

Anne C. Stone

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Education

1996 Doctor of Philosophy in Anthropology, Pennsylvania State University
1992 Master of Arts (with honors) in Anthropology, Pennsylvania State University
1989 Bachelor of Arts in Archaeology and Biology, University of Virginia

Employment History

2003- Associate Professor, Department of Anthropology (now School of Human Evolution and Social Change), Arizona State University
1999-2003 Assistant Professor, Department of Anthropology, University of New Mexico
1997-1998 Post-doctoral Fellow, Department of Ecology and Evolutionary Biology, University of Arizona
1989-1996 Teaching assistant for Introduction to Biological Anthropology and Biology of Human Disease (5 semesters total), research assistant (4 semesters), museum assistant (3 semesters), Department of Anthropology, Pennsylvania State University

Professional Interests

Population genetics, primates, ancient DNA, evolution of disease, biogeography.

Academic Honors and Awards

2007 Kavli fellow, Kavli Frontiers of Science program, US frontiers.
2003 Southwest Regional Young Investigator Award, Sigma Xi, The Scientific Research Society.
2000 Young Investigator Award of the University of New Mexico Sigma Xi Chapter
1997-1998 National Institutes of Health NRSA Post-doctoral fellowship with Dr. Michael Hammer at the University of Arizona.
1996 Earnest A. Hooton Prize for the poster "Genetic analysis of a prehistoric Native American population", American Association of Physical Anthropologists, Durham, N.C.
1992-1993 Fulbright Scholarship to study with Dr. Svante Pääbo at the Ludwig Maximilian University in Munich, Germany
1992 Honorable Mention, Graduate Research Exhibit, Pennsylvania State University.
1992 Matson/Benson Award for Service, Matson Museum of Anthropology, The Pennsylvania State University.
1990 National Science Foundation Honorable Mention Recipient.

External Research Grants

- 2009-2010 Evolutionary history of tuberculosis: an ancient DNA approach. Research Experience for Undergraduates (NSF) supplement to BCS-0612222. (PI)
- 2008-2012 Characterization and Evolution of Copy Number Variation Among Primates. Grant from the National Institutes of Health. 1R01GM081533-01A1. Co-PI with PI Dr. Charles Lee (Harvard University) and Co-PI Dr. Yoav Gilad (University of Chicago)
- 2007-2010 Recombination and population history in Pan. Grant from the National Science Foundation, BCS-07115972. Co-PI with PI Dr. Brian Verrelli
- 2006-2009 Evolutionary history of tuberculosis: an ancient DNA approach. Grant from the National Science Foundation, BCS-0612222. PI with Co-PIs Dr. Jane Buikstra and Dr. Alicia Wilbur.
- 2005 Genetic history of Peru, Research Experience for Undergraduates (NSF) supplement to BCS-0242958. (PI)
- 2003-2007 Genetic history of Peru, Grant from the National Science Foundation, BCS-0242958 (0401434). (PI)
- 2002 Y Chromosome Diversity in the genus Pan. Research Experience for Undergraduates (NSF) supplement to BCS-0073871. (PI)
- 2000-2003 Y Chromosome Diversity in the genus Pan. Grant from the National Science Foundation, BCS-0073871. (PI)
- 1999 The evolutionary history of the genus *Pan*: a molecular investigation using the Y chromosome. Grant from the National Science Foundation. (PI)
- 1997-1998 Y chromosome variation in *Pan troglodytes* and *Pan paniscus*. Grant from the Wenner-Gren Foundation for Anthropological Research. (PI)
- 1994 Genetic and mortuary analyses of a prehistoric Native American community. NSF Dissertation Improvement Grant. Co-PI with PI Dr. Mark Stoneking.
- 1994 Genetic and mortuary analyses of a prehistoric Native American community. General grant from The L.S.B. Leakey Foundation.
- 1993 Sex determination of skeletal remains using DNA analysis. Grant-In-Aid of research from Sigma Xi, the Scientific Research Society.

Internal Research Grants

- 2008-2011 People, Primates, and Pathogens: The Evolution of a Global Emergency, and the Future of Conservation and Public Health Efforts. Grant funded by Late Lessons from Early History, a research initiative funded by the ASU President's Strategic Initiatives Fund. (Co-PI)
- 2002 Research Allocations Committee (RAC) grant for Tuberculosis susceptibility among Paraguayan populations. (PI)
- 2000 Research Allocations Committee (RAC) grant for Genetic diversity in prehistoric and present-day populations of Peru. (PI)
- 1997 Y chromosome variation in the genus *Pan*. Small grant from the University of Arizona Foundation and the Office of the Vice President for Research.
- 1994 Hill Fellowship for dissertation research, Department of Anthropology, The Pennsylvania State University.

