

**CURRICULUM VITAE
LORENA MADRIGAL**

Department of Anthropology
University of South Florida. Tampa, FL 33620
madrigan@usf.edu

EDUCATION

University of Kansas	1985-1988	Ph.D.
University of Cincinnati	1984-1985	M.A.
University of Utah	1982-1984	B.S.
University of Costa Rica	1980-1982	

Dissertation title: Hemoglobin genotype and fertility in a malarial environment: Limón, Costa Rica. Date of completion: Summer, 1988. Available at: KU ScholarWorks at <http://hdl.handle.net/1808/7882>.

Attendance to the Short Course in Experimental and Mammalian Genetics. Presented by The Jackson Laboratory and The Johns Hopkins University School of Medicine. 1991

PROFESSIONAL EXPERIENCE

<u>Full Professor</u>	2005-present
Department of Anthropology	
University of South Florida	

<u>Associate Professor</u>	1993-2005
Department of Anthropology	
University of South Florida	

<u>Visiting Full Professor</u>	Summer 2003
Department of Anthropology	Summer 2001
University of Costa Rica	Summer 2000

<u>Assistant Professor</u>	1990-1993
Department of Anthropology	
University of South Florida	

PROFESSIONAL EXPERIENCE (Cont.)

Visiting Assistant Professor 1988-1990
Department of Anthropology
University of South Florida

Graduate Teaching Assistant 1985-1987
Department of Anthropology
University of Kansas

Graduate Teaching Assistant 1984-1985
Department of Anthropology
University of Cincinnati

BOOK

Madrigal L. Human Biology of Afro-Caribbean populations. 2006. Cambridge University Press. Reprinted in 2011.

EDITED BOOK

Madrigal, L. and González-José. 2016. Introducción a la Antropología Biológica. Asociación Latinoamericana de Antropología Biológica. 678 págs. ISBN: 978-987-33-9562-8.
http://scholarcommons.usf.edu/islac_alab_antropologia/1/

TEXTBOOK

Madrigal, L. Statistics for anthropology. 2012. Second edition. Cambridge University Press.

Madrigal L. 1998. Statistics for anthropology. Cambridge University Press.

ARTICLES

H Huang, KBH Clancy, C Burhance, Y Zhu and L Madrigal. 2015. Women who deliver twins are more likely to smoke and have high frequencies of specific SNPs: results from a sample of African-American women who delivered pre-term, low birth weight babies.
<http://onlinelibrary.wiley.com/enhanced/doi/10.1002/ajhb.22723/>.

ARTICLES (cont.)

Loredana Castrì (posthumously), Donata Luiselli, Davide Pettener, Mauricio Melendez-Obando, Ramón Villegas-Palma (posthumously), Ramiro Barrantes, Henrieta Raventos, Reynaldo Pereira, Lorena Madrigal. 2014. A Mitochondrial haplogroup is associated with decreased longevity in a historic New World population. *Human Biology*. Early view: http://digitalcommons.wayne.edu/humbiol_preprints/59/

Madrigal L., Loredana Castrì (Posthumously) , Mauricio Melendez-Obando, Ramon Villegas-Palma, Ramiro Barrantes, Henrieta Raventos, Reynaldo Pereira, Donata Luiselli, Davide Pettener, Guido Barbujani. 2012. High mitochondrial mutation rates estimated from deep-rooting Costa Rican pedigrees. *American Journal of Physical Anthropology*. 148 (3): 327–333. DOI: 10.1002/ajpa.22052

Castrì, L., Madrigal, L.; Melendez-Obando, M, Villegas-Palma, R, Barrantes, R, Raventos, H, Pereira, R, Luiselli, D, Pettener, D_2011. Mitochondrial Polymorphisms Associated with differential longevity do not impact lifetime-reproductive success. *American Journal of Human Biology* 23(2): 225-227. DOI: 10.1002/ajhb.21112

Madrigal, L; Jeffrey Brady, Michelle Raxter, Ernesto Ruiz, Flory Otárola and Mwenza Blell. 2011. Obesity, hypertension and migration: A meta analysis of populations of the South Asian diaspora. *Human Biology*. 83(1): 71-86. <http://digitalcommons.wayne.edu/humbiol/vol83/iss1/5>

Castrì, L , Mauricio Melendez-Obando, Ramon Villegas-Palma, Ramiro Barrantes, Jetty Raventos, Reynaldo Pereira, Donata Luiselli, Davide Pettener, Lorena Madrigal. 2009. Mitochondrial polymorphisms are associated both with increased and decreased longevity. *Human Heredity*. 67 (3): 147-153. DOI: 10.1159/000181152

