

MARCUS JOHN HAMILTON, B.Sc., M.S., Ph.D.

Departments of Biology and Anthropology
University of New Mexico
Albuquerque, NM, 87131 USA

Santa Fe Institute
1399 Hyde Park Road
Santa Fe, NM 87501 USA

Contact address: Department of Biology, University of New Mexico, Albuquerque, NM 87131
Email: marcusj@unm.edu (preferred contact)
Homepage: <http://www.unm.edu/~marcusj/home.htm>

CURRENT POSITIONS

- 2010-present National Science Foundation/Rockefeller Foundation Postdoctoral Fellow,
Santa Fe Institute (SFI)
- 2009-present National Science Foundation, Postdoctoral Fellow, *Program in Interdisciplinary
Biological and Biomedical Sciences*. (PIBBS) Dept. of Biology, University of
New Mexico (UNM).
- 2008-present Adjunct Assistant Professor, Dept. of Anthropology, UNM.

ACADEMIC HISTORY

- 2002-2008 Ph.D. with Honors, Dept. of Anthropology, UNM. Dissertation: *Quantifying
Clovis Dynamics: Confronting Theory with Models and Data Across Scales*.
- 2000-2002 Master of Science (M.S.) with Distinction, Dept. of Anthropology, UNM.
- 1995-1998 Bachelor of Science (B.Sc.) with 1st Class Honours and the B.Sc. dissertation
award, Institute of Archaeology. University College London, UK. Dissertation:
*Broken Bison Bones: A Faunal Analysis of 41LUI Area 10, Lubbock Lake
Landmark, Texas, USA*.

VISITING POSITIONS

- 2007-2008 Visiting scholar, Institute of Ecology, National University of Mexico (UNAM),
Mexico City, MX. Host: Gerardo Ceballos.
- 2007 Visiting scholar, Centre for the Evolution of Cultural Diversity, Institute of
Archaeology, University College London, UK (October). Host: James Steele.

FELLOWSHIPS AND FUNDING (~\$100,000)

- 2009-present *NSF Research Collaboration Network grant* DEB 0541625 (PI's F.A. Smith, S.K. Lyons, and M. Ernest): Integrative Macroecological Pattern and Process Across Scales (IMPPS), \$68,000 + benefits.
- 2009 *Howard Hughes Medical Institute grant* 1T32EB009414-01 (PI's J.H. Brown and F.A. Smith), \$2,000 (teaching supplement).
- 2008 PIBBS travel grant to present at the 73rd Annual Society of American Archaeology (SAA) Meetings, Vancouver, BC, \$1,000.
- 2007 Arizona Archaeological and Historical Society research grant, \$250.
- 2005-2006 *NSF Fellowship in Ecological Complexity, Biocomplexity grant* DEB 0083422 (PI's J.H. Brown, B.T. Milne, and G.B. West), \$15,000 + tuition.
- 2004-2005 *Hibben Foundation Senior Fellowship*, Dept. of Anthropology, UNM, \$15,000 + tuition.
- 2005 Student Research Allocation Committee (SRAC), UNM award for costs associated with dissertation data collection and presenting at the 70th Annual Society of American Archaeology (SAA) Meetings, Salt Lake City, UT, \$340.
- 2004 SRAC, UNM award for presenting at the 69th SAAs, Montreal, Canada, \$500.
- 2000-2003 *Lewis R. Binford Fellowship*, Dept. of Anthropology, UNM, \$30,000 + tuition.
- 2001 *Tinker Foundation* field research grant from the Latin American and Iberian Institute, UNM, for archaeological survey in northern Mexico, \$1,500.
- 1995+1996 Undergraduate Field Research Grants, Institute of Archaeology, UCL, \$2,000.