Publications

- Submitted Perry GH, Verrelli BC, Blekhman R, Stone AC, and Lee C. A population genetics study of X chromosomal copy number variation in humans and chimpanzees. Submitted to Genetics.
- Submitted Stone AC, Battistuzzi F, Kubatko LS, Perry GH, Trudeau E, Lin H, and Kumar S. Analysis of complete mtDNA sequences in Pan. Submitted to the Proceedings of the Royal Society, Series B.
- Submitted Pfister LA, Rosenberg MS, and Stone AC. Timing the spread of pathogenic Mycobacteria: surprisingly ancient origins of tuberculosis and leprosy. Submitted to Nature.
- Submitted Ferguson W, Dvora S, Stone AC, and Boissinot S. Long-term balancing selection at the anti-viral gene OAS1 maintains functionally different alleles in chimpanzees. Submitted to PLOS genetics.
- In Press Claw KG, Tito RY, Stone AC, and Verrelli BC. Haplotype structure and divergence at human and chimpanzee serotonin transporter and receptor genes: implications for behavioral disorder association analyses. Molecular Biology and Evolution
- 2009 Stone AC, Wilbur AK, Buikstra JE, and Roberts CA, Tuberculosis and leprosy in perspective. Yearbook of Physical Anthropology 140 Suppl 49:66-94.
- 2009 Wilbur AK, Bouwman AS, Stone AC, Roberts CA, Pfister LA, Buikstra JE, and Brown TA, Deficiencies and challenges in the study of ancient tuberculosis DNA. Journal of Archaeological Science 36:1990-1997
- 2008 Different Selective Pressures Shape the Molecular Evolution of Color Vision in Human and Chimpanzee Populations. Verrelli BC, Lewis CM, Stone AC, and Perry GH. Molecular Biology and Evolution 25:2735-2743
- 2008 Copy number variation and genome evolution in humans and chimpanzees. Perry GH, Yang F, Marques-Bonet T, Murphy C, Fitzgerald T, Lee AS, Hyland C, Smith RS, Stone AC, Hurles ME, Tyler-Smith C, Eichler EE, Carter NP, Lee C, and Redon R. Genome Research 18:1698-1710.
- 2007 Lewis CM, Buikstra JE, and Stone AC. Ancient DNA and genetic continuity in the south central Andes. Latin American Antiquity 18:145-160.
- 2007 Lewis CM, Lizarraga B, Tito RY, Lopez P, Iannaccone GC, Medina AC, Marinez RE, Polo SI, de la Cruz F, Cáceres AM, and Stone AC. Mitochondrial DNA and the peopling of South America. Human Biology 79:159-178.
- 2007 Perry GH, Dominy NJ, Claw KG, Lee AS, Werner J, Villanea FA, Mountain JL,

- Misra R, Lee C, and Stone AC. Diet and the evolution of amylase gene copy number variation among human populations. Nature Genetics 39:1256-1260.
- 2007 Benn Torres J, Kittles R, and Stone AC. Mitochondrial and Y chromosome diversity in the English-speaking Caribbean. Annals of Human Genetics 71:782-90
- 2007 Parker-Katirae L, Carson AR, Yamada, T, Arnaud P, Feil R, Abu-Amero SN, Moore GE, Kaneda M, Perry GH, Stone AC, Lee C, Meguro-Horike M, Sasaki H, Kobayashi K, Scherer SW. Identification of the imprinted KLF14 transcription factor undergoing human-specific accelerated evolution. PLOS Genetics, May 4;3(5):e65
- 2007 Becquet C, Patterson N, Stone A, Przeworski M, and Reich D. Elucidating the population structure of chimpanzees. PLOS Genetics, Apr 20;3(4):e66.
- 2007 Wilbur AK, Kubatko LS, Feurstein JR, Hurtado AM, Hill KR, and Stone AC. Vitamin D receptor gene polymorphisms and susceptibility *M. tuberculosis* in Native Paraguayans. Tuberculosis 87:329-337
- 2007 Clark VJ, Ptak SE, Tiemann I, Qian Y, Coop G, Stone AC, Przeworski M, Arnheim M, and Di Rienzo A, Combining sperm typing and LD analyses reveals differences in selective pressures or recombination rates across human populations. Genetics 175:795-804
- 2006 Stone AC and Verrelli BC. Focusing on comparative ape population genetics in the post-genomic age. Current Opinion in Genetics and Development. 16:586-591
- 2006 Verrelli BC, Tishkoff SA, Stone AC and Touchman JW. Contrasting histories of G6PD molecular evolution and malarial resistance in humans and chimpanzees. Molecular Biology and Evolution. 23:1592-1601.
- 2006 Perry GH, Tchinda J, McGrath SD, Zhang J, Picker SR, Cáceres AM, Iafrate AJ, Scherer SW, Eichler EE, Lee C, and Stone AC. Hotspots for copy number variation in chimpanzees and humans. Proceedings of the National Academy of Sciences, USA 103:8006-8011.
- 2006 Wooding S, Bufe B, Grassi C, Howard MT, Stone AC, Vazquez M, Dunn DM, Meyerhof W, Weiss RK, and Bamshad MJ, Convergent evolution of bitter taste sensitivity in humans and chimpanzees. Nature 440:930-934.
- 2006 Perry GH, Verrelli B, and Stone AC, Molecular evolution of the primate developmental genes *MSX1* and *PAX9*. Molecular Biology and Evolution 23:644-654.