Madrigal, L. and Melendez-Obando, M. Grandmothers' longevity negatively affects daughters' fertility. 2008. *American Journal of Physical Anthropology*. 136:223–229. DOI: 10.1002/ajpa.20798

Madrigal L and Kelly W. 2007a. Human skin color sexual dimorphism: A test of the sexual selection hypothesis. Reply. *American Journal of Physical Anthropology*. *American Journal of Physical Anthropology* 133 (1): 780-781 MAY 2007. DOI: 10.1002/ajpa.20582

Castrì , L; Flory Otárola, Mwenza Blell, Ramiro Barrantes, Donata Luiselli, Davide Pettener, Ernesto Ruiz and Lorena Madrigal. 2007b. Indentured migration and differential gender gene flow: the origin and evolution of the East-Indian community of Limón, Costa Rica. *American Journal of Physical Anthropology* 109 (2): 330-337 JUN 2007. DOI: 10.1002/ajpa.20652

Madrigal L, Ware B, Hagen E, Blell M, and Otárola F. June, 2007c. The East-Indian diaspora in Costa Rica: Inbreeding avoidance, marriage patterns and cultural survival. *American Anthropologist*. 109 (2): 330-337. DOI: 10.1525/AA.2007.109.2.330

ARTICLES (cont.)

Madrigal L. and Kelly W. 2007d. Human skin color sexual dimorphism: A test of the sexual selection hypothesis. *American Journal of Physical Anthropology*. 132:470-482. DOI: 10.1002/ajpa.20453.

Madrigal L and T. Koertvelyessy. 2003a. Epidemic cycles in agricultural populations: A cross-cultural study. *Human Biology*. 75(3):345-354. <http://digitalcommons.wayne.edu/humbiol/vol75/iss3/3>

Madrigal L, B. Ware and M. Melendez. 2003b. Widow and widower remarriage in a rural 19th Century Costa Rican population: a cross-cultural discussion. *American Journal of Physical Anthropology*. 122(4):355-360. DOI: 10.1002/ajpa.10282

Madrigal L, J. Relethford, and Michael H. Crawford. 2003c. Heritability and anthropometric influences on human fertility: A path analysis. *American Journal of Physical Anthropology*. 15:16-22. DOI: 10.1002/ajhb.10109.

Madrigal L, B. Ware, R. Miller, G. Saenz, M. Chavez and D. Dykes. 2001a. Ethnicity, gene flow and population subdivision in Limón, Costa Rica. *American Journal of Physical Anthropology*. 114:99-108

Madrigal L, G. Saenz, M. Chavez, and D. Dykes. 2001b. The frequency of twinning in two Costa Rican ethnic groups: An update. *American Journal of Physical Anthropology*. 13:220-226.

Madrigal L. and B. Ware. 1999. Mating pattern and population structure in Escazu, Costa Rica: a study using marriage records. *Human Biology* 71: 963-975.

Madrigal L. and B. Ware. 1997. Inbreeding in Escazú, Costa Rica (1800-1840, 1850-1899). Isonymy and ecclesiastical dispensations. *Human Biology*. 69:703-714.

Madrigal L, 1997. Twinning trend in Escazu, Costa Rica: 1851-1901. *Human Biology*. 69:269-276.

Madrigal L. 1996. The sex ratio in Escazú, Costa Rica: 1851-1901. *Human Biology*. 68: 427-436.

Madrigal L. 1995. Differential fertility of mothers of twins and mothers of singletons: a study in Limón, Costa Rica. *Human Biology*. 67: 779-787.

Madrigal L. 1994a. Twinning rates in admixed Costa Rican populations. *American Journal of Human Biology* 6:215-218.

Madrigal L. 1994b. Mortality seasonality in Escazú, Costa Rica: 1851-1921. *Human Biology*. 66:433-452

ARTICLES (cont.)

Madrigal L. 1993. Lack of birth seasonality in an agricultural 19th Century population: Escazú, Costa Rica. *Human Biology*. 65:255-271.

Baer R and Madrigal L. 1993 Intra-household allocation of resources in larger and smaller Mexican households. *Social Science and Medicine*. 36:305-310.

Madrigal L. 1992. Differential sex mortality in a 19th Century rural population: Escazú, Costa Rica. *Human Biology* 64:199-213.

Madrigal L. 1991a. The reliability of recalled estimates of menarcheal age in a sample of older women. *American Journal of Human Biology* 3:105-110.

Madrigal L. 1991b. Menarcheal age and spontaneous abortion: further evidence of a connection. *American Journal of Human Biology* 3:625-628.

Madrigal L., G. Saenz and M. Chavez. 1990. Deficiencia de la dehidrogenasa de la glucosa-6-fosfato: su frecuencia en individuos Hb AS y Hb AA de la población negra de Limón. *Sangre* 35: 413-414 (letter).

