Paleoetnobotánico en Perú Pre-cerámico.* Seminario de Paleoetnobotanica, Instituto Nacional de Patrimonio Cultural, Quito, Ecuador, August 4.

## Grants and Fellowships

Research Awards

### External Grants: Principal Investigator

**University of Chicago Argonne, LLC / Argonne National Laboratory** Phase II Archaeological Excavation at BR85, Cape Canaveral Air Force Station, Brevard County, Florida, (Co-P.I. with Sarah Barber, UCF) **$156,316** **Credit amount $53,171 (34% credit )** Award dates 8/01/2018-7/31/2020

**National Science Foundation** SBE-RCUK Archaeology Senior Award: Examination of Tropical Approaches to Agriculture (formerly Paleoethnobotany and Landscape in the Southwestern Amazon), (Co-P.I. with John Walker, UCF and Bronwen Whitney, Northumbria University) **$247,640**. Lead Agency Agreement with Research Councils UK: £186,963. **Credit amount $123.313 (50% credit)**. Award dates 1/19/2018-5/31/2020

### **Fulbright Specialists Program Grant** ($9451). Host Institution: National Institute for Cultural Patrimony, Quito, Ecuador. 2011

Teaching Awards

2020 **UCF** **Teaching Incentive Program (TIP) Award** ($5000)

2017 **UCF** **Enhancement and Program Innovation Award, *Incorporating Integrative Learning into the Anthropology Major***($7,500) (Co-Pi with Sarah Barber, Chinyen Chuo, John Schultz, Amanda Groff, Beatriz Reyes-Foster, and Lana Williams).

Other Honors and Awards

2017 UCF College of Sciences Travel Award, $250

2010 School for Advanced Research on the Human Experience, Research Team Participant in Short Seminar *Historical Ecology in the Pre-Columbian Caribbean*

2010 University of Missouri Graduate Student Association Award for Excellence in Teaching, Research and Department/Community Development

## Field Research

#### Fieldwork Experience

2018-Present **Current Research** Llanos de Mojos, Southwestern Bolivia. Funded by the National Science Foundation. Co-Principal Investigator. Sediment coring for microbotanical remains, archaeological survey, and excavation.

2017-Present **Current Research** Cape Canaveral Air Force Station. Funded by Argonne National Laboratory. Co-Principal Investigator. Field director for Cape Canaveral Archaeological Mitigation Project.

2010-Present **Current Research**: Cauca Valley, Colombia. Research on precolumbian strategies for survival in the alluvial plain of the Cauca River. Funded by Fundación de Investigaciones Arqueológicas Nacionales - Colombia (Foundation for Investigations National Archaeology) to Principle Investigator Marianne Schrimpff, Pro-Calima Foundation. Collaborator. Sediment coring for microbotanical remains, archaeological survey.

2014 Inner Mongolia, China. Research on agricultural change and subsistence strategies of early prehistoric farmers with Li Liu, principle investigator. Funded by Stanford University. Field collection of microbotanical residues from archaeological ceramics.

2007 Lambayeque, Peru. Research on comparing modern farmed landscapes of known histories, interviewing farmers, for the potential of interpreting archaeological evidence of farming with Frances Hayashida (UNM). Funded by NSF Archaeology. Collaborator. Archaeo-ethnographic interviews, field sampling, comparative plant collection.

2004-2007 Guayas Province, Ecuador. Research on past landscape and environmental change in the early Holocene with Deborah M. Pearsall, principle investigator. Funded by NSF Archaeology. Survey and sediment coring.

2001-2005 Chillón Valley, Peru. Doctoral dissertation research on early ritual feasting associated with 4000 year old architecture at the Buena Vista site. Field director for two University of Missouri-Columbia field schools, archaeological excavations.

# Teaching

## *Pedagogical Program Development*

2017 **Anthropology Writing Workshop** ­– writing workshop for graduate and undergraduate HIM students.

2015 **Anthropology Writing Workshop**

## *Teaching-Related Professional Development*

2018 **FCTL Summer Conference**. Worked to develop syllabus and materials for internship opportunities in anthropology

2017 **FCTL Winter Conference.** Worked to develop GEP course criteria for ANT2140

2015 **FCTL Summer Conference**. Worked to develop a new curriculum for the revised BA with two tracks.