- 2005 Lewis CM, Tito R, Lizarraga B, and Stone AC, Land, Language, and Loci: MtDNA in Native Americans and the Genetic History of Perú. American Journal of Physical Anthropology. 127: 351-360.
- 2005 Perry G, Verrelli B, and Stone AC, Comparative analyses reveal a complex history of molecular evolution for human MYH16. Molecular Biology and Evolution 22:379-382.
- 2005 Wooding S, Stone AC, Dunn DM, Mummidi S, Jorde LB, Weiss RB, Ahuja SK, and Bamshad MJ, A selective sweep in chimpanzee CCR5 and resistance to AIDS. American Journal of Human Genetics 76:291-301.
- 2003 Ramenofsky AF, Wilbur AK and Stone AC, Native American disease history: past, present, future directions. World Archaeology 35:241-257.
- 2003 Pearson OM and Stone AC, On the diffusion-wave model for the spread of modern humans. Current Anthropology 44:559-561
- 2003 Hofkin BV, Wright A, Brown J, Miller RD, Rassmann K, Snell H, Stone AC and Snell H, Ancient DNA gives green light to repatriation of Galápagos Iguanas. Conservation Genetics 4:105-108.
- 2002 Monsalve MC, Stone AC, Lewis CM, Rempel A, Richards M, Straathof D, and Devine DV, Molecular analysis of 550 year old human remains found in a glacier in Canada. American Journal of Physical Anthropology. 119:288-291
- 2002 Bamshad M, Mummidi S, Gonzalez E, Ahuja SS, Dunn DM, Stone AC, Jorde LB, Ahuja SK, Weiss RB, Evidence of balancing selection in the 5' cis-regulatory region of CCR5. Proceedings of the National Academy of Sciences, USA 99:10539-10544
- 2002 Stone AC, Griffiths RC, Zegura SL and Hammer M, High levels of Y-chromosome nucleotide diversity in the genus *Pan troglodytes*. Proceedings of the National Academy of Sciences, USA 99:43-48.
- 2001 Stone AC, Starrs JE and Stoneking M, Mitochondrial DNA analysis of the presumptive remains of Jesse James. Journal of Forensic Sciences 46:173-176.
- 1999 Stone AC and Stoneking M, Analysis of ancient DNA from a prehistoric Amerindian cemetery. Philosophical Transactions of the Royal Society, London, series B 354:153-159.
- 1998 Stone AC and Stoneking M, MtDNA analysis of a prehistoric Oneota population: implications for the peopling of the New World. American Journal of Human Genetics 62(5):1153-1170.
- 1997 Krings M, Stone AC, Schmitz RW, Krainitzki H, Stoneking M and Pääbo S,

Neandertal DNA sequences and the origin of modern humans. Cell 90(1):19-30.

- 1996 Stone AC and Stoneking M, Genetic analyses of an 8000 year-old Native American skeleton. Ancient Biomolecules 1:83-87.
- 1996 Stone AC, Milner GR, Pääbo S and Stoneking M, Sex determination of ancient human skeletons using DNA. American Journal of Physical Anthropology 99:231-238.
- 1994 Handt O, Richards M, Trommsdorf M, Kilger C, Simanainen J, Georgiev O, Bauer K, Stone A, Hedges R, Schaffner W, Utermann G, Sykes B, and Pääbo S, Molecular genetic analyses of the Tyrolean Ice Man. Science 264:1775-1778.
- 1993 Stone AC and Stoneking M, Ancient DNA from a Pre-Columbian Amerindian population. American Journal of Physical Anthropology 92:463-471.

Book Chapters

- Submitted Wilbur AK and Stone AC, Using ancient DNA techniques to study human disease. In *The History of Paleopathology*, JE Buikstra and CA Roberts, eds., Oxford University Press.
- 2006 Stone AC, Ancient DNA research in North America, In *Environment, Origins, and Population. Handbook of North American Indians*, Vol. 3, Ubelaker D. ed., Washington D.C.: Smithsonian Institution.
- 2005 Lewis CM and Stone AC, MtDNA diversity at the archaeological site of Chen Chen in Perú. In *Biomolecular Archaeology: Genetic Approaches to the Past*. D. Reed ed. Occasional Paper No. 32, Center for Archaeological Investigations. Carbondale: Southern Illinois University Press. Pp. 47-60.
- 2005 Monsalve VM, Lewis CM and Stone AC, DNA analysis of human remains dated circa 500YB found recently in Canada. In *Biomolecular Archaeology: Genetic Approaches to the Past*. D. Reed ed. Occasional Paper No. 32, Center for Archaeological Investigations. Carbondale: Southern Illinois University Press. Pp. 9-21.
- 2003 Monsalve MV, Stone AC, Lewis CM, Rempel A, Richards M, Straathof D, and Devine DV. MtDNA-analysis of human ancient remains found in a glacier in Canada in 1999. In *Mummies in a new millenium: proceedings of the 4th congress on mummy studies*. N. Lynnerup, C. Andreasen, and J. Berglund, eds. Pp. 128-130. Copenhagen: Danish Polar Center. p. 128-130.