PEER-REVIEWED PUBLICATIONS

- In review Smith, F.A., A.G. Boyer, J. H. Brown, D. P. Costa, T. Dayan, S. K. M. Ernest, A.R. Evans, M. Fortelius, J. L. Gittleman, **M.J. Hamilton**, *et al* (+10 coauthors). Maximum body size evolution in mammals. *Science*.
- In review Evans, A.R., D.O. Jones, A.G. Boyer, J. H. Brown, D. P. Costa, T. Dayan, S. K. M. Ernest, M. Fortelius, J. L. Gittleman, **M.J. Hamilton**, *et al* (+10 coauthors). Rapid evolutionary rates over geological timescales in mammals. *Nature*.
- In review Walker, R.S. and **M.J. Hamilton**. The dynamics of social complexity in the Bantu and Austronesian population expansions. *Proceedings of the Royal Society: Biological Sciences*.

- In review DeLong, J.P., O. Burger, and **M.J. Hamilton**. Current demographics suggest that future energy supplies will be inadequate to slow human population growth. *PLoS ONE*.
- In review Stephens, P. R. J.H. Brown, A. Boyer, T. Dyan, M. Fortaleus, **M.J. Hamilton**, et al. (+9 more coauthors). Understanding the relationship between evolutionary rate and phylogenetic signal: the KT extinction event as a natural experiment in mammalian body size evolution. *Proceedings of the Royal Society: Biological Sciences*.
- In review **Hamilton, M.J.**, A.D. Davidson, R.M. Sibly, and J.H. Brown. Universal scaling of production rates across mammalian lineages. *Proceedings of the Royal Society: Biological Sciences*.
- In review Burnside, B., L. Bettencourt, O. Burger, **M.J. Hamilton**, M.E. Moses, and J.H. Brown. Human macroecology: Linking pattern to process in big-picture human ecology. *Biological Reviews*.
- In review Brown, J.H., W. Burnside, A.D. Davidson, J.P. DeLong, **M.J. Hamilton**, N. Mercado Silva, J. Okie, W. Woodruff, and W. Zuo. Ecological limits to economic growth. *BioScience*.
- In review **Hamilton, M.J.** and B. Buchanan. Archaeological support for the triphasic expansion of modern humans across northeastern Eurasia and the post-LGM colonization of the Americas. *PLoS ONE*.
- 2010 Collard, M., B. Buchanan, **M.J. Hamilton**, and M. O'Brien. Spatiotemporal dynamics of the Clovis-Folsom transition. *Journal of Archaeological Science* (in press).
- 2010 Smith, F.A ., **M.J., Hamilton**, and J.H. Brown. On the size-selectivity of late Pleistocene megafaunal extinctions (invited commentary). *Evolutionary Ecology Research* (in press).
- 2010 Burger, O., R.S. Walker, and **M.J. Hamilton**. Lifetime reproductive effort in humans. *Proceedings of the Royal Society B: Biological Sciences* **277(1682)**: 773-777.
- 2009 **Hamilton, M.J.** and B. Buchanan. Archaeological and paleobiological problems with the case for the Younger Dryas extraterrestrial impact event (invited commentary). *Journal of Cosmology* **2**: 415-417.
- 2009 **Hamilton, M.J.**, B.B. Huckell, and M.S. Shackley. Clovis obsidian sources in the central Rio Grande Rift region of New Mexico. *Current Research in the Pleistocene* **26**: 62-65.