2015 **Interactive Distributed Learning (IDL 6543).** Participated in the course to learn effective online teaching techniques and strategies.

*Teaching Recognition for Student Research*

2018 “Exploring the Canaveral Inn: History and Archaeology at the Hotel Site (8BR240), Cape Canaveral,” Rebecca Gibbons**. Judges Choice winning poster** at Showcase for Undergraduate Research Excellence

2017 “Old Lighthouse Site at Cape Canaveral Air Force Station, Juliana Snowden, Victoria Priola, and Lucas Pettinati. **Judges Choice winning poster** at Showcase for Undergraduate Research Excellence.

## *Mentoring*

## *Graduate Mentoring*

MA Degree – *Chair*

**Hanna Park** – Anthropology

**Kimberly Batres** – Anthropology (co-Chair)

MA Degree – *Committee Member*

**Danielle Young** - Anthropology, UCF (Chair: John Walker) Spring 2020

**Samuel Martin** - Anthropology, UCF (Chair: John Walker) Spring 2018. *Whetting Their Appetite: A Spatial Relationship Between Flooding and Raised Agricultural Fields in the Llanos de Mojos, Bolivia*

**Samantha Michell** - Anthropology, UCF (Chair: J. Marla Toyne) Spring 2018. *The Cloud Forest Animals: Isotopic Variation of Faunal Remains from Kuelap, Peru.*

## *Undergraduate Honors in the Major Thesis (HIM)*

**Kristin Carlos** –BA Anthropology, UCF. (Chair: Ty Matejows*ki).* 2018

*Modern Crystal and Spiritual Healing Practices in the Western World and their Origins*

**Sarah Grace Davenport** –BA Anthropology, UCF. (Chair: Joanna Mishtal). 2018

*Whose Sustainability? An Examination of Environmental Equity and Sustainability in Practice in Central Florida.*

**Emily Dovydaitis** – BA Anthropology, UCF. (Chair: Rani Vajravelu) 2017.

*Implications of Insufficient Access to Sanitary Water on Medicinal Plant Usage in Rural Nepal.*

## *Showcase of Undergraduate Research Excellence SURE*

2017 **Showcase Winner** – Social Sciences: Old Lighthouse Site at Cape Canaveral Air Force Station

 Juliana Snowden, Victoria Priola, Lucas Pettinati

 Mentor: N. Duncan

2018 **Showcase Winner** – Social Sciences: Exploring the Canaveral Inn: History and Archaeology at the Hotel Site (8BR240), Cape Canaveral

 Rebecca Gibbons, Jordan Falchook, Michael Felice

 Mentor: N. Duncan

2019 Poster: Analytics of Burn’s Site Artifacts

 Benjamin Squitiere, Naomi Paz, Chelsea Rose, Emily Harsy, Cristina Alvarez

 Mentors: N. Duncan and Sarah Barber

## *Undergraduate Courses Taught*

Archaeology and the Rise of Human Culture (ANT 2140), 2015-2020

Ancient Incas (ANT3164), 2017

General Anthropology (ANT 2000), 2017, 2019

Cooperative Education (Field Studies) (ANT4949) 2017, 2018, 2019

Anthropology of Plants and Peoples (ANT 3290) 2016, 2018

Paleoethnobotany (ANT4187) 2020

## *Graduate Courses Taught*

Paleoethnobotany (ANG 5188), 2020

Directed Research (ANG 6971), 2016, 2019, 2020

Independent Study (ANG 6908), 2016

Cooperative Education (Field Studies) (ANT 5949), 2017, 2018, 2019, 2020

# Service

## Service to the Department

2020 – Present Colloquium Committee

2018 – Present Instructor/Lecturer Promotion Committee

2018 – 2019 Graduate Curriculum Committee

2018 – 2019 GEP Assessment Co-coordinator

2016 – Present Department liaison to UCF Libraries

2015 – 2018 Undergraduate Curriculum Committee

## Service to the University

2019 Present COS Recognition and Scholarship Committee

2019 Judge, Showcase of Undergraduate Research Excellence (SURE), April 4.

2018 Judge, Showcase of Undergraduate Research Excellence (SURE), April 15.

2016 Judge, 13th Annual Graduate Research Forum, April 5.

Invited Presentation

2019 *Plants and Landscapes in the mid-Holocene Amazon.* With J. Walker. UCF Department of Anthropology Brown Bag Series.