- 2003 Stone AC, Extraction and amplification of ancient DNA. In *PCR Technology: Current Innovations*, 2nd Edition. Thomas Weissensteiner, Hugh Griffin, and Annette Griffin, eds. Boca Raton FL: CRC Press LLC. p. 1-6.
- 2002 Stone AC, The Postdoc Experience – Is There a Light at the End of the Tunnel? In *A Guide to Careers in Physical Anthropology*. Alan S. Ryan ed. Westport CT: Greenwood Publishing Group, Inc. p. 109-114.
- 2000 Stone AC, Ancient DNA from skeletal remains. In *Biological Anthropology of the Human Skeleton*, M. A. Katzenberg and S. Saunders, eds., New York: Wiley Liss, Inc. p. 343-363.
- 1999 Stone AC, Reconstructing human societies with ancient molecules. In *Who Were the First Americans?* Proceedings of the 58th Annual Biology Colloquium, Oregon State University, R. Bonnicksen ed., Corvallis, OR: Center for the Study of the First Americans.

Invited Presentations

- 2009 Introduction: Using comparative genomics to understand human evolution. In the symposium, What makes us human? Views from the genome. American Association of Physical Anthropologists meetings, Chicago.
- 2009 Genetic perspectives on the evolution of human diet. (with George Perry) American Association for the Advancement of Science meetings. Chicago, Illinois.
- 2007 Understanding past populations using ancient DNA: An Illinois case study. Illinois State Museum.
- 2007 *Mycobacterium tuberculosis*: an evolutionary perspective from ancient and modern DNA. (with Dr. Alicia Wilbur) University of Durham, Durham, United Kingdom.
- 2007 What ancient and modern DNA tells us about the evolution of *Mycobacterium tuberculosis*. (with Dr. Peter Small and Dr. Sebastien Gagneux). Morrison Institute lecture series, Stanford University
- 2005 Population structure and history in Peru, San Marcos University, Lima, Peru
- 2004 Genetic diversity in Peru, San Marcos University and Ricardo Palma University, Workshop in Lima, Peru.
- 2004 Genetic history in Peru, lecture at Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany
- 2001 Genetic perspectives on the peopling of the Americas, Anthropology symposium, “First Americans: peopling of the New World”, Houston Museum of Natural Science
- 2001 Neandertal DNA and modern human origins, The Albuquerque Archaeological Society.
- 2001 ADN Neandertal y los orígenes modernos de los humanos, San Marcos University, Catholic University and Universidad Ricardo Palma, Lima, Peru
- 2000 Y chromosome variation in Chimpanzees, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

- 2000 Ancient DNA and the Peopling of the Americas, San Marcos University and San Martin de Porres University, Lima, Peru
- 2000 Ancient DNA: results from the New World, Bioroma 2000 conference, Rome Italy
- 2000 Neandertal DNA and modern human origins, Hartnell College, Salinas, CA
- 2000 Ancient DNA and the Peopling of the Americas, Houston Museum of Natural Science, Houston, TX
- 1999 Community social structure and the colonization of the New World: a view from an Illinois bluff, "Perspectives on our ancestors: Old World and New World populations II" Organic Geochemistry Symposium, Geological Society of America conference, Denver, CO.
- 1999 Bones, genes and the construction of race, "Kennewick Man on Trial" Lecture series, Burke Museum of Natural History and Culture, Seattle, WA
- 1999 Social structure and the peopling of the New World: a view from an Illinois bluff, Lecture series on new techniques in archaeology, University of Cincinnati, Cincinnati, OH.
- 1999 Neandertal DNA and modern human origins, Taft Lecture in Anthropology, University of Cincinnati, Cincinnati, OH
- 1999 Postdoctoral opportunities in physical anthropology, Career Symposium at the American Association of Physical Anthropologists, Columbus, OH.
- 1997 Extremely old. Meet the Scientist Series, Columbus Center, the National Research Center for Marine Biotechnology Research and Education, Baltimore, Md.
- 1997 Reconstructing human societies with ancient molecules. 58th annual Biology Colloquium, "Who were the First Americans?" at the Oregon State University.
- 1993 Genetic affiliations and sexing of a Pre-Columbian Native American tribe. Ancient Human DNA course, Armed Forces Institute of Pathology.

