

CURRICULUM VITAE

Shawn W. Carlyle
University of Utah
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Education

2003 Ph. D., Anthropology, University of Utah, Salt Lake City.
2000 B.A., History, University of Utah, Salt Lake City.
1990 B.S., Anthropology, University of Utah, Salt Lake City.

Professional Interests

US Southwest prehistory, population structure of the ancient US Southwest, evolutionary genetics, molecular evolution, paleoanthropology, Native American social structure and religion, museum science.

Grants

2003 National Science Foundation Grant, (\$118,000)
"Molecular Analyses of the Peabody Basketmaker Collection and their Implications for Anasazi Origins" PI: Joan B Coltrain, CO-PI: Shawn W Carlyle

1998 National Science Foundation, Dissertation Improvement Grant (\$12,500)
"MtDNA Analysis of the Anasazi (Ancestral Pueblo)"
PI: James F O'Connell, CO-PI: Shawn W Carlyle

1993 University of Utah Graduate Research Fellowship
1992 University of Utah Graduate Research Fellowship

Contributed Papers

LeBlanc, SA, LS Cobb-Kreisman, BM Kemp, FE Smiley, SW Carlyle, AN Dhody, and T Benjamin
2007 Quids and aprons: Ancient DNA from artifacts from the American Southwest. *Journal of Field Archaeology* **32**(2): 161-175.

Brenner-Coltrain, J, JC Janetski, and SW Carlyle
2007 The stable and radio-isotope chemistry of Western Basketmaker burials: Implications for early Puebloan diets. *American Antiquity* **72**(2): 301-321.

- Brenner-Coltrain, J, JC Janetski, and SW Carlyle
2006 The stable and radio-isotope chemistry of Eastern Basketmaker and Pueblo groups in the Four Corners region of the American Southwest. In: Staller, JE, RH Tykot, and BF Benz, editors. *Histories of Maize: Multidisciplinary Approaches to the Prehistory, Linguistics, Biogeography, Domestication, and Evolution of Maize*, pp. 275-287. New York: Academic Press.
- Carlyle, SW
2005 Discerning the origins of the Anasazi with mitochondrial DNA haplogroups. In: Reed DM, editor. *Biomolecular Archaeology: Genetic Approaches to Reconstructing the Past*. Center for Archaeological Investigations, Occasional Paper **32**: 93-127. Carbondale: Southern Illinois University Press.
- O'Rourke, DH, MG Hayes, and SW Carlyle
2005 The consent process and aDNA research: Contrasting approaches in North America. In: Turner TR, editor. *Biological Anthropology and Ethics*, pp. 231-240. Albany: State University of New York Press.
- O'Rourke, DH, MG Hayes, and SW Carlyle
2000 Ancient DNA studies in physical anthropology. *Annual Review of Anthropology* **29**: 217-242.
- Carlyle, SW, RL Parr, DH O'Rourke, and MG Hayes
2000 Context of maternal lineages in the greater Southwest. *American Journal of Physical Anthropology* **113**: 85-101.
- O'Rourke, DH, MG Hayes, and SW Carlyle
2000 Spatial and temporal stability of mtDNA haplogroup frequencies in Native North Americans. *Human Biology* **72**: 15-34.
- O'Rourke, DH, RL Parr, and SW Carlyle
1999 Molecular genetic variation in prehistoric inhabitants of the eastern Great Basin. In: BE Hemphill and CS Larsen (eds.): *Understanding Prehistoric Lifeways in the Great Basin Wetlands: Bioarchaeological Reconstruction and Interpretation*. University of Utah Press, Salt Lake City, pp. 84-102.
- Parr, RL, SW Carlyle, and DH O'Rourke
1996 Ancient DNA analysis of Fremont Amerindians of the Great Salt Lake Wetlands. *American Journal of Physical Anthropology* **99**: 507-518.

Contributed Posters, Presentations, and Workshops

Harrod, RP, DL Martin, and SW Carlyle

2011 Taphonomy after the fact: Violence, Sex and Ritual. Poster presented at the 76th Annual Meeting of the Society for American Anthropology. Sacramento, California, March 30-April 13.

Coltrain, JB, J Janetski, and SW Carlyle

2005 Stable and radio-isotope chemistry of Basketmaker and Puebloan groups in Southwestern Colorado: Implications for Anasazi diets, origins and abandonments. Paper presented at the 70th Annual Meeting of the Society for American Anthropology. Salt Lake City, Utah, March.

Carlyle, SW, L Staten, and C Quinton

2005 Utah's Native Cultures Workshop: 11,000 Years of Change and Continuity. Museum of Natural History, Salt Lake City. April 30 and May 7.

This two-day workshop was conceived to prepare 4th grade instructors to teach and meet the *Utah State Core Curriculum* for social science and science. The first day consisted of lectures, museum collection-room tours and project demonstrations. The second day was spent at Fremont State Park in central Utah, where discussions and projects centered around prehistoric Fremont lifeways.