Madrigal L. 1989. Hemoglobin genotype, fertility and the malaria hypothesis. *Human Biology* 61(3):311-325.

BOOK CHAPTERS

Madrigal L., Monica Batistapau, Loredana Castri, Flory Otárola, Mwenza Blell, Ernesto Ruiz, Ramiro Barrantes, Donata Luiselli, Davide Pettener. 2012. Indentured migration, gene flow and the formation of the Indo-Costa Rican population. In: *Human migration*. Edited by Michael Crawford and Benjamin Campbell. Cambridge University Press.

Madrigal L. and J. Willoughby. 2010. Ongoing Evolution in Humans. In: *A Companion to Biological Anthropology*. Clark Spencer Larsen (Editor). Wiley-Blackwell: 222-242.

Madrigal L., Mwenza Blell, Ernesto Ruiz, Flory Otárola. 2009. The Slavery Hypothesis: An Evaluation of a Genetic-Deterministic Explanation for Hypertension Prevalence Rate (HPR) Inequalities. In: *Health, Risk, And Adversity: A Contextual View From Biological Anthropology*. Edited by A. Fuentes and C. Panter-Brick. Berghahn Books. London: 236-255.

Madrigal L. and Barbujani G. 2007. Partitioning of genetic variation in human populations and the concept of race. In: *Anthropological Genetics: Theory, Methods And Applications*. Edited by M.H. Crawford. Cambridge University Press: 17-37.

BOOK CHAPTERS (cont.)

Madrigal L. 2003. The use of archives in the study of microevolution: The case of Escazú, Costa Rica. In: *Human Biologists in the archives*. Edited by A. Herring and A. Swedlund. Cambridge University Press: 11-31.

BOOK REVIEWS

Human Evolutionary Biology. 2010. Edited by Michael P. Muehlenbein. *American Journal of Physical Anthropology*. 2012. 148: 655–656. doi: 10.1002/ajpa.22098

Skin. A natural history. 2006. By Nina G. Jablonski. University of California Press. Berkeley. *American Journal of Physical Anthropology*. 2007.133: 1166

Human population dynamics. Cross-disciplinary perspectives. 2003. Edited by Helen Macbeth and Paul Collinson. *American Journal of Physical Anthropology*. 15 (4) 594-595.

What it means to be 98% chimpanzee. 2002. Jonathan Marks. *American Journal of Human Genetics*. 71:1000-1001. 2002.

Biology of Plagues: Evidence from Historical Populations. 2002. S. Scott & C. Duncan. *Human Biology*: 74:731-732.

Human Biology. An evolutionary and biocultural perspective. 2001. Edited by S. Stinson et al. Wiley-Liss. *Human Biology*, 74:626-627.

Adaptation to malaria: the interaction of biology and culture. Edited by Lawrence S. Greene and Maria Enrica Danubio. Amsterdam: Gordon and Breach Publishers, c1997. *Human Biology*. 2001. 72:724.

Sickle Cell Disease. By Graham R. Serjeant. Second edition. Oxford Medical Publications, New York, 1992. *Human Biology*. 1994. 66: 359-360.

Symbiogenesis: A macro-mechanism of evolution. By Werner Schwemmler. Berlin and Hawthorne, NY: Water de Gruyter, 1989. *Human Biology* 1990. 62:311-313.

CONFERENCE PAPERS

Huang, Hong; Clancy, Kathryn B. H.; Zhu, Yiliang; et al. Women who deliver twins are more likely to smoke and have high frequencies of specific SNPs: results from a sample of African-American women who delivered pre-term, low birth weight babies. 84th Annual Meeting of the American-Association-of-Physical-Anthropologists Location: St Louis, MO Date: MAR 25-28, 2015

Lorena Madrigal, Kathryn BH Clancy , Hong Huang, Yiliang Zhu, Chrystal Burhance, Factors associated with spontaneous multiple pregnancies in a sample of women who delivered pre-term, low birth weight babies. Presented at the 82nd meeting of the AAPA. 2014.

Flansburg, Carroll N.; Stone, Anne; Godfrey, Dave; et al. Is sickle-cell trait as benign as is usually assumed? 82nd Annual Meeting of the American-Association-of-Physical-Anthropologists Location: Knoxville, TN APR 09-13, 2013

Madrigal Lorena, Guido Barbujani, Loredana Castri (Posthumously) , Mauricio Melendez-Obando, Ramon Villegas-Palma, Ramiro Barrantes, Henrieta Raventos, Reynaldo Pereira, Donata Luiselli, Davide Pettener, Juan Pablo Arroryo, David Godfrey, Carroll Flansburg. High mitochondrial mutation rates estimated from deep-rooting Costa Rican pedigrees. Presented at the 81st meeting of the AAPA. 2012.

