

Curriculum Vitae: David Andrew Merriwether

Current Address 104 Rockwell Rd, Vestal, NY 13850,
Office: 217 Science I Bldg Office Phone: 607-777-3309
Lab: 215 Science IV Bldg. Lab Phone: 607-777-6707, Email: Andym@bingamton.edu

Degrees Awarded:

B.A. Medical Anthropology, Pennsylvania State University, May 1988
B.S. Biology (Genetics Option), Pennsylvania State University, May 1988
M.S. Genetics, Pennsylvania State University, December 1989
Ph.D. Human Genetics, University of Pittsburgh, August 1993

Employment Experience:

Binghamton University (SUNY), Binghamton, NY
Associate Professor of Anthropology. 6/02-present
Associate Professor of Biology. 8/05-present.
Director of Graduate Studies, Department of Anthropology, 8/08-6/15
Department Chair, Department of Anthropology, 7/15-present
University of Michigan, Ann Arbor, Michigan
Assistant Professor of Anthropology, Tenure Track. 9/96-2002
Assistant Professor of Biology, 12/96-2002
Faculty Member, Genome Training Grant at U. Michigan, 9/97-2002
Executive Committee, Genome Training Grant at U. of Michigan, 11/97-2002
Faculty Member, Institute of Statistical Genetics 9/99-2002
Faculty member, MAC-EPID Program 11/99-2002
Faculty Mentor, Michigan Initiative for Women's health Program, University of Michigan, Ann Arbor Michigan, 48109.
Ohio State University, Columbus, Ohio
Adjunct Assistant Professor of Anthropology (Courtesy Appointment) 4/97-2003
W.M. Keck Foundation for Advanced Training in Computational Biology, University of Pittsburgh, Carnegie Mellon University, and the Pittsburgh Supercomputing Center.
Keck Postdoctoral Fellow, 9/93-9/96
University of Pittsburgh, Pittsburgh, PA
Research Associate: Dr. Robert Ferrell Lab, University of Pittsburgh
Keck Postdoctoral Fellow, W.M. Keck Foundation for Advanced Training in Computational Biology, University of Pittsburgh, Carnegie Mellon University, and the Pittsburgh Supercomputing Center.
Graduate Student Research Assistant: Dr. Robert Ferrell Lab: University of Pittsburgh, Pittsburgh, PA.
Emory University, Atlanta, GA
Research Associate: Dr. Douglas Wallace Lab: Emory University, Atlanta, Ga.

Pennsylvania State University, University Park PA

Teaching Assistant: Biology 101 Lab Instructor: Pennsylvania State University, University Park, Pa.

Lab Assistant: Dr. Andrew G. Clark lab, Pennsylvania State University, University Park, Pa.

Submitted Manuscripts in Review:

Diaz-Lameiro, AM, Isbell, WH, Stahl, PW and Merriwether, DA (submitted) Guanaco versus Vicuña: Uncovering the Wild Ancestor of the Domestic South American Camelids using Pre-Colombian Ancient DNA. *Heredity*

Diaz-Lameiro, AM and Merriwether, DA (submitted) Domestication of South American camelids clarified using whole mitochondrial genomes. *Molecular Ecology*.

Manuscripts in Preparation:

Bongermine Rose, M, DiGangi, E, Merriwether, DA (in prep). The effects of X-rays on DNA recovery from teeth and bones

Diaz-Lamiero, AM, and Merriwether, DA (in prep) Ancient DNA Suggests Single Domestication Origin for South American Camelids in the Northern Andes. Formatted for *Animal Genetics*.

Lee EJ, Merriwether DA. (in prep) Genetic histories of an indigenous population from southern Venezuela inferred from the mtDNA, Y-STRs, and autosomal STRs.

Kennedy, JL, Diaz-Lamiero, AM, and Merriwether, DA (in prep) The role of the Melanocortin 1 Receptor in alpaca fleece coloration.

Kennedy, JGL, Kuhne, H., and Merriwether, DA. (in prep) “Mitochondrial D-loop characterization of the Roman/Parthian Period cemetery at Tall Šēḩ Ḥamad, Syria”

Kennedy, JGL, Shamooun Pour, M, Pipes, ML, and Merriwether, DA. (in prep) “The Bronocice Sheep Project: The use of ancient mitochondrial DNA analysis of sheep to infer human social interactions during the middle Neolithic in southeastern Poland”

Peer Reviewed Publications:

Shamooun-Pour M1, Li M2, Merriwether DA (2019) Rare human mitochondrial HV lineages spread from the Near East and Caucasus during post-LGM and Neolithic expansions. *Sci Rep.* 2019 Oct 14;9(1):14751. doi: 10.1038/s41598-019-48596-1.

Skoglund P, Posth C, Sirak K, Spriggs M, Valentin F, Bedford S, Clark GR, Reepmeyer C, Petchey F, Fernandes D, Fu Q, Harney E, Lipson M, Mallick S, Novak M, Rohland N, Stewardson K, Abdullah S, Cox MP, Friedlaender FR, Friedlaender JS, Kivisild T, Koki G, Kusuma P, Merriwether DA, Ricaut FX, Wee JT, Patterson N, Krause J, Pinhasi R, Reich D. Genomic insights into the peopling of the Southwest Pacific. (2016) *Nature*. Oct 27;538(7626):510-513. doi: 10.1038/nature19844. Epub 2016 Oct 3. PMID: 27698418; PMCID: PMC5515717.