O'Rourke, DH, MG Hayes, and SW Carlyle

2001 Intraspecific population genetics: Population structure and patterned genetic variation. Paper presented at the 100th Annual Meeting of the American Anthropological Association. Washington, D.C., November 28-December 2.

Carlyle, SW and DH O'Rourke

2001 MtDNA variation among the Western Anasazi. Poster presented at the 71st Annual Meeting of the American Association of Physical Anthropologists, Kansas City, KS, March.

Carlyle, SW, and DH O'Rourke

2000 Anasazi/Pueblo affinity. Paper given at the 99th Annual Meeting of the American Anthropological Association. San Francisco, CA., November 15-19.

Carlyle, SW, RL Parr, and DH O'Rourke

2000 Anasazi/Fremont interaction in southeast Utah: A molecular/genetic view. Paper given at the 27th Great Basin Conference. Ogden, UT., October 5-7.

- Carlyle, SW, MG Hayes, and DH O'Rourke
 1999 Patterns of regional mtDNA variation in the ancient Americas.
 Poster presented at the Clovis and Beyond Conference. Santa Fe, NM.
 October 29-31.
- Carlyle, SW
 1998 Lineage extinction among prehistoric Native American populations
 of the United States Southwest. Paper given at the 97th Annual Meeting
 of the American Anthropological Association. Philadelphia, PA.,
 December 2-6.
- Carlyle, SW, DH O'Rourke, and MG Hayes
 1997 Maternal lineages in the United States Southwest through time.
 Poster presented at the 66th Annual Meeting of the American Association
 of Physical Anthropologists. St. Louis, MO., April 1-5.
- Carlyle, SW, DH O'Rourke, and RL Parr
 1997 Ancient DNA analysis in the eastern Great Basin: The northern
 Utah Fremont and their neighbors. Paper given at the 66th Annual
 Meeting of the American Association of Physical Anthropologists. St.
 Louis, MO., April 4th.
- Carlyle, SW
 1997 Potential of ancient DNA in the United States Southwest. Paper
 given at the 1997 Pecos Conference. Chaco Canyon National Park, NM.,
 August 15.
- Carlyle, SW, RL Parr, and DH O'Rourke
 1996 Ancient maternal lineages in the prehistoric Southwest. Poster
 presented at the Southwest Symposium: Regional Interaction in the
 Prehistoric Southwest. Arizona State University, Tempe, AZ., February 9-
 10.
- Parr, RL, SW Carlyle, and DH O'Rourke
 1993 MtDNA variation in the prehistoric Great Basin and American
 Southwest. Poster presented at the Second International Ancient DNA
 Conference. Smithsonian Institution, Washington, D.C., October 7-9.

Laboratory Experience

1988-1991 **University of Utah, Department of Physiology**

1990-1991 **Topical Testing, Inc.**

Under the supervision of Dr. Robert H. Tuckett, I studied the effects of
 environmental pollutants upon trigeminal neurons cultured from rat brain cells.
 Labwork included tissue culture techniques and clean-room procedures. My work
 contributed to one publication (Eugenin et al., 1992).

1992-1993 **University of Utah, Department of Psychology**

Under the supervision of Dr. Ray Kesner, I studied the effects of PCP upon the motor function and memory of laboratory rats.

1991-2005

University of Utah, Department of Anthropology

In 1991, I began work with ancient mitochondrial DNA within the laboratory of biological anthropology (LBA). Our subsequent publications were among the first to present restriction fragment length polymorphism data on ancient Anasazi and Fremont individuals. Work within the LBA provided the basis for my Ph D thesis.

Collegiate Teaching Experience (University of Utah)

Anthropology 1000: Introduction to Anthropology: A Four-Field Approach

A general introduction to all four fields of anthropology (archaeology, biological anthropology, cultural anthropology, and behavioral ecology) designed for non-anthropology majors.

Anthropology 1020: Human Origins, Evolution & Diversity

An introduction to physical or biological anthropology. Covers heredity, molecular biology, modern primate diversity, macro and microevolution, modern human diversity, and human evolution.

Anthropology 4261/6261: Paleoanthropology

An upper division course focusing on the hominid fossil record. Includes taphonomy, phylogenetic analysis, paleo-anatomy, Miocene apes, and a fossil lab.

Anthropology 3111/6111: Rise of the First Nations of Eastern North America

An upper division cultural anthropology course that deals with the effects of European civilization upon the Native American Nations of the Eastern U.S.

Anthropology 3211/5211: Biology of Native Americans

An upper division biological anthropology course designed to provide an introduction and overview of prehistoric, proto-historic, and modern Native American biological variation. Includes topics such as the colonization of the New World, paleopathology, and the use of ancient DNA to infer past demographic trends. Course gives students experience with phenotypic and well as genotypic variation.

Anthropology 3969: Prehistory of the United States Southwest

An upper division archaeology course dealing with Paleoindian, Archaic, and Formative cultures of the US SW prior to contact with Europeans.

Collegiate Teaching Experience (Brigham Young University)

Anthropology 300: Biological Anthropology

A lower division class focusing on inheritance, molecular biology, micro and macroevolution, and the fossil evidence as it pertains to the evolution of fully modern humans.