- 2009 **Hamilton, M.J.**, O. Burger, J. DeLong, R.S. Walker, M.E. Moses, and J.H. Brown. Population stability, cooperation and the invasibility of the human species. *Proceedings of the National Academy of Sciences, USA* **106(30)**: 12255-12260 (track 1).
- 2009 Davidson, A.D, **M.J. Hamilton**, A.D. Boyer, J.H. Brown, and G. Ceballos. Multiple ecological pathways to extinction in mammals. *Proceedings of the National Academy of Sciences, USA* **106(26)**: 1702-1705 (track 2).
- 2009 Buchanan, B. and **M.J. Hamilton**. A formal test of the origin of variation in North American Early Paleoindian points. *American Antiquity* **74(2)**: 279-298.
- 2009 Holliday, V.T., B.B. Huckell, R.H. Weber, **M.J. Hamilton**, W.R. Reitze, and J.H. Mayer. Geoarchaeology of the Mockingbird Gap (Clovis) Site, Jornada del Muerto, New Mexico. *Geoarchaeology* **24(3)**: 348-370.
- 2009 **Hamilton, M.J.** and B. Buchanan. The accumulation of stochastic copying errors causes drift in culturally transmitted technologies. *Journal of Anthropological Archaeology* **28**: 55-69.
- 2008 Huckell, B.B., V.T. Holliday, **M.J. Hamilton**, C. Sinkovec, C. Merriman, M. S. Shackley, and R.H. Weber. The Mockingbird Gap Clovis Site: 2007 investigations. *Current Research in the Pleistocene* **25**: 95-97.
- 2008 Walker, R.S., M. Gurven, O. Burger, and **M.J. Hamilton**. The trade-off between number and size of offspring in humans and other primates. *Proceedings of the Royal Society B: Biological Sciences* **275(1636)**: 827-833.
- 2008 Walker, R.S. and **M.J. Hamilton**. Life history consequences of density-dependence and the evolution of human body size. *Current Anthropology* **49(1)**: 115-122.
- 2007 **Hamilton, M.J.** and B. Buchanan. Spatial gradients in Clovis-age radiocarbon dates across North America suggest rapid colonization from the north. *Proceedings of the National Academy of Sciences, USA*, **104(40)**: 15629-15634 (track 2).
- 2007 **Hamilton, M.J.**, B.T. Milne, R.S. Walker, O. Burger, and J.H. Brown. The complex structure of hunter-gatherer social networks. *Proceedings of the Royal Society B: Biological Sciences* **274 (1622)**: 2195-2202.
- 2007 **Hamilton, M.J.**, B.T. Milne, R.S. Walker and J.H. Brown. Nonlinear scaling of space use in human hunter-gatherers. *Proceedings of the National Academy of Sciences, USA* **104(11)**: 4765-4769 (track 1).

- 2005 Burger, O., **M.J. Hamilton**, and R.S. Walker. The prey as patch model: Optimal handling of resources with diminishing returns. *Journal of Archaeological Science* **32(8)**: 1147-1158.
- 2003 Huckell, B.B., J.D. Kilby, and **M.J. Hamilton**. 2002 excavations at Boca Negra Folsom site, north-central New Mexico. *Current Research in the Pleistocene* **20**: 33-34.
- 2002 Huckell, B.B., J.D. Kilby, B. Buchanan, **M.J. Hamilton** and S. Ruth. 2001 excavations at Boca Negra Folsom site, north-central New Mexico. *Current Research in the Pleistocene* **19**: 39-40.

SERVICE

- Reviewer *American Antiquity, Animal Behavior, Biology Letters, Current Anthropology, Journal of Archaeological Science, Journal of Statistical Mechanics, PNAS, Science, Social Networks.*

OTHER MISCELLANEOUS WRITING

- 2008 Huckell, B.B., V.T. Holliday, D.S. Amick, P.D. LeTourneau, M.E. Hill, C.V. Haynes, and **M.J. Hamilton**. 2008. Remembering Robert H. Weber, 1919-2008. *Mammoth Trumpet* **23(3)**: 8-9.
- 2008 **Hamilton, M.J.** *Quantifying Clovis Dynamics: Confronting Theory with Models and Data Across Scales*. Unpublished PhD dissertation, Dept. of Anthropology, UNM.
- 2005 **Hamilton, M.J.**, R. Holdaway, and S. Litvin. Statistical self-similarity in the structural organization of human forager populations. *Collected Papers of the Santa Fe Institute Complex Systems Summer School, 2005*.
- 2002 **Hamilton, M.J.** and M. Gill. Excavation program at 41LU1 Area 10 for the 1998 field season. In: E.J. Johnson (Ed.). *Holocene Investigations at the Lubbock Lake Landmark, Texas, 1991-2000*. Lubbock Lake Landmark Quaternary Research Center Series No. 11, Museum of Texas Tech University.
- 2002 **Hamilton, M.J.** Excavation program at 41LU1 Area 5 for the 1998 field season. In: E.J. Johnson (Ed.). *Holocene Investigations at the Lubbock Lake Landmark, Texas, 1991-2000*. Lubbock Lake Landmark Quaternary Research Center Series No. 11, Museum of Texas Tech University.
- 2002 Buchanan, B. and **M.J. Hamilton**. Excavation program at 41LU1 Area 5 for the 2000 field season at the Lubbock Lake Landmark. In: E.J. Johnson (Ed.). *Holocene Investigations at the Lubbock Lake Landmark, Texas, 1991-2000*.