Lazaridis, I, Nadel, D, Rollefson, G, Merrett, DC, Rohland, N, Mallick, S, Fernandes, D, Novak, M, Gamarra, B, Sirak, K, Connell, S, Stewardson, K, Harney, E, Fu, Q, Gonzalez-Fortes, G, Roodenberg, SA, Lengyel, G, Bocquentine, F, Gasparian, B, Monge, JM, Gregg, M, Vered, E, Mizrahi, A-S, Meiklejohn, C, Gerritsen, F, Bejenaru, L, Blüher, M, Campbell, A, Cavalleri, G, Comas, D, Froguel, P, Gilbert, E, Kerr, SM, Kovacs, P, Krause, J, McGettigan, D, Merrigan, M, Merriwether, DA, O'Reilly, S, Richards, MB, Semino, O, Shamoon-Pour, M, Stefanescu, G, Stumvoll, M, Tönjes, A, Torroni, A, Wilson, JF, Yengo, L, Zalloua, P, Hovhannisyan, NA, Patterson, N, Pinhasi, R, and Reich, D (2016) The genetic structure of the world's first farmers. *Nature*. 2016 Aug 25;536(7617):419-24.

Lee EJ, Merriwether DA, Kasparov AK, Khartanovich VI, Nikolskiy PA, Shidlovskiy FK, Timoshin VB, Pavlova EY, Pitulko VV. (in press 2016) A genetic perspective of prehistoric hunter-gatherers in the Siberian Arctic: ancient DNA analysis of human remains from 8,000 years ago. *Journal of Archaeological Science: Reports*.

Vernot B, Tucci S, Kelso J, Schraiber JG, Wolf AB, Gittelman RM, Dannemann M, Grote S, McCoy RC, Norton H, Scheinfeldt LB, Merriwether DA, Koki G, Friedlaender JS, Wakefield J9, Pääbo S, Akey JM. (2016) Excavating Neandertal and Denisovan DNA from the genomes of Melanesian individuals. *Science*. 2016 Apr 8;352(6282):235-9. doi: 10.1126/science.aad9416. Epub 2016 Mar 17.

Lee EJ, Merriwether DA (2015) Identification of Whole Mitochondrial Genomes from Venezuela and Implications on Regional Phylogenies in South America. *Hum Biol*. 2015 Jan;87(1):29-38.

Lee, E. J., Merriwether, D. A., Kasparov, A. K., Nikolskiy, P. A., Sotnikova, M. V., Pavlova, E. Y., & Pitulko, V. V. (2015). Ancient DNA Analysis of the Oldest Canid Species from the Siberian Arctic and Genetic Contribution to the Domestic Dog. *PLoS ONE*, 10(5), e0125759. <http://doi.org/10.1371/journal.pone.0125759>.

Avila F, Baily MP, Merriwether DA, Trifonov VA, Rubes J, Kutzler MA, Chowdhary R, Janečka J, Raudsepp T. (2015) A cytogenetic and comparative map of camelid chromosome 36 and the minute in alpacas. *Chromosome Res*. 2015 Jan 30. PMID: 25634498.

Avila F, Baily MP, Perelman P, Das PJ, Pontius J, Chowdhary R, Owens E, Johnson WE, Merriwether DA, Raudsepp T. (2014) A Comprehensive Whole-Genome Integrated Cytogenetic Map for the Alpaca (*Lama pacos*). *Cytogenet Genome Res*. 2014;144(3):196-207. doi: 10.1159/000370329. Epub 2015 Feb 6. PMID:25662411.

Duggan AT, Evans B, Friedlaender FR, Friedlaender JS, Koki G, Merriwether DA, Kayser M, Stoneking M. (2014) Maternal history of Oceania from complete mtDNA genomes: contrasting ancient diversity with recent homogenization due to the Austronesian expansion. *Am J Hum Genet.* 2014 May 1;94(5):721-33. doi: 10.1016/j.ajhg.2014.03.014. Epub 2014 Apr 10. PMID: 24726474.

Byrnes J, Merriwether DA, Sirianni JE, Lee EJ (2012). MtDNA and osteological analyses of an unknown historical cemetery from upstate New York. *Archaeological and Anthropological Sciences* 4(4):303-311.

Just RS, Loreille OM, Molto JE, Merriwether DA, Woodward SR, Matheson C, Creed J, McGrath SE, Sturk-Andreaggi K, Coble MD, Irwin JA, Ruffman A, Parr RL. (2011) Titanic's unknown child: the critical role of the mitochondrial DNA coding region in a re-identification effort. *Forensic Sci Int Genet.* Jun;5(3):231-5.

Lee EJ, Koki G, Merriwether DA. (2010) Characterization of population structure from the mitochondrial DNA vis-à-vis language and geography in Papua New Guinea. *Am J Phys Anthropol.* Aug;142(4):613-24.

Lee EJ, Luedtke JG, Allison JA, Arber CE, Merriwether DA, Steadman DW. (2010) The effects of different maceration techniques on nuclear DNA amplification using human bone. *Journal of Forensic Sciences, J Forensic Sci.* 2010 Jul;55(4):1032-8.