Contributed Papers

- 2008 Perry GH, Redon R, Yang F, Verrelli BC, Stone AC, Lee C, A population genetics study of copy number variation in humans and chimpanzees. Society for Molecular Biology and Evolution meetings, Barcelona, Spain.
- 2008 Pfister LA, Rosenberg MS, and Stone AC, How do we Estimate Bacterial Mutation rates? Society for Molecular Biology and Evolution meetings, Barcelona, Spain.
- 2008 Pfister LA, Rosenberg MS, and Stone AC, Full genome comparisons of *Mycobacterium*: Insight into the origin of tuberculosis and leprosy, American Association of Physical Anthropologists meetings, Columbus, Ohio.
- 2007 Benn Torres J, Kittles R, and Stone AC, A comparative analysis of Y chromosome variability and admixture in Cape Verde, Sao Tome, and seven Anglophone Caribbean Islands. American Association of Physical Anthropologists meetings, Philadelphia, PA.
- 2007 Tito RY, Smith HF, Rubin de Celis V, Lizarraga BR, Stone AC, Alu insertion polymorphisms and mtDNA in Peruvian populations: implications for the genetic history and population structure of Peru. American Association of Physical Anthropologists meetings, Philadelphia, PA.
- 2006 Stone AC. Population history of Pan: a view from the Y chromosome, Society for Molecular Biology and Evolution meetings, Tempe, Arizona
- 2006 Perry GH, Dominy NJ, Claw K, Villanea FA, Iafrate AJ, Lee C, and Stone AC.

- Significance of amylase gene duplications in human and non-human primate evolution. The American Association of Physical Anthropologists meeting, Anchorage, Alaska
- 2006 Leonard ME, Buikstra JE, and Stone AC. *Mycobacterium tuberculosis* strains from the contact period in North America: Implications for the evolutionary history of TB. The American Association of Physical Anthropologists meeting, Anchorage, Alaska
- 2005 Cabana GS, Lewis CM and AC Stone, Inference of population history from DNA haplogroup frequencies using computer simulation modeling. American Association of Physical Anthropologists Meetings, Milwaukee, WI.
- 2005 Stone AC, Cabana GS, Tito R, Lopez PG, Ccahuana Quispe J, Lewis CM and B Lizarraga, Population structure and history in Peru. American Association of Physical Anthropologists Meetings, Milwaukee, WI
- 2005 Benn Torres J and AC Stone, MtDNA Diversity in Six West Indian Islands throughout the Anglophone Caribbean, American Association of Physical Anthropologists Meetings, Milwaukee, WI
- 2005 Perry GH and AC Stone, Evolution of dental formulas and tooth development genes in primates. American Association of Physical Anthropologists Meetings, Milwaukee, WI
- 2005 Stone AC, Salter LA, Perry GH, Trudeau E, and H Lin, Analysis of complete mtDNA sequences in Pan. Society of Molecular Biology and Evolution meetings, Auckland, New Zealand.
- 2005 Verrelli B, Lewis CM, and AC Stone, Contrasting evolutionary histories at human and chimpanzee G6PD and OPN1LW genes. Society of Molecular Biology and Evolution meetings, Auckland, New Zealand.
- 2004 Lewis CM and AC Stone, MtDNA diversity at the archaeological site of Chen Chen, Perú: Implication for Andean Genetic History, Society for American Archaeology meetings, Montreal, Canada.
- 2003 Stone AC, Salter LA, and Trudeau E, Analysis of complete mtDNA sequences in Pan, American Association of Physical Anthropologists Meetings, Tempe, AZ
- 2003 Wilbur AK, Feurstein J, Hurtado AM, Hill KR, and Stone AC, Variation in the vitamin D receptor and NRAMP1 loci in Aché and Avá of Paraguay: Implications for host susceptibility to tuberculosis, American Association of Physical Anthropologists Meetings, Tempe, AZ
- 2002 Stone AC, Benn J, Wilbur AK, Lin H, Lewis CM, Trudeau E, Feurstein J, and Hammer M, Chimpanzee population structure and history from Y chromosome and mtDNA data. Human Origins and Disease Conference, Cold Spring Harbor Laboratory, New York.
- 2002 Stone AC, Benn J, Wilbur AK, Lin H, Lewis CM, Trudeau E, Feurstein J, and Hammer M, Population structure and history of *Pan* from Y chromosome and mtDNA data. Society of Molecular Biology and Evolution meetings, Sorrento, Italy.
- 2002 Lewis CM, Tito R, Lizarraga B, and Stone AC, An Investigation of Genetic, Linguistic, and Geographical Distance in American Indians Using Multivariate and Phylogenetic Procedures: Contributions from Ancash, Perú and the Introduction of POML. The American Association of Physical Anthropologists, Buffalo, NY
- 2001 Stone AC, Lewis CM, Grutt J and Hammer M, *Pan troglodytes* and *Pan paniscus* diversity: results from the Y chromosome. The American Association of Physical