Lubbock Lake Landmark Quaternary Research Center Series No. 11, Museum of Texas Tech University.

- 1998 **Hamilton, M.J.** *Broken Bison Bones: A Faunal Analysis of 41LUI Area 10, Lubbock Lake Landmark, Texas, USA.* Unpublished undergraduate dissertation, Institute of Archaeology, UCL.
- 1994 **Hamilton, M.J.** Glass Artifact Analysis of the Lamb County Survey. Chapter in: E.J. Johnson (Ed.). *Wastewater Treatment Plant Survey, Lamb County, Texas.* Lubbock Lake Landmark Quaternary Research Center Series, Museum of Texas Tech University.

TEACHING AND RESEARCH POSITIONS

- 2009 Class Instructor: Section on *Human Macroecology and Metabolic Ecology*, PIBBS. (Fall)
- 2007 Teaching Assistant: *UNM Archaeology Field School*. (Summer)
- 2005-2006 Research Assistant: National Science Foundation (NSF) *Research Fellow in Ecological Complexity*, Dept. of Biology, UNM.
- 2004 Class Instructor: *Quantitative Methods in Anthropology* (ANTH 372/572). (Fall)
- 2004 Teaching Assistant: Museum of Southwestern Biology, Dept. of Biology, UNM. (Spring)
- 2003 Research Associate: Museum of Southwestern Biology, Dept. of Biology, UNM. (Fall)
- 2003 Teaching Assistant: *Human Evolution Laboratory* (ANTH 151L). (Spring)
- 2003 Teaching Assistant: *Evolution and Human Emergence* (ANTH 150). (Spring)
- 2002 Teaching Assistant: *Quantitative Methods in Anthropology* (ANTH 372/572). (Fall)
- 2002 Teaching Assistant: *UNM Archaeology Field School*. (Summer)
- 2002 Teaching Assistant: *World Archaeology* (ANTH 220). (Spring)
- 2002 Teaching Assistant: *Mesoamerican Prehistory* (ANTH 322). (Spring)
- 2001 Teaching Assistant: *Archaeological Methods and Theory Laboratory* (ANTH 121L). (Fall)

- 2001 Teaching Assistant: *UNM Archaeology Field School*. (Summer)
- 2001 Teaching Assistant: *Introduction to Anthropology* (ANTH 101). (Spring)
- 2000 Teaching Assistant: *Introduction to Anthropology* (ANTH 101). (Fall)
- 1994-2000 Research Associate: Department of Anthropology, Museum of Texas Tech University, Lubbock, Texas.

ACADEMIC HONORS

- 2008 Distinction in the Ph.D. dissertation defense, Dept. of Anthropology, UNM.
- 2006 Elected *Phi Kappa Phi* academic honors society.
- 2005 SFI Complex Systems Summer School.
- 2004 *Brolio-Basehart Award* for the leading paper contributions from the Dept. of Anthropology, UNM to the SAA meetings.
- 2002 *High Pass* (distinction) in the comprehensive examinations for the Master's of Science degree, Dept. of Anthropology, UNM.
- 2001 *Brolio-Basehart Award* for the leading paper contributions from the Dept. of Anthropology, UNM to the SAA meetings.
- 1998 1st Class Hons. in the Bachelor of Science degree, Institute of Archaeology, UCL.
- 1998 *Roy Hodson Undergraduate Dissertation Award*, Institute of Archaeology, UCL.