Rivara A. and L Madrigal. 2011. Ethnicity does not affect reproductive outcomes in Limon, Costa Rica. Presented at the 80th meeting of the AAPA.

Brady, J and Madrigal L Gender, BMI, and migration: A meta-analysis of populations of the East-Asian diaspora. 2010 Presented at the 79th meeting of the AAPA. Albuquerque, New Mexico.

Madrigal L, Melendez-Obando M. And R. Villegas-Palma. 2009. Changes in women's fertility can be tied to their population's demographic processes. Presented at the 78th meeting of the AAPA. Chicago, Illinois.

Madrigal L., E. Ruiz, M. Blell and B Danforth. 2008. Which anthropometric measures best predict body fat percent measured by electrical bio-impedance? Presented at the 77th meeting of the AAPA. Columbus, Ohio.

Madrigal L., M.H. Raxter, E. Ruiz, F. Otarola and M. Blell. 2007. Migration, urbanization, BMI and the Indian Diaspora: Obesity in an Adult East Indian Community of Limon, Costa Rica. Presented at the 76th meeting of the AAPA. Philadelphia, Pennsylvania.

Madrigal L. Ramiro Barrantes, Mwenza Blell, Loredana Castri, Donata Luiselli, Davide Pettener, Ernesto Ruiz. 2006a. A genetic analysis of an Indo-Costa Rican population. Presented at the 75th meeting of the AAPA. Anchorage, Alaska.

CONFERENCE PAPERS (cont.)

Madrigal L, Otarola F, Ware B, Blell, M and Ruiz E. 2006b. Inbreeding coefficients in an Indo-Costa Rican population. Presented at the 74th meeting of the AAPA. Anchorage, Alaska.

Madrigal L, Ramiro Barrantes, Mwenza Blell, Loredana Castri, Donata Luiselli, Davide Pettener, Ernesto Ruiz. 2005a. Preliminary results on a genetic analysis of an Indo-Costa Rican population. Presented at the Italian Anthropological Congress.

Madrigal, L. 2005b Las bases genéticas de la longevidad y la hipótesis de las abuelas. Key note speech. National Meetings of the Asociación de Antropología Biológica de la República Argentina. Córdoba, Argentina.

Madrigal, L. 2005c. La demografía histórica en el estudio de la micro evolución. National Meetings of the Asociación de Antropología Biológica de la República Argentina. Córdoba, Argentina.

Madrigal L, Meléndez-Obando M, Villegas-Palma R., E. Ruiz and J. Taylor. 2005d. A test of the Grandmother Hypothesis using genealogical data in Costa Rica. Presented at the 74th meeting of the AAPA. Milwaukee, Wisconsin.

Madrigal L. 2004a. Introduction to the symposium. Wiley-Liss Symposium: Human Biology and Globalization in Latin America. Symposium organized by Madrigal L and D. Himmelgreen.

Kenney E., Madrigal L. 2004b. Obesity in East-Indian and African derived groups in Costa Rica. Presented at the 73rd meeting of the AAPA. Tampa, Florida.

Madrigal L., F. Otarola, M. Bell, E. Ruiz. 2004c. The Culís of Costa Rica: An initial health assessment of an East-Indian-derived group in Costa Rica. Presented at the 73rd meeting of the AAPA. Tampa, Florida.

Wetherington H.B., J. Garey, Madrigal L. 2004d. Mitochondrial DNA analysis for the study of variation and determination of geographic identity of indigenous human skeletal remains. To be presented at the 73rd meeting of the AAPA. Tampa, Florida.

Madrigal L., A. Ritzheimer, M. Blell, A. Justice. 2003. The portrayal of human bone-marrow variation by the media: An important public role for human biologists. Presented at the Human Biology Association. Tempe, Arizona.

Madrigal L., B. Ware. 2003. A Cross-Cultural Study Of Consanguinity Dispensations. Anthropology Department, University of South Florida. Presented at the 72nd meeting of the AAPA. Tempe, Arizona.

CONFERENCE PAPERS (cont.)

Madrigal L., T. Koertvelyessy, B. Ware, T. Cuevas. 2002. Cyclical and non-cyclical mortality in two Hungarian villages. Presented at the 71st meeting of the AAPA. Buffalo, New York.

Madrigal L, B. Ware. 2001. The pattern of epidemics in Escazú, Costa Rica. Presented at the 70th meeting of the AAPA. Kansas City, Missouri.