- Anthropologists, Kansas City, MO.
- 2000 Stone AC and Hammer M, Y chromosome variation in *Pan*, Human Origins Conference, Cold Spring Harbor Laboratory, New York.
- 1999 Stone AC, Bonner R and Hammer M, Y chromosome diversity in *Pan troglodytes*. The American Association of Physical Anthropologists, Columbus, OH.
- 1997 Stone AC and Stoneking M, Native American mtDNA diversity and history: insights from a prehistoric population. Human Evolution conference at Cold Spring Harbor Laboratory.
- 1997 Krings M, Stone A, Schmitz RW, Krainitzki H, Stoneking M and Pääbo S, Neandertal mtDNA sequences. Human Evolution conference at Cold Spring Harbor Laboratory.
- 1997 Stone AC and Stoneking M, Genetic analysis of prehistoric remains from Illinois. The 4th International Ancient DNA conference, Göttingen, Germany.
- 1997 Stone AC, Milner GR and Stoneking M, Organization and genetic structure of a prehistoric Oneota community. The American Association of Physical Anthropologists, St. Louis, MO.
- 1996 Stone AC and Stoneking M, MtDNA analysis of a prehistoric Native American community. The Society for Molecular Evolution and Biology Meetings, Tucson, AZ.
- 1995 Stone AC and Stoneking M, Prehistoric Amerindian mitochondrial DNA variation at the Norris Farms #36 cemetery. The 3rd International Ancient DNA Conference, Oxford, England.
- 1994 Stone AC and Stoneking M, Genetic analysis of a Pre-Columbian Amerindian population. The Xth European Meetings of the Paleopathology Association, Göttingen, Germany.
- 1994 Stone AC, Milner GR and Pääbo S, Sex determination of prehistoric human remains using DNA analysis. The American Association of Physical Anthropologists meeting, Denver, Colorado.
- 1993 Mitochondrial DNA analysis of the prehistoric Oneota. The 2nd International Ancient DNA Conference, Washington D.C.
- 1992 Stone AC and Stoneking M, Mitochondrial DNA analysis of a Midwestern cemetery. The American Anthropology Association meeting, San Francisco, CA.
- 1992 Mitochondrial DNA variation among the prehistoric Oneota. The American Association of Physical Anthropologists meetings, Las Vegas, NV.
- 1991 Stone AC and Stoneking M, Ancient DNA from a prehistoric Amerindian cemetery. The 1st International Ancient DNA Conference, Nottingham, England
- 1991 DNA from a prehistoric Oneota cemetery, Genetics Retreat at Pymatuning, the University of Pittsburgh, PA.

Posters

- 2009 Pfister LA, Nash LT, Rosenberg MS, and Stone AC, Influence of the Androgen Receptor Variation in Primate and Carnivore Female Social Dominance. American Association of Physical Anthropologists meetings, Chicago, IL