WORKING GROUPS AND WORKSHOPS

- 2011 Giuggioli, L. *Interaction and Decision Making in Animal Space Use and Navigation*. Bristol Centre for Complexity Sciences, University of Bristol, U.K., January 20-21st.
- 2010 Smith, F.A., K. Lyons and M. Ernest (organizers), NSF IMPPS Working Group. Hotel Santa Fe, Santa Fe, NM, May 7-9th.
- 2010 Storch, D. and A. Sizling (organizers), *Universal Patterns of Diversity Across the Sciences II*. Center for Theoretical Study, Charles University, Prague, Czech Republic, May 9-11th.
- 2009 Smith, F.A., K. Lyons and M. Ernest (organizers), NSF IMPPS Working Group. Hotel Santa Fe, Santa Fe, NM, Nov 12-16th.

- 2009 Nekola, J. (organizer), *Universal Patterns of Diversity Across the Sciences I*. Santa Fe Institute, NM, Feb 23-26th.

ORGANIZED SYMPOSIA

- 2004 Buchanan B.B., **M.J. Hamilton** (organizers), and J.D. Kilby (chair). *The Clovis-Age Continent: Early Paleoindian Foragers in North America*. Held at the 69th annual meetings of the Society for American Archaeology (SAA), Montreal, QC.

INVITED PRESENTATIONS

- 2010 **Hamilton, M.J.** *Scaling Principles in Human Systems*. Arizona State University, Tempe, AZ (t.b.a.).
- 2010 **Hamilton, M.J.** *Origins of Human Subsistence: The Macroecology of Complex Human Systems*. Max Planck Institute for Evolutionary Anthropology, Leipzig, February 10th.
- 2009 **Hamilton, M.J.** *Scaling Energy Use in Human Systems from Hunter-Gatherers to Nation States*. Ecological Society of America, Albuquerque, NM, August 4th.
- 2009 **Hamilton, M.J.** and B. Buchanan. *Cultural Transmission as a Stochastic Process*. 74th Annual Meetings of the SAA, Atlanta, GA, April 24th.
- 2008 **Hamilton, M.J.** *Scaling the Metabolism of Human Systems from Hunter-Gatherers to Nation States*. Consortium of the Americas for Interdisciplinary Science, Dept. of Physics, UNM, October 20th.
- 2008 **Hamilton, M.J.** *Human Macroecology: Scaling the Metabolism of Human Systems from Hunter-Gatherers to Nation States*. SFI, Santa Fe, NM, March 3rd.
- 2008 **Hamilton, M.J.** *Scaling the Metabolism of Human Socio-Economies from Hunter-Gatherers to Nation States*. 83rd AAAS-SWARM meetings, Albuquerque, NM, April 10th.
- 2008 **Hamilton, M.J.** *Energy and Information Flows Form Complex Networks in Hunter-Gatherer Social Systems*. Organized symposium, Connected Pasts: Current Network Approaches in Archaeology. 73rd Annual Meetings of the SAA, Vancouver, BC, March 29th.
- 2007 **Hamilton, M.J.** *Quantifying Hunter-Gatherer Space Use: Macroecology and Metabolic Scaling Theory*. Dept. of Anthropology, University College London, UK, October 16th.
- 2007 **Hamilton, M.J.** *Metabolic Scaling and Social Network Structure: The Fractal Organization of Hunter-Gatherer Populations*. NSF sponsored symposium at the

American Association of Physical Anthropologists meetings, Philadelphia, PA, March 30th.

- 2006 **Hamilton, M.J.** *Scaling of Energy Use, Population Size, and Structure in Human Subsistence Populations*. Paper presented at the Human Evolutionary Behavior Society, UNM, April 14th.