Madrigal L, B. Ware and R. Miller. 2000. Marriage patterns, admixture estimates and Fst statistics in two ethnic groups in Limón, Costa Rica. Presented at the 69th meeting of the AAPA. San Antonio, Texas.

Madrigal L. 1999. The use of archives in the study of microevolution: the case of Escazú, Costa Rica. Presented at the 68th meeting of the AAPA. Columbus, Ohio.

Madrigal L. and B. Ware. 1998. Ethnicity and gene flow in Limon, Costa Rica. Presented at the 67th meeting of the AAPA. Salt Lake City, Utah.

Madrigal L. and B. Ware. 1997a. Mating Structure in Escazu, Costa Rica: 1800-1840, 18510-1900. Presented at the conference "Is Human Evolution a closed chapter?" Held by the Australasian Society for Human Biology and IUAES commission of Human Ecology. Adelaide, Australia.

Madrigal L. and B. Ware. 1997b. The evolution of surnames in Escazú, Costa Rica. Presented at the 66th meeting of the AAPA. St. Louis, Missouri.

Madrigal L. and B. Ware. 1996. An Isonymy study of inbreeding in Escazú, Costa Rica. Presented at the 65th meeting of the AAPA. Durham, NC.

Madrigal L. 1996. Un estudio de la mortalidad debido a epidemias en Escazú, Costa Rica. Presented at the Biological Anthropology Congress. Havana, Cuba.

Madrigal L. and B. Ware. 1995. The distribution of human variation. Presented at the 59th annual meeting of the Florida Academy of Sciences. Part of the symposium "What does science say about human variation?"

Madrigal L. 1995. The sex ratio in Escazú, Costa Rica. Presented at the 64th meeting of the AAPA. Oakland, California.

Madrigal L. 1994. Reproductive biology differences between mothers of twins and mothers of singletons. Presented at the 63rd meeting of the AAPA. Denver, Colorado.

Madrigal L. 1993a. Twinning trend in Escazú, Costa Rica: 1851-1901. Presented at the 13th International Congress of Anthropological and Ethnological Sciences. Ciudad Mexico, México.

CONFERENCE PAPERS (cont.)

Madrigal L. 1993b. Twinning rates in Costa Rican populations of African and Hispanic ancestry. Presented at the 62nd meeting of the AAPA. Toronto, Canada.

Madrigal L. 1992. Lack of birth seasonality in an agricultural 19th Century population: Escazú, Costa Rica. Presented at the 17th annual meeting of the Human Biology Council. Las Vegas, Nevada.

Madrigal L. 1991. Differential sex mortality in an 19th Century rural population: Escazú, Costa Rica. Presented at the 60th annual meeting of the AAPA. Milwaukee, Wisconsin.

Madrigal L., G. Saenz and M. Chavez. 1990. Frequency of G6PD deficiency in Hb AA and Hb AS individuals from Limón, Costa Rica. Presented at the 59th annual meeting of the AAPA. Miami, Florida.

Madrigal L. 1989. Menarcheal age and fetal wastage: further evidence of an association. Presented at the 58th annual meeting of the AAPA. San Diego, California.

Madrigal L. 1988. Hemoglobin genotype and fertility in a malarial environment: Limón, Costa Rica. Presented at the 57th annual meeting of the AAPA. Missouri.

Madrigal L. 1987. A mortality time series analysis: Escazú, Costa Rica, 1851-1921. Presented at the 56th annual meetings of the AAPA. New York City, New York.

Perzigian A. and Madrigal L. 1986. Odontometric distance: Comparison of the permanent and deciduous dentition. Presented at the 55th annual meetings of the AAPA. Albuquerque, New México.

Perzigian A and Madrigal L. 1986. Peopling of the Americas: an odontometric perspective. Presented at the World Archaeological Congress. Southampton, England.

Madrigal L. 1985. Biological Distances between 20 New World populations. Presented at the annual meetings of the Central States Anthropological Society. Kentucky.