- 2008 Wilbur AK, Campbell TS, Pfister LA, Buikstra JE, and Stone AC, Mycobacterial Disease in the Pre-Columbian New and Old Worlds: A Phylogeographic Analysis. Society for Molecular Biology and Evolution meetings, Barcelona, Spain.
- 2008 Wilbur AK, Campbell TS, Buikstra JE, and Stone AC, Molecular diagnosis of ancient tuberculosis: Is it really necessary to screen for host DNA? American Association of Physical Anthropologists meetings, Columbus, Ohio.
- 2007 Pfister LA, Rosenberg MS, and Stone AC, Full genome comparisons of Mycobacterium: Insight into the origin of tuberculosis. Society of Molecular Biology and Evolution, Halifax, Canada
- 2007 Smith SE, Cabana GS, Rubin de Celis V, Contreras M, and Stone AC, Genetic Diversity of Native Peruvian Populations: mtDNA Analyses of Two Native Amazonian Populations. American Association of Physical Anthropologists, Philadelphia, PA.
- 2006 Perry G, Tchinda J, McGrath S, Tyler-Smith C, Scherer S, Eichler E, Stone A, and Lee C. Copy number variation hotspots in chimpanzees and humans. 11th International Congress of Human Genetics. Brisbane, Australia.
- 2006 Durand D, Maranville JC, Cabana GS, Hurtado AM, Hill K and Stone AC. Population history of the Ava of Paraguay: Insights from Y-chromosome, mitochondrial, and autosomal Alu markers. Society for Molecular Biology and Evolution meetings, Tempe, Arizona.
- 2006 Tito RY, Smith HF, Castillo L, Congrains A, Rubin de Celis Massa V, Lizarraga B, Stone AC. Alu insertion polymorphisms and mtDNA in Peruvian populations: implications for the genetic history and population structure of Peru. Society for Molecular Biology and Evolution meetings, Tempe, Arizona
- 2006 Claw KG, Perry GH, Dominy NJ, and Stone AC. Evolution of the amylase gene family in primates. Society for Molecular Biology and Evolution meetings, Tempe, Arizona
- 2006 Claw KG, Perry GH, Dominy NJ, and Stone AC. Evolution of the amylase gene family in primates. Society for the Advancement of Chicanos and Native Americans in Science, Tampa, Florida (prizewinner in the biological sciences category)
- 2006 Cabana GS, López PW, Cáceres A, Lizárraga B, and Stone AC. South American Population Genetic Structure and History: The Y Perspective. The American Association of Physical Anthropologists meeting, Anchorage, Alaska
- 2006 Claw KG, Lin H, and Stone AC. Chimpanzee mitochondrial DNA diversity. The American Association of Physical Anthropologists meeting, Anchorage, Alaska
- 2005 Wilbur A, Hurtado AM, Hill KR, and Stone AC, Variation in the MBL2 gene in native South Americans and its relationship to tuberculosis prevalence. American Association of Human Genetics meetings, Salt Lake City, Utah
- 2004 Benn Torres J, and Stone AC, Genetic Diversity in an urban population in West Africa: a preliminary analysis. American Association of Human Genetics meetings, Toronto, Canada
- 2004 Wilbur A, Salter L, Hurtado AM, Hill KR, and Stone AC, Native South American Genetic Variation and Its Relationship to Tuberculosis Prevalence: The Vitamin D Receptor and SLC11A, American Association of Human Genetics meetings, Toronto, Canada
- 2004 Clark VJ, Vander Molen J, Hammond M, Stone AC, and Di Rienzo A, Haplotype

- structure and recombination in *CAPN10*, a diabetes candidate gene, American Association of Human Genetics meetings, Toronto, Canada
- 2003 Lin HM, and Stone AC, Ancient DNA study of the San-Pao-Chu site, Tainan, Taiwan, American Association of Physical Anthropologists Meetings, Tempe, AZ
- 2001 Wilbur AK, Fuerstein JR, Hurtado AM and Stone AC, Involvement of vitamin D receptor and HLA loci in host resistance/susceptibility to tuberculosis in the Ache of Paraguay. The American Society of Human Genetics, San Diego, CA.
- 2001 Wilbur AK, Hurtado AM and Stone AC, Involvement of HLA loci in host resistance/susceptibility to tuberculosis in the Ache, a Native American population from Paraguay. The American Association of Physical Anthropologists, Kansas City, MO.
- 2001 Benn J, Smith J and Stone A, Y-chromosome STR analysis in *Pan troglodytes*. The American Association of Physical Anthropologists, Kansas City MO.
- 2000 Stone AC, Bonner MR, Lewis CM, and Hammer M, What subspecies are they? Mitochondrial DNA and Y chromosome diversity in captive *Pan troglodytes*. The American Association of Physical Anthropologists meeting, San Antonio, TX.
- 1999 Bonner MR, Stone AC, and Hammer M, High throughput genome screening with RF-DHPLC. Association of Biomolecular Resource Facilities meeting, Durham, NC
- 1998 Bonner MR, Stone AC, Taylor PD, and Hammer M, Increasing the throughput of DHPLC for detecting mutations in DNA. The American Society of Human Genetics Meetings, Denver, CO.
- 1998 Stone AC, Bonner MR, Ostrer H, and Hammer M, Higher Y chromosome diversity in chimpanzees compared to humans. Genes, Fossils and Human Behavior conference at the Newton Institute, Cambridge University
- 1998 Stone AC, Bonner R, Ostrer H and Hammer M, Y chromosome variation in *Pan troglodytes*. Society for Molecular Biology and Evolution meetings, Vancouver
- 1998 Stone AC, Bonner R, Ostrer H and Hammer M, Y chromosome variation in *Pan*. The American Association of Physical Anthropologists meeting, Salt Lake City
- 1996 Stone AC, Genetic analysis of a prehistoric Native American population. The American Association of Physical Anthropologists meeting, Durham, NC.
- 1996 Lorente JA, Lorente M, Stone AC, Alvarez JC, Stoneking M, Budowle B, Wilson MR Extraction and amplification strategies of ancient DNA from the royal bones of Queen Blanca de Navarra and the Prince of Viana. The Academy of Forensic Sciences meetings. Nashville, TN
- 1992 Stone AC and Stoneking M, Mitochondrial DNA analysis of a prehistoric Native American Community. International Conference on Molecular Evolution, Pennsylvania State University, PA