OTHER PRESENTATIONS

- 2010 Davidson, A. D., **M. J. Hamilton**, A. G. Boyer, J. H. Brown, G. Ceballos. *Multiple Ecological Pathways to Extinction in Terrestrial and Marine Mammals*. Society for Conservation Biology, Edmonton, Alberta, Canada, July 7th.
- 2009 Baker, J., K. Hill, A.M. Hurtado, M. A. Frey, R.S. Walker, and **M. J. Hamilton**. *An Evaluation of the Utility of Anthropological Demographic Studies for Estimating Hunter-Gatherer Populations and Implications for the Measurement of Health Disparities*. 26th IUSSP International Population Conference, Marrakech, Morocco, October 2nd.
- 2009 **Hamilton, M.J.** *Scaling Complex Human Systems*. SFI workshop, Santa Fe, NM, February 23rd.
- 2009 Ceballos, G., A.D. Davidson, **M.J. Hamilton**, A. Boyer, and J.H. Brown. *Multiple Ecological Pathways to Extinction in Mammals*. Society for Conservation Biology, Beijing, China, July 17th.
- 2009 Davidson, A.D., **M.J. Hamilton**, A. Boyer, J.H. Brown, and G. Ceballos. *Ecological Pathways to Extinction in Mammals*. International Society for Mammals, Mendoza, Argentina, February 22nd.
- 2009 Davidson, A.D., **M.J. Hamilton**, A. Boyer, J.H. Brown, and G. Ceballos. *Ecological Pathways to Extinction in Mammals*. International Biogeography Society, Merida, MX, January 9th.
- 2008 Walker, R.S., M. Gurven, O. Burger, and **M.J. Hamilton**. *The Trade-Off Between Number and Size of Offspring in Humans and Other Primates*. 83rd AAAS-SWARM meetings, Albuquerque, NM, April 10th.
- 2007 Buchanan, B. and **M.J. Hamilton**. *A Formal Test of the Origin of Clovis Projectile Point Variation Across North America*. Durham University, UK.
- 2005 **Hamilton, M.J.** *Cultural Innovations and Phenotypic Adaptations in Stochastic Environments: Some Quantitative Insights into the Evolutionary Dynamics of Foraging Societies*. 1st annual meeting of the Society for Anthropological Sciences (SASci) in Santa Fe, NM.

- 2005 **Hamilton, M.J.** and J.L. Boone. *Epidemiological Approaches to Cultural Change: Evolutionary Models of Transmission, Fitness, and Demography*. 70th annual meetings of the SAA in Salt Lake City, UT.
- 2005 Burger, O., **M.J. Hamilton**, M.E. Moses, and J.H. Brown. *Using Allometry to Investigate Energetic Constraints on Human Demography*. 70th annual meetings of the SAA in Salt Lake City, UT.
- 2005 **Hamilton, M.J.**, R. Holdaway, and S. Litvin. *Statistical Self-Similarity in the Structural Organization of Human Hunter-Gatherer Populations*. Santa Fe Institute Complex Systems Summer School, Santa Fe, NM.
- 2004 **Hamilton, M.J.**, B. Buchanan, and J.D. Kilby. *A Neutral Model of Technological Variation in the North American Late Pleistocene*. 69th annual meetings of the SAA, Montreal, QC.
- 2004 Kilby, J.D., B. Buchanan, and **M.J. Hamilton**. *Deconstructing Clovis: The Independence of Critical Issues*. 69th annual meetings of the SAA in Montreal, QC.
- 2003 **Hamilton, M.J.** *Paleoindian Cultural Transmission: The Evolutionary Processes of Cultural Change*. 68th annual meetings of the SAA in Milwaukee, WI.
- 2002 Buchanan, B., R. Walker and **M.J. Hamilton**. *Patterns of Carcass Use Among the Ache*. 75th Anniversary of the Department of Anthropology at UNM, Hibben Center/Maxwell Museum, UNM (poster).
- 2000 Buchanan, B., R. Walker and **M.J. Hamilton**. *Patterns of Carcass Use Among the Ache*. 66th annual meetings of the SAA in New Orleans, LA, (poster).

ARCHAEOLOGICAL FIELD EXPERIENCE

- 2007 Teaching Assistant for the UNM archaeological field school at the Mockingbird