Lee EJ, Anderson LM, Dale V, Merriwether DA. (2009). MtDNA origins of an enslaved labor force from the 18th century Schuyler Flatts Burial Ground in colonial Albany, NY: Africans, Native Americans, and Malagasy? *Journal of Archaeological Science* 36(12): 2805-2810.

Friedlaender JS, Friedlaender FR, Reed FA, Kidd KK, Kidd JR, Chambers GK, Lea RA, Loo JH, Koki G, Hodgson JA, Merriwether DA, Weber JL. (2008) The genetic structure of Pacific Islanders. *PLoS Genet.* 2008 Jan;4(1):e19.

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Hunley KL, Cabana GS, Merriwether DA, Long JC. (2007) A formal test of linguistic and genetic coevolution in native Central and South America. *Am J Phys Anthropol.* Jan 4; [Epub ahead of print].

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Cabana GS, Merriwether DA, Hunley K, Demarchi DA., (2006) Is the genetic structure of Gran Chaco populations unique? Interregional perspectives on native South American mitochondrial DNA Variation. *Am J Phys Anthropol.* 2006 Feb 16; [Epub ahead of print] PMID: 16485304.

Lansing, J.S., A.J. Redd, T.M. Karafet, J. Watkins, I.W. Ardika, S.P.K. Surata, J.W. Schoenfelder, M. Campbell, D.A. Merriwether, and M.F. Hammer. (2006). Reply [to: Indian traders in Ancient Bali: A Reconsideration of the Evidence]. *Antiquity* 80(307): online at

Norton HL, Friedlaender JS, Merriwether DA, Koki G, Mgone CS, Shriver MD., (2005) Skin and hair pigmentation variation in Island Melanesia. *Am J Phys Anthropol.* 130(2):254-268.

Cerchio, S, Jacobsen, JK, Cholewiak, DM, Falcone, EA. and Merriwether, DA. (2005) Paternity in humpback whales, *Megaptera novaeangliae*: assessing polygyny and skew in male reproductive success (2005) *Animal Behaviour* Volume 70, Issue 2, 1 August 2005, Pages 267-277.

Allaby RG, Peterson GW, Merriwether DA, Fu YB., (2005) Evidence of the domestication history of flax (*Linum usitatissimum* L.) from genetic diversity of the *sad2* locus. *Theor Appl Genet.* 112(1):58-65.

Merriwether DA, Hodgson JA, Friedlaender FR, Allaby R, Cerchio S, Koki G, Friedlaender JS., (2005) Ancient mitochondrial M haplogroups identified in the Southwest Pacific. *Proc Natl Acad Sci U S A.* 2005 Sep 13;102(37):13034-9.: *Proc Natl Acad Sci U S A.* 2005 Nov 15;102(46):16904.

Friedlaender J, Schurr T, Gentz F, Koki G, Friedlaender F, Horvat G, Babb P, Cerchio S, Kaestle F, Schanfield M, Deka R, Yanagihara R, Merriwether DA., (2005) Expanding Southwest Pacific mitochondrial haplogroups P and Q. *Mol Biol Evol.* 22(6):1506-17.

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Robledo R, Scheinfeldt L, Merriwether DA, Thompson F, Friedlaender J., (2003) A 9.1-kb insertion/deletion polymorphism suggests a common pattern of genetic diversity in Island Melanesia. *Hum Biol.* 75(6):941-9.

Mitani, JC, Watts, DP, Pepper, JW and Merriwether, DA (2002) Demographic and social constraints on male chimpanzee behaviour . *Animal Behaviour*, 2002, 64: 727–737.

Friedlaender JS, Gentz F, Green K, Merriwether DA., (2002) A cautionary tale on ancient migration detection: mitochondrial DNA variation in Santa Cruz Islands, Solomon Islands. *Hum Biol.* 2002 Jun;74(3):453-71.

Merriwether, D.A., (2002) The Peopling of the New World: A Mitochondrial Perspective. in *The First Americans: The Pleistocene Colonization of the New World. Proceedings of The Fourth Wattis Symposium. Wattis Symposium Series in Anthropology, Number 25.* 1999, San Francisco, CA.

O'Foighil, D., Jennings, R., Park, J-K, and Merriwether, D.A. (2001) Phylogenetic Relationships of Mid-Oceanic Ridge and Continental Lineages of *Lasaea* (Mollusca: Bivalvia) in the Northeastern Atlantic. *Marine Ecology Progress Series.*

Merriwether, D.A., (2001) Ancient DNA and Kennewick Man: A Review of Tuross and Koman's Kennewick Man aDNA Report. *Current Research in the Pleistocene.*

Smith, C.W., Heath, E., Merriwether, D.A., and Reed, D.M. (2001) Placing a Face In History: Excavation, Facial Re-Construction and DNA Analysis of Skeletal Remains from La Salle's Vessel, La Belle. *BAR INTERNATIONAL SERIES, Volume 934: Pages 105-112*
Publisher: TEMPUS REPARATSM.