Service at ASU

- 2009- Graduate Director, SHESC
- 2008- President of the ASU chapter of Sigma Xi, the National Scientific Research Society
- 2007-2008 President-elect of the ASU chapter of Sigma Xi, the National Scientific Research Society
- 2007-2009 member, biomedical institutional review board (IRB).
- 2005-2008 member, committee of review, College of Liberal Arts and Sciences
- 2005-2008 Physical Anthropology subdiscipline head, member of the executive and graduate

committees

2005-2006 Search committee member, SHESC

2004-2006 Professional conduct representative, Department of Anthropology

2004-2005 Search committee member, Department of Anthropology

2004-2005 Personnel committee member, Department of Anthropology

2004-2005 Undergraduate committee member, Department of Anthropology

2004-2005 Faculty advisor to the undergraduate Anthropology Club

2004-2005 Search committee member, Department of Anthropology

2004-2005 Colloquia organizer, Department of Anthropology

2003-2005 Affirmative Action representative

2003-2004 Search committee member, Biodesign Institute and School of Life Sciences.

Service outside ASU

2009 Member of the Electorate Nominating Committee of the Section on Anthropology for the American Association for the Advancement of Science. (elected position).

2008- Review panel member for the Wenner-Gren Foundation for Anthropological Research

2005- Associate editor and member of the editorial board of Molecular Biology and Evolution

2005-2009 Associate editor and member of the editorial board of the American Journal of Physical Anthropology

2005-2006 Society of Molecular Biology and Evolution scientific program committee

2005 ad-hoc member NIH Genetic Variation and Evolution study section

2004-2006 American Association of Physical Anthropologists scientific program committee

2004-2006 Associate editor and member of the editorial board of the Journal of Human Evolution.

2003-2005 Advisory group member for the American Association of Physical Anthropologists Newsletter

2003 Review panel for Human Origins (HOMINID): Moving in New Directions, National Science Foundation.

2002-2003 Maxwell Museum Association Board Member

1999-2003 Graduate Committee Member and graduate advisor for the biological anthropology subfield, Department of Anthropology, University of New Mexico

2002 Planning Workshop on Relating Genetic Variation to Health and Disease, National Institutes of Health, August 8-9, Bethesda, MD.

2002 Beyond the beginning: The future of genomics II planning workshop, National Institutes of Health, Nov. 18-20, Airlie, VA.

2000 Primate Evolution Biomaterials Resource Planning Committee, National Science Foundation, Washington D.C.

1999 Undergraduate Committee Member and undergraduate advisor for the biological anthropology subfield, Department of Anthropology, University of New Mexico

Archaeological Field Experience

- 1991 2 months. Member of archaeological field crew. San Luis de Talimali Mission. Director: Clark Larsen
- 1990 3 months. Member of archaeological field crew for Complete Archaeological Services Associates. Field Crew Chief: Roger Walkenhorst.
- 1989 2 months. Member of archaeological field crew, Dunlap-Salazar site, Lincoln, NM. Director: Dr. Tom Rocek.
- 1988 5 weeks. Student on archaeological field school, Copan, Honduras. Director: Dr. William Fash.
- 1988 1 month. Volunteer for the park archaeologist. Grand Canyon National Park, AZ.

Postdoctoral Fellows

Graciela Cabana (2003-2006, currently assistant professor, U. Tennessee), Alicia Wilbur (2008-2009, currently research scientist, Washington National Primate Research Center)

Current Graduate Students (committee chair)

Luz-Andrea Pfister (SHESC), Joanna Malukiewicz (SOLS)

Past Graduate Students (committee chair) and their current positions

Jada Benn (Ph.D. 2006, UNM)	assistant professor, Notre Dame University
Mary Leonard (MA 2006, ASU)	analyst, Bioanalytical Systems, Inc
Cecil Lewis (Ph.D. 2005, UNM)	assistant professor, University of Oklahoma
Hsiuman Lin (Ph.D. 2009, UNM)	research scientist, National Museum of Taiwan
George Perry (Ph.D. 2008, ASU)	postdoctoral fellow, University of Chicago
Jamie Smith (MA 2002, UNM)	epidemiologist, public health Dept., State of Arizona
Heather Smith (Ph.D. 2008, ASU)	assistant professor, Midwestern University
Alicia Wilbur (Ph.D. 2005, UNM)	research scientist, Washington National Primate Research Center

Graduate Students (committee member)

Romona Flatz (SOLS), Daryn Stover (SOLS), Erica Tassone (SOLS), Amanda Van Steelandt (SHESC)

Past Graduate Students (committee member)

E. Ann Carson (Ph.D. 2006, UNM), Anne Fischer (Ph.D. 2006, Max Planck Institute for Evolutionary Anthropology), Katarzyna Miska (Ph.D. 2002)

Membership in Professional Organizations

American Association of Physical Anthropologists, American Association for the Advancement of Science, Sigma Xi, The Scientific Research Society, Society for Molecular Biology and Evolution, The American Society of Human Genetics, The American Association of Anthropological Genetics.

References

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