GRANTS

Funds to travel to India for research project. CAS.USF. 2015-2016.	\$1,500
Parasitic infections and reproductive health in Tanzania. USF creative scholarship grant. 2015	\$9757
Training graduate student in malacological and clinical methods. Fall 2013 College of Arts and Sciences Internal Awards Review Committee.	\$1,500
The NCAA Graduate Student Research Grant (with graduate student Carroll Flansburg)	\$7,500
International Faculty Travel Award (2012)	\$2,500
University of South Florida CAS conference coordination award (2007)	\$750
Patel Center Travel Award (2007)	\$1,000
International Faculty Travel Award (2006)	\$2,500
International Faculty Travel Award (2005)	\$2,500
Grant in support of the AAPA conference held in Tampa. USF's Provost Office. (2004)	\$1,500
Grant in support of the AAPA conference held in Tampa. USF's CAS. (2004)	\$1,000
The inheritance of unusual longevity: a diachronic study. The NIA pilot research grant program (R01). (2003)	\$72,500
Globalization and disease: a study in an African and an East-Indian derived settlement in Costa Rica. The USF globalization center. (2003)	\$20,000
The origin of Afro-Costa Rican populations. Granted the status of "Associated Project" by the UNESCO Slave Route Project. This association enables the project to benefit from the intellectual and logistical support (though not financial) of UNESCO. (1997).	
International Faculty Travel Award. USF. (1996)	\$2,000
Inbreeding and isonymy in a 19th century rural population: Escazú, Costa Rica. Research and Creative Scholarship Program of the University of South Florida. (1995)	\$7,000
Support for attendance to a short course in experimental and mammalian genetics.	

GRANTS (cont.)

College of Arts and Sciences. , USF	\$2,000
P.E.O International Sisterhood Scholarship. (1987-1988)	\$2350
Summer Fellowship. University of Kansas. (1987)	\$1,000
The Pierre Stouse Memorial Fellowship for Latin American Research. KU (1987)	\$600
Sigma Xi Grant-in-Aid. Spring, (1987)	\$500

INVITED LECTURES

A closer look at Jane Goodall. A panel discussion about the life and work of Jane Goodall. An Honors College event hosted by the Honors Dean. University of South Florida. Fall, 2014.

Homo floresiensis, H. heidelbergensis, Neandertals, Denisovans, oh my!! Darwin Day Celebration at the University of South Florida. 2014. Co-sponsored by the Hillsborough County Public Schools.

A tale of three continents: How African Slavery and East-Indian Indentured Migration Helped Shape the Human Population of Limón, Costa Rica. Lecture given at the University of Kansas, Co-sponsored by: Center for Latin American & Caribbean Studies, Kansas African Studies Center, Department of African & African American Studies and Department of Anthropology

Key note speaker. Latin American Association of Biological Anthropologists. November, 2012, San Jose, Costa Rica.

Human variation and evolution: A cycle of lectures given to Department of Anthropology, University of Cordoba. Cordoba, Argentina. Summer, 2012.

H. floresiensis, *A. Sediba*, Denisovans, oh my!! What is New in Human Evolution. A teacher workshop, part of the Darwin-day celebration. Sponsored by USF and the Hillsborough County School Board. February, 2012.

Micro-evolution in Costa Rica.: A cycle of lectures given to the Mexican School of Anthropology and History. Mexico City, Mexico. December 2011.

An Introduction to biological anthropology. Lectures as part of the Great American Teach-In. Williams Middle School. Fall, 2011.

The evolution of human post-menopausal longevity. Invited lecture given at the University of South Florida. Department of Integrative Biology. Fall, 2011.

INVITED LECTURES (cont.)

What's love have to do with it? A Valentine's Day version of Darwin's day. Lecture hosted by the anthropology club at USF. 2011.

Charles Darwin. The free thinkers of USF's celebration of Charles Darwin's birthday. February, 2010.

Darwin, modern evolutionary theory and human behavior. Invited lecture given at the University of South Florida. Department of Psychology. November, 2009.

Darwin: His Life, His Theory, and Enduring Contribution. Invited lecture given to the Tampa Bay Fossil Club. October, 2009.

El origen y la evolución de la población Indo-Limonense. Given at the University of Costa Rica, Department of Anthropology lecture series. June, 2009.

Human evolution for elementary school students. Invited lecture. Pizzo Elementary School. Tampa, FL. April, 2009.

Evolution and the Human Body. Part of MOSI (Museum of Science and Industry. Tampa) special events. March 2009.

Darwin: His Life, His Theory, and Enduring Contribution. Lecture given to celebrate the Year of Science at Brooker Creek Preserve Environmental Education Center. Tarpon Springs, FL. February, 2009.

Darwin's contribution to present society. The free thinkers of USF's celebration of Charles Darwin's birthday. February, 2009.

Applying biocultural outcomes. Presented at: Advancing biocultural perspectives in physical anthropology. A conference organized by Agustín Fuentes and Thomas McDade. University of Notre Dame. February, 2007.

Key note speaker. Latin American Association of Biological Anthropologists. October, 2006. Ouro Preto, Brazil.

Key note speaker. Argentinean Biological Anthropology Conference. September, 2005. Cordoba, Argentina.

Department of Anthropology. University of Bologna. Spring, 2005.

Department of Anthropology. University of Pennsylvania. Spring, 2004.

INVITED LECTURES (cont.)

Round table on excellence in teaching. University of South Florida. Spring 2001.