Mitani, J.C., Merriwether, D.A., and Zhang, C. (2000). Male Affiliation and Kinship in Wild Chimpanzees. *Journal of Animal Behavior.*

Merriwether, D. Andrew, Brian M. Kemp, Douglas E. Crews & James V. Neel, (2000). 'Gene flow and genetic variation in the Yanomama as revealed by mitochondrial DNA', in *America Past, America Present: Genes and Languages in the Americas and Beyond*, ed. C. Renfrew. (Papers in the Prehistory of Languages.) Cambridge: McDonald Institute for Archaeological Research, 89-124.

Merriwether, D.A., Kaestle, R.A., Zemel, B., Koki, G., Mgone, C., Alpers, M., and Friedlaender, J., (2000) Mitochondrial DNA Variation in the Southwest Pacific. Ed. By S.S. Paphia, R. Deka and R. Chakraborty in: *Genomic Diversity: Applications in Human Population Genetics.* Plenum Publishers, NY.

Lu, Y., Nerurkar, V.R., Dashwood, W-M, Woodward, C., Sherimay, A., Shikuma, C., Grandinetti, A., Chang, H., Nguyen, H.T., Nu, Z., Yamamura, Y., Boto, W.O., Merriwether, D.A., Jurata, T., Detels, R., and Yanagihara, R. (1999) Genotype and Allele Frequency of a 32-Base Pair Deletion Mutation in the CCR5 Gene in Various Ethnic Groups: Absence of Mutation among Asians and Pacific Islanders. *International Journal of Infectious Diseases: Summer;3(4):186-91.*

Banks, D., Constantine, G., LaFrance, R.A. & Merriwether, D. A. (1999). Analysis of Pairwise Differences of DNA Sequences. *Journal of Non-Parametric Statistics.* 11:1, 215-232.

Merriwether, D.A., J. Friedlaender, J. Mediavilla, C. Mgone, F. Gentz, and R.E. Ferrell (1999). Mitochondrial DNA variation is an indicator of Austronesian influence in Island Melanesia. *American Journal of Physical Anthropology* 110:243-270.

Merriwether, D.A. and Kaestle, F.A. (1999) Mitochondrial Recombination? (Continued). *Science* 285:837.

Merriwether, D.A., (1999) Freezer Anthropology: New Uses for Old Bloods. *Philosophical Transactions of the Royal Society Biological Sciences*: 354: 121-129.

Merriwether, D. A., Huston, S., Iyengar, S., Hamman, R., Norris, J. M., Shetterly, S. M., Kamboh, M. I., & Ferrell, R. E. (1997). Mitochondrial versus nuclear admixture estimates demonstrates a past history of directional mating. *American Journal of Physical Anthropology*, 102: 153-159.

Merriwether, D.A., D.M. Reed, & R.E. Ferrell (1997). mtDNA variation in ancient and contemporary Mayans. In S.L. Whittington & D.M. Reed (Eds.), *Bones of the Ancestors: Recent Studies of Ancient Maya Skeletons* Washington, DC: Smithsonian Institution Press.

Easton, R. D., **Merriwether, D. A.**, Crews, D. E., & Ferrell, R. E. (1996). Mitochondrial DNA Variation in the Yanomami: Evidence for Two Additional New World Founding Lineages. *American Journal of Human Genetics*, 59: 213-225.

Merriwether, D. A., Hall, W., Vahlne, A., & Ferrell, R. E. (1996). mtDNA Variation Indicates Mongolia may have been the source for the Founding Population for the New World. *American Journal of Human Genetics*, 59: 204-212.

Merriwether, D.A., & R.E. Ferrell (1996). The Four Founding Lineage Hypothesis: A Critical Re-evaluation. *Molecular Phylogenetics and Evolution* 5: 241-246.

Merriwether, D. A., F. Rothhammer, and R. E. Ferrell (1995). Distribution of the Four-Founding Lineage Haplotypes in Native Americans Suggests a Single Wave of Migration for the New World. *American Journal of Physical Anthropology* : 98(4) 411-430.

Merriwether, D.A., F. Rothhammer, & R.E. Ferrell (1995). mtDNA D-loop 6-bp deletion found in the Chilean Aymara: not a unique marker for Chibchan speaking Amerindians. *Am J Hum Gen.* 56:812-13.

Merriwether, D.A. (1994). mtDNA and the Peopling of the New World. *Mother Tongue*, 23:22-28.

Merriwether D.A., Huston S.L., Bunker C.A., Ferrell R.E. (1994) Origins and dispersal of the mtDNA region V 9-bp deletion and insertion in Nigeria and the Ivory Coast. *Am J Hum Gen* 55:A158.

Merriwether, D.A., F. Rothhammer, & R.E. Ferrell (1994). Genetic Variation in the New World: Ancient Teeth, Bone, and Tissue as Sources of DNA. *Experientia*, 50, 592-601.

Merriwether, D.A., F. Rothhammer, & R.E. Ferrell (1993). Mitochondrial DNA D-Loop Sequence Variation in Native South Americans. *American Journal of Human Genetics*, 53(suppl), 833.

Merriwether, D. A., F. Rothhammer, et al. (1992). Mitochondrial DNA Variation in Ancient and Contemporary Amerindians using the tRNALYS-COII Deletion and Diagnostic Restriction Sites. *American Journal of Human Genetics* 51(4): A13.

Merriwether, D. Andrew, Andrew G. Clark, Scott W. Ballinger, Theodore G. Schurr, Himla Soodyall, Trefor Jenkins, Stephen T. Sherry, and Douglas C. Wallace. (1991) The structure of human mitochondrial DNA variation. *Journal of Molecular Evolution* 33: 543-555.

Schurr, T.G., S.W. Ballinger, Y.Y. Gan, J.A. Hodge, **D.A. Merriwether**, D.N. Lawrence, W.C. Knowler, K.M. Weiss, and D.C. Wallace. (1990) Amerindian Mitochondrial DNAs have Rare Asian Mutations at High Frequencies, Suggesting They Derived from Four Primary Maternal Lineages. *American Journal of Human Genetics* 46: 613-623.

Clark, A.G., F.M. Szumski, K.A. Bell, L.E. Keith, S. Houtz, and **D.A. Merriwether**. (1990) Direct and Correlated Responses to Artificial Selection on Lipid and Glycogen Contents in *Drosophila melanogaster*. *Genetical Research* 56: 49-56.

Shorter communications, letters, notes or briefs in refereed publications:

Merriwether, D.A. and Kaestle, F.A. (1999) Mitochondrial Recombination? (Continued). *Science*, 285:837.

Merriwether D.A., Huston S.L., Bunker C.A., Ferrell, R.E. (1994) Origins and dispersal of the mitochondrial DNA region V 9-bp deletion and insertion in Nigeria and the Ivory Coast. *American Journal of Human Genetics* , 55(3):A158.

Merriwether, D.A., Rothhammer, F., and Ferrell, R.E. (1993). Mitochondrial DNA D-Loop Sequence Variation in Native South Americans. *American Journal of Human Genetics*, 53(suppl),833.

Merriwether, D.A., Rothhammer, F., and Ferrell, R.E. (1992). Mitochondrial DNA Variation in Ancient and Contemporary Amerindians using the tRNALYS-COII Deletion and Diagnostic Restriction Sites. *American Journal of Human Genetics*, 51(4): A13.

Merriwether, D.A., (1989), *Molecular Anthropology*. Bulletin of the National Association of Student Anthropologists, Vol. 5, No. 2: 6-8.

Refereed Book Chapters:

Shamoon-Pour, M., Fehren-Schmitz, L., Merriwether, DA and Reid, BA (2017) Chapter 7. Mitochondrial HVS-1 Sequences of Pre-Contact Human Remains from the Red House Site. in *AN ARCHAEOLOGICAL STUDY OF THE RED HOUSE IN PORT OF SPAIN (TRINIDAD)*, Edited by REID, BA. Trinidad.

Hunley, K, Dunn, M, Lindström, E, Reesink, G, Terrill, A, Norton, H, Scheinfeldt, L, Friedlaender, FR, Merriwether, DA, Koki, G, and Friedlaender, JS. (2007) Chapter 9. Inferring Prehistory from Genetic, Linguistic, and Geographic Variation. Population Genetics, Linguistics, and Culture History in the Southwest Pacific, Oxford Scholarship Online Monographs September 2007 , pp. 141-155(15).

Friedlaender, JS. Friedlaender, FR. Hodgson, JA. McGrath, S, Stoltz, M, Koki, G, Schurr, TG, and Merriwether, DA (2007) Chapter 4. Mitochondrial DNA Variation in Northern Island Melanesia Population Genetics, Linguistics, and Culture History in the Southwest Pacific, Oxford Scholarship Online Monographs September 2007 , pp. 61-81(21).

Merriwether, D.A. (2006) Mitochondrial DNA. in *The Handbook of the North American Indians, Volume 3: Environment, Origins, and Population: Human Biology*, General Editor, Sturtevant, William C. Volume Editor, Ubelaker, Douglas H., Washington, D.C.: Smithsonian Institution, Pages 817-830., ISBN 978-0160775116

Friedlaender, JS, Friedlaender, FR, Hodgson, JA, McGrath, S, Stoltz, M., Koki, G, Schurr, TG, and Merriwether, DA. (2005) Mitochondrial genetic diversity and its determinants in Island Melanesia. Andrew Pawley, Robert Attenborough, Jack Golson and Robin Hide, eds, 2005, *Papuan pasts: cultural, linguistic and biological histories of Papuan-speaking peoples*, Ch. 23: 693–716.

Friedlaender, JS, Friedlaender, FR, Kaestle, F, Schurr, TG, Koki, G, Schanfield, M, McDonough, JW, Smith, L, Cerchio, S, Mgone, C, and Merriwether, DA. (2005) Mitochondrial genetic diversity and its determinants in Island Melanesia. Andrew Pawley, Robert Attenborough, Jack Golson and Robin Hide, eds, 2005, *Papuan pasts: cultural, linguistic and biological histories of Papuan-speaking peoples*, Ch. 23: 693–716.

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Merriwether, D.A., Kaestle, R.A., Zemel, B., Koki, G., Mgone, C., Alpers, M., and Freidlaender, J., (2000) Mitochondrial DNA Variation in the Southwest Pacific. Ed. By S.S. Paphia, R. Deka and R. Chakraborty in: Genomic Diversity: Applications in Human Population Genetics. Plenum Publishers, New York. pp153-180.

Merriwether D.A. et al. (1999) Mitochondrial DNA Variation in the Southwest Pacific. In: Papiha S.S., Deka R., Chakraborty R. (eds) Genomic Diversity. Springer, Boston, MA

Merriwether, D.A., Reed, D.M., and Ferrell, R.E. (1997). mtDNA variation in ancient and contemporary Mayans. In S.L. Whittington and D.M. Reed (Eds.), Bones of the Ancestors: Recent Studies of Ancient Maya Skeletons Washington, DC: Smithsonian Institution Press.

Government, University or Industrial reports (non-refereed):

Merriwether, D.A., and Cabana, G., (2000) Report on Kennewick Man. Submitted to the department of the Interior 9/15/00.

Shorter communications, letters, notes or briefs in non-refereed publications:

Merriwether DA (2013) Einige Basisregeln über die Farbvererbung bei Alpakas. Frühlingsschau 2013 des Vereins NeuweltkamelidenSchweiz, Fehraltorf (ZH) hippodrome, Switzerland.

Merriwether, D.A., (2010) The Genetics of Grey Alpacas, Alpacas Magazine.

Merriwether, D.A. (2009) Toenails and Teeth: Adaptive Traits in Alpacas, AlpacaStreet.com.

Merriwether, D.A. (2008) Tools for Investigating Birth Defects:Atresia ani,AlpacaStreet.com, July 2008.

Merriwether, D.A., (2008) A Breeding Plan for Small Breeders in the US Market, AlpacaStreet.com, August 2008.

Merriwether, D.A., (2008) Research Prior to Purchase: What should you do? AlpacaStreet.com, September, 2008.

Merriwether, D.A., (2008) The Alpaca Genome Project. AlpacaStreet.com, June 2008.

Merriwether, D.A., (2007) How to figure out the recessive color. AlpacaStreet.com, July, 2007.

Merriwether, D.A., (2007) Advice to Breeders When Defects Arise, AlpacaStreet.com, September, 2007.

Merriwether, D.A., (2007) Advice against linebreeding, AlpacaStreet.com, October 2007.

Merriwether, D.A., (2007) Domestication of Camelids, AlpacaStreet.com, November 2007.

Merriwether, D.A., (2007) Report on the First International Workshop on Camelid Genetics, AlpacaStreet.com, January 2008.

Merriwether, D. A., and Merriwether, A. M. (2003) Alpaca Color Genetics. *Alpacas Magazine*. Summer, 2003, pp164-168.

Merriwether, D.A., (2001) Uses of Ancient DNA in Archaeology. *The Grapevine* Newsletter: For Cultural Resources Management. 11(5):4-7.

Merriwether, D.A., (2001) Politics and Research in Molecular Anthropology, *Science Next Wave*.

Awards and Fellowships

(DATEs) UCLA School of Molecular Evolution Fellowship (\$800):

1993 Keck Scholar, W.M. Keck Foundation for Advanced Training in Computational Biology

1993 Student Honoree, University of Pittsburgh Honors Convocation

1993 Sigma Xi Honor Society, Inducted full member

1993 Omicron Delta Honor Society, Inducted full member

1988 Hillson Fellowship, Pennsylvania State University

1988 Valuable Service Award, National Association of Student Anthropologists

1986-1988 Penn State University Scholars Program, Pennsylvania State University

1985-1987 Golden Key Honor Society

Awarded Grants, Research Contracts, Forensic and Museum Cases:

2019-2020 Marie Antionette's Handkerchief aDNA project (\$2000). PI: **D. Andrew Merriwether**. Pierre Family.

2019 New York State Musuem Identification of Putative Native American Remains (\$6000) PI: **D. Andrew Merriwether**. NYS Museum. SUNY.

2018-2020 The Impacts of Chronic Stress: Connecting psychosocial stress and epigenetics (\$2000) PI: **D. Andrew Merriwether**. Binghamton University

2018 Union College Massacre Skull Project (\$2000) PI: **D. Andrew Merriwether**. Union College

2015-2018 National Science Foundation Dissertation Improvement Grant (\$11,831): Doctoral Dissertation Research: Understanding Cultural Influences On Population Structure and History through Genetic Analyses of Assyrians. Award Number: 1455744. Principal Investigator; **D. Andrew Merriwether**. Student: Michel Shamoon Pour. Start Date: May 1, 2015, End Date:December 31, 2016 (Estimated)

2015-2018 Wenner Gren Foundation for Anthropological Research (\$20,000). The Genetic

History or the Assyrian Population. Investigator; **D. Andrew Merriwether**. Student: Michel Shamoon Pour

2015 Norwegian Forensic Evaluation and Paternity Test of multiple personal items from one individual and two relatives (\$2000) contract awarded to **D. Andrew Merriwether**

2012-Present. El rol del ADN en la herencia de las alpacas, color, raza y defectos congénitos. Universidad Nacional de San Antonio Abad del Cusco. (3 million Nuevo Sols, ~\$1.3 million USD) Awarded to Cusco University: **D. Andrew Merriwether** and C. Walter Bravo PIs.

2012 to 2014 Rock Foundation Contract (\$52,000): Siberian Ancient Canine and Human DNA Project. Contract awarded to **D. Andrew Merriwether**.

2013 to 2014 Government of Trinidad and Tobago Contract (\$8,000): Red House Project. Contract awarded to **D. Andrew Merriwether**

2015 Nunavut Government Grant (\$6000) awarded to **D. Andrew Merriwether**

2016 Bradford County Coroner Contract (\$2000): identification of human remains awarded to **D. Andrew Merriwether**

2014 Bradford County Coroner Contract (\$2000): identification of human remains awarded to **D. Andrew Merriwether**

2012-14 National Science Foundation (\$25,000) Bronicice Sheep Project. PI. Pipes. Transferred 100% of funds to **D. Andrew Merriwether** to execute the Grant

2011-2012 US Park Service. Individual Identification Grant (\$2000) awarded to **D. Andrew Merriwether**

2012-2013 US Park Service. Species Identification Grant (\$2000) awarded to **D. Andrew Merriwether**

2005-2007 Alpaca Research Foundation (\$12,000) Mapping the gene(s) for the Suri Phenotype. PI: **D. Andrew Merriwether**

1999-2002 National Science Foundation (Molecular Evolution of the Yanomama), \$285,000, PI: **D. Andrew Merriwether**

1996-2001 Undergraduate Research Opportunity Program, University of Michigan (Molecular Anthropology), \$3000-6,000 per year. PI: **D. Andrew Merriwether**

2001-2003 Office of the Vice President of Research and the College of Literature, Science and the Arts, University of Michigan (Ancient DNA Banking and Confirmation of Ruthven Museum

Native American Remains) PI: John O'Shea, Co-PI: **D. Andrew Merriwether** \$100,000

2000 NSF Dissertation: An Investigation of Prehistoric Population Relationships Using Ancient DNA: The Test Case of Azapa Valley, Northern Chile. NSF Award Number: 9910870. Start Date: January 1, 2000, End Date: December 31, 2000 Awarded: \$12,000.00 PI: **D. Andrew Merriwether**. Student Graciela Cabana.

1996-2000 National Science Foundation (The Peopling of Island Melanesia), \$100,000 PI: **D. Andrew Merriwether**

1999-2000 National Science Foundation Extension \$16,800, PI: **D. Andrew Merriwether**

1998-1999 Wenner -Gren Foundation (Genetics of adaptation to altitude), \$12,000, PI: Cynthia Beall, Co-PI **D. Andrew Merriwether**

1999-2000 Office of the Vice President of Research and the College of Literature, Science and the Arts, University of Michigan (Ancient DNA and Modern Human Origins), -\$150,000, PI: **D. Andrew Merriwether**

1999-2000 Louis B. Leakey Foundation (Molecular Evolution of Chimpanzees from Kibale Forest, Uganda), \$5,550, PI: John Mitani, Co-PI **D. Andrew Merriwether**

Professional Memberships Past and Present

Bald Eagle Archaeology Society, Chapter 24, Society for Pennsylvania Archaeology:
National Association of Student Anthropologists, Unit of the American Anthropological Association

American Anthropology Association

Biological Anthropology Section of the American Anthropological Association

Society for Medical Anthropology

Society for American Archaeology

American Association of Physical Anthropologists

American Society of Human Genetics

Society of Molecular Biology and Evolution Member

Ancient Biomolecules Association

American Association of Anthropological Geneticists

American Association for the Advancement of Science

Human Biology Association

Professional Service:

2001-2005: Associate Editor, American Journal of Physical Anthropology,

2000-2005 Executive Committee Member at Large, Biological Anthropology Section,

American Anthropological Association

2000-2003, Associate Editor, Ancient Biomolecules Journal.

1997-2001: Anthropology Newsletter Contributing Editor, Biological Anthropology Section,

American Anthropological Association

1998-2000: American Association of Physical Anthropologists Scientific Program Committee

1988-1990: Contributing Editor, Anthropology Newsletter, National Association of Student Anthropologists (NASA) , American Anthropology Association (AAA)

1990-1993: Teaching Award Committee Chair, National Association of Student Anthropologists, American Anthropology Association

1991-1993: President, National Association of Student Anthropologists, American Anthropological Association

1991-1993: Board of Directors, American Anthropological Association^[1]_[SEP]

1991-1993: External Relations Committee, American Anthropological Association

1989-1990: Acting President, National Association of Student Anthropologists, American Anthropological Association^[1]_[SEP]

1988-1990: Editor, National Association of Student Anthropologists, American Anthropological Association^[1]_[SEP]

1988-1990: Vice-President, National Association of Student Anthropologists, American Anthropological Association^[1]_[SEP]

1987-1990: Chairman, Committee for National Student Meetings, National Association of Student Anthropologists, American Anthropology Association

1986-1988: Liaison, National Association of Student Anthropologists, American Anthropological Association^[1]_[SEP]

1986-1988: Undergraduate Member-at-Large , National Association of Student Anthropologists, American Anthropological Association^[1]_[SEP]

1986-1987: Chairman, Journal Search Committee, National Association of Student Anthropologists, American Anthropological Association^[1]_[SEP]

1985-1987: President, Anthropology Promotion and Enrichment Sodality (APES) : Anthropology club, Penn State, University Park, PA.^[1]_[SEP]

1984-1986: Vice-President, Bald Eagle Archaeology Society, Chapter 24, Society for Pennsylvania Archaeology

Internal Service: University Service:

1997-present: Executive Committee Member, Genetics Training Grant: University of Michigan.

1997-present: Mentor, Michigan Women in Medical Sciences: University of Michigan.

2000-present: Search Committee for three Statistical Geneticists, Department of Biostatistics, Department of Human Genetics, University of Michigan.

Departmental Service:

1998-present: Research Committee Representative to LSA, Department of Anthropology, University of Michigan.

2000-2001: Representative, Life Sciences Values and Society Program, Department of Anthropology, University of Michigan.

1999-2000: Michigan Life Science Corridor Representative, Department of Anthropology, University of Michigan.

1992-1994: Graduate Student Representative to the Executive Committee, Department of Human Genetics, University of Pittsburgh.

8/08-6/15 Director of Graduate Studies, Department of Anthropology, Binghamton University (SUNY), Binghamton, NY

7/15-present Department Chair, Department of Anthropology, Binghamton University (SUNY), Binghamton, NY

2003-present Served on search committees, or acted as Department Chair on searches, for Sedra Amy Snipes, Christine Reiber, Katherine Wander, Matthew Sanger, Sabina Perrino, Rolf Quam, Elizabeth DiGangi, Erica Bornstein

2015-present: Acted as Department Chair for promotion cases of Ralph Garruto, Rolf Quam, and Elizabeth DiGangi, currently Department Chair for Josh Reno's non-mandated tenure and promotion case (Due September 2016).

Current Doctoral Students with Merriwether as Chair

Weyi Guo

Stacy McGrath

Kay Grennan

Cassandra Koch

Ruwansha Galegadara

Current PhD students with Merriwether on committee (not chair)

Ada Demleitner

Katrina Ollesch

Kate DeRosa

Emily Dew

Elizabeth Evangelou

Amelia Hessey

Elizabeth Celata

Mandy Guitar

Mian Li

Doctoral Students Graduated with Merriwether as Chair (or co-Chair)

Keith Hunley (now associate professor with tenure at University of New Mexico)

Graciela Cabana (now associate professor with tenure at University of Tennessee, Knoxville)

Esther Lee (currently lecturer at Texas Tech University)

Jennifer Luedtke Kennedy (currently lecturer at Central Michigan University)

Alondra Diaz Lamiero (currently lecturer at Towson State University)
Michel Shamoon Poor (currently clinical research assistant professor at Binghamton University)

Doctoral Students Graduated with Merriwether as committee member (but not chair)

Lisa Mills (currently State Epidemiologist for the State of Ohio)
John Hawks (currently associate professor with tenure at University of Wisconsin)
Russel Nelson (currently lecturer, Western Wyoming College)
Sal Cherchio (currently curator, American Museum of Natural History)
Sara Kindschuh (currently working at Defense POW/MIA Accounting Agency, Central Identification Laboratory, Nebraska)
Brian Kemp (currently associate professor, Oklahoma State University)
Amy Huard (currently lecturer at Nashua Community College, Manchester Community College)
Jeremy Wilson (currently assistant professor Indiana University-Purdue University Indianapolis)
Migel Vilar (Currently staff member National Geographic Project)
Ben Figura (currently Deputy Director of Forensic Investigations and Forensic Anthropologist at Office of Chief Medical Examiner, New York City, NY)
Giovanna Vidoli (Research Assistant Professor, University of Tennessee, Knoxville)
Dongya Yang (currently Professor , Simon Fraser University)

Masters Students Graduated with Merriwether as Chair (or co-Chair)

Jennifer Luedtke
Lisa Manerino
Kalen Casey
Kristin Saari
Elena Kouneski
Sasha Pinto
Kay Grennan
Stacy McGrath
Matthew Stoltz
Dan Lynch
Alexandra Buck
Leslie Coss
Randy David (Biology)
Michelle Rose Bongermano

Post-Doctoral Fellows Trained

David Reed (Currently Research Scientist, Kellogg Eye Center, University of Michigan)
Salvatore Cherchio (Currently Research Scientist at the New England Aquarium)
Robin Allaby (Currently Associate Professor at Warwick College in England)
Frederika Kaestle (Currently Associate Professor at Indiana University)

Masters Students Graduated Committee Member (not chair)

Nicole Jastremski
Koneru Sree Naresh (Biomedical Engineering)
Kito Nzingha

Paulette Steeves

Teaching:

I have taught the following grad courses since coming to Binghamton University. I have had a 3 course per year load from 2007 to 2015. These are in addition to training 3-8 grad students in both anthropology and biology in the lab in independent study. I also usually train between 6 and 18 undergrads in independent study courses each year.

Graduate Courses Taught

515 Evolution Theory
572M Molecular Anthropology Lab
559 Molecular Anthropology Theory
572F Ancient DNA and Forensics Lab
572P Phylogenetics and Molecular Evolution

Undergraduate Courses Taught

168 Introduction to Biological Anthropology
333 Human Genetics (I taught this at the 200, 300 and 400 levels, now permanently anth333)
485 Ancient DNA and Forensics Lab
380M Molecular Anthropology Lab
426 Molecular Anthropology Theory
240 Medical Anthropology for Pre-Health