2015 *Paleoethnobotany and Early Ritual Architecture in Peru*. UCF Department of Biology, November 23.

## Service to the Profession

Editorial Advisory Board Member, *Elements in Environmental Archaeology,* Cambridge University Press

Journal or Chapter Manuscript Peer Reviews

*While at UCF*

2019 (Nov) Article for *Proceedings of the National Academy of Science*

2019 (Oct) Article for *Journal of Archaeological Science*

2019 (Sep) Chapter for Book in One World Archaeology Series, Springer

2019 (May) Article for *Journal of Archaeological Science*

2018 (Jan) Article for *Journal of Archaeological Science*

2018 (May) Article for *Journal of Archaeological Science*

2018 (Jul) Articles for *Journal of Archaeological Science (2)*

2017 (Jul) Article for *Journal of Archaeological Science*

2017 (Dec) Entry for *Encyclopedia of Global Archaeology*

2016 (Dec) Article for *Environmental Archaeology*

2016 (Aug) Article for *Latin American Antiquity*

*Prior to UCF*

2015 Article for *Scientific Reports - Nature*

2015 Article for *Journal of Quaternary Science Reviews*

2015 Article four *Journal of Archaeological Science*

2014-15 Four Articles in *Journal of Archaeological Science*

Fulbright Specialist

2015 Fulbright Specialist Discipline Peer Review Committee Member

Grant Reviewer

Israel Science Foundation, Reviewer, February 2019

Israel Science Foundation, Reviewer, March 2018

## Service to the Community

2018-Present Member of the School Advisory Council, Lake Como Elementary School, Orange County Public Schools

2017 *Teacher for a Day.* Kaley/Lake Como Elementary School. I taught three individual classrooms of first-grade students about archaeology.

2015 Public talk: *Food, Feasting, and Continental Connections in Ancient Peru.* Central Florida Anthropological Society, May 19.

2015 Public talk: *Plants, People and the Past.* Opening Our Doors: Community, Heritage and Archaeology Today. Stanford Archaeology Center, April 25.

2012 Public talk: *Food and Ritual in Ancient Coastal Peru.* Anthropology Lecture Series,North Georgia State College & University, Department of History, Anthropology & Philosophy and the Blue Ridge Archaeology Guild, September 19.

Media Coverage

2019 Space Coast Daily.com. “UCF Researcher: Bolivian Amazonian Swamp Mud Could Unlock Ancient Agriculture Secrets.”

 http://spacecoastdaily.com/2018/12/ucf-researcher-bolivian-amazonian-swamp-mud-could-unlock-ancient-agriculture-secrets/

2019 UCF COS News. “Bolivian Mud Could Be Key To Unlocking Ancient Agriculture.” [https://sciences.ucf.edu/news/bolivian-mud-could-be-key-to-unlocking-ancient-agriculture/](https://sciences.ucf.edu/news/bolivian-mud-could-be-key-to-unlocking-ancient-agriculture/%09)

2007 Smithsonian Magazine. “The New World's Oldest Calendar: Research at a 4,200-year-old temple in Peru yields clues to an ancient people who may have clocked the heavens.”By Anne Bolen.

 <http://www.smithsonianmag.com/science-nature/the-new-worlds-oldest-calendar-152115988/>

2007 Science News for Students. “Unearthing Ancient Astronomy: Researchers discover that ancient Peruvians were tracking the skies 4,000 years ago.” By Julie Rehmeyer

 <https://www.sciencenewsforstudents.org/article/unearthing-ancient-astronomy>

2006 National Geographic News. “Oldest Observatory in Americas Discovered in Peru.” By Richard Lovett

 <http://news.nationalgeographic.com/news/2006/05/observatory-peru.html>

Languages

English – Native

Spanish – Fluent

# Professional Memberships

Society for American Archaeology

Register of Professional Archaeologists

International Phytolith Society

Sigma Xi

Lambda Alpha National Anthropology Honor Society