Department of Biology, University of Ferrara. Fall 2000, Spring 2003, Spring 2008.

Visiting Scholar Lecture Cycle. Department of Anthropology. University of Tennessee. Fall 2000.

The 20th scientific session of the Paleopathology Club, held in conjunction with the United States and Canadian Academy of Pathology. March, 1997.

Department of Anthropology. Universidad de Costa Rica. Summer, 1996.

Department of Biology, the 1995-1996 colloquium series. University of South Florida.

FIELD EXPERIENCE

Summer, 2005. Westfalia Costa Rica. Returned to the field to work with the Indo-Costa Rican group and collect Y-chromosome samples.

Summer, 2004. Atenas, Costa Rica. Collection of blood samples and genealogies.

Summer, 2003. Westfalia and Cieneguita, Costa Rica. Work with the Culi and Afro-Limonense communities. Collected hair samples, skin color, and anthropometrics.

Summer, 1986-1995. Escazú, Costa Rica. Demographic data from Church records.

Summer, 1987. Limón, Costa Rica. Blood samples fertility histories collected from 394 females.

SERVICE TO THE FIELD

AAA executive board member (Biological anthropology seat). 2014-2017.

Member, advisory panel to the AAA's application to National Endowment for the Humanities through its "Humanities in the Public Square" program.

Editorial Committee (L. Madrigal, R. Gonzalez-Jose, Victor Acuna), Latin-American Association of Biological Anthropology, ALAB. Duties: Editing of a Biological Anthropology textbook sponsored by the association, to be made available free of charge, online. Completion date: June, 2015.

Past-President. AAPA. 2013-2014.

American Anthropological Association and Smithsonian Institute. Ad Hoc Committee on Public Education Initiatives on Immigration and Migration. 2012-?

SERVICE TO THE FIELD (Cont.)

Member, organizing committee for the 2012 Latin American Conference of Biological Anthropology. 2012.

President, AAPA. 2011-2013.

President-elect, AAPA. 2010-2011.

Vice-president and Program Chair. AAPA (2008-2010). Organizer, "Theories and methods in applied biocultural anthropology". A conference held at the University of South Florida. 10/2007.

Editorial Board, *American Journal of Human Biology* (2008-2015).

Chair. Committee for the search for the new editor of the American Association of Physical Anthropologists Yearbook. 2006

Chair, student prize committee. The AAPA, 2006-2007.

Member of the executive board, AAPA. 2004-2007

Editorial Board, *American Journal of Physical Anthropology*. 2002-2008

Secretary Treasurer. American Association of Anthropological Genetics. 2002-2006

Chair, Local Arrangements Committee. AAPA 2004 meetings.

Member, Local Arrangements Committee. HBA 2004 meetings.

Member, the Human Biology Association Publications Committee. 2004-2007

Member, student prize committee. The AAPA, 1999-2000.

Book-review editor, *Human Biology* 1997-2001

Editorial Board, *American Anthropologist*. 2001-2004

Editorial Board, *Human Biology*. 1994-1997. 2001-2011.

OTHER SERVICE

Member of search committees at the department of Anthropology, University of South Florida (2014, 2000, and several others).

Member and Chair of the CAS committee for Faculty Development. 2015-2016 and previous years.

Chair and member of numerous search committees at the Department of Anthropology. USF.

Member of the Honors and Awards Committee, Faculty Development Committee. College of Arts and Sciences and other University of South Florida Committees.

Member of the Provost Search Committee

Reviewer for numerous journals besides those of whose editorial boards I have been a member, such as *the Annals of Human Biology*, *The American Journal of Human Genetics*, *the Journal of Molecular Evolution*, *Mitochondrion*, *Human Heredity*, etc.

Reviewer for the NSF program in biological anthropology.

Chair and member of the Faculty Advisory Committee at the Department of Anthropology. University of South Florida. The FAC is the faculty committee that advises the Chair on all matters of policy.

Advisor to the Anthropology Club. 1990-2005

MEMBERSHIPS

Member: American Association of Physical Anthropologists

Member: Human Biology Association.

Member: American Anthropological Association.

TEACHING AWARDS, HONORS

Recipient of the Diamond Award. Conferred by the Delta Tau Lambda Sorority. October 2013.

American Association for the Advancement of Science Fellow. 2012.

Key note speaker. The USF anthropology undergraduate colloquium. 2005.

Voted one of the six most popular professors at USF by graduating seniors. Spring, 2004. Tampa Tribune, Monday, April 5th, 2004.

Faculty Role Model Mentor of the Year. USF McNair Scholars Program. 2003.

TEACHING AWARDS, HONORS (cont.)

One of three nominees of USF for the CASE/Carnegie Professor of the year awards. 2001, 2002

Outstanding undergraduate teaching award University of South Florida. 1999.

State University System-wide *Teaching Incentive Award*, University of South Florida 1994.

MEDIA COVERAGE

<http://www.sciencedaily.com/releases/2015/04/150417103741.htm>

<http://www.sciencenewsline.com/summary/2015041723490029.html>

<http://www.bulletinstandard.org/science/smoking-and-mothers-genetics-combine-to-enhance-likelihood-of-twins-h814.html>

<http://healtheducation.org/2015/04/17/smoking-and-mothers-genetics-combine-to-increase-likelihood-of-twins/>

<http://www.amazonherald.com/news/smoking-and-mothers-genetics-combine-to-increase-likelihood-of-twins>

<http://www.bioportfolio.com/news/article/2300397/Smoking-and-mothers-genetics-combine-to-increase-likelihood-of-twins.html>

<http://www.twinsfoundation.com/twinsblog/2015/04/new-research-finds-smoking-and-mothers-genetics-combine-to-increase-medical-xpress-4/>

<http://www.hotelanna.biz/?p=49376>

<http://cloudtales.tumblr.com/post/116671515009/smoking-and-mothers-genetics-combine-to-increase>

https://tagloom.com/post/PA944rS_3yJl

<http://netzlesen.de/science-blog-smoking-and-mothers-genetics-combine-to-increase-likelihood-of-twins/>

<http://snewsi.com/id/15212764067/New-research-finds-smoking-and-mothers-genetics-combine-to-increase-likelihood-of-twins>

<http://www.noozilla.com/news/7102028/>

<http://www.medicalnewstoday.com/releases/292643.php>

http://www.elfinancierocr.com/ef_archivo/2012/junio/17/tecnologia3199044.html

<http://ticotal.cr/talento-destacado/talentos-destacados-anteriores/lorena-madrigal-diaz-phd.html>

<http://news.sciencemag.org/sciencenow/2009/10/28-01.html>

http://www.ucr.ac.cr/mostrar_noticia.php?ID=2334

<http://www.sciam.com/article.cfm?id=the-origin-of-menopause>

MEDIA COVERAGE (Cont.)

http://www.digitaljournal.com/article/251668/The_Grandmother_Hypothesis

<http://media.www.usforacle.com/media/storage/paper880/news/2008/03/24/News/Long-Life.Linked.To.Fewer.Grandkids-3279943.shtml>

<http://www.newscientist.com/channel/being-human/dn13468-longlived-grannies-may-have-fewer-grandchildren.html>

<http://dienekes.blogspot.com/2008/03/grandmothers-longevity-negatively.html>

<http://www.topnews.in/health/long-lived-grannies-may-have-fewer-grandkids-21489>

<http://www.medworm.com/rss/search.php?qu=American+Journal+of+Physical+Anthropology&t=American+Journal+of+Physical+Anthropology&s=Search&f=source>

http://cwmccabe.newsvine.com/_news/2008/03/18/1374637-long-lived-grannies-may-have-fewer-grandchildren

<http://news.krify.com/Technology/35590.html>

<http://www.seniorworldchronicle.com/2008/03/uk-long-lived-grannies-may-have-fewer.html>

http://timesofindia.indiatimes.com/Long-lived_grannies_had_few_grandkids/articleshow/2868320.cms

<http://www2.tbo.com/content/2008/may/08/me-evolution-darwin-day-big-problem/>

<http://www2.tbo.com/content/2008/may/11/me-darwinners-and-darlosers-stupidity-is-1-thing-t/>

<http://news.sciencemag.org/scienceinsider/2013/04/survey-finds-sexual-harrassment-.html>

<http://www.momsteam.com/sickle-cell-trait/genetic-mutation-may-explain-why-some-sickle-cell-trait-athletes-at-greater-risk-exertional-sickling>

TEACHING EXPERIENCE**UNDERGRADUATE:**

Biological Anthropology, Department of Anthropology. University of South Florida

Introducción a la Antropología Biológica. (UCR)

Human Variation. Department of Anthropology. University of South Florida

Human Evolution. Department of Anthropology. University of South Florida

Honors seminar. Department of Anthropology. University of South Florida

Human Biology of Caribbean Groups. Department of Anthropology. University of South Florida.

GRADUATE

Human Variation. Department of Anthropology. University of South Florida

Evolutionary theory in Biological Anthropology. Department of Anthropology. University of South Florida

Seminar in Physical Anthropology. Department of Anthropology. University of South Florida

Quantitative Methods. Department of Anthropology. University of South Florida.

Advanced Quantitative Methods. Department of Anthropology. University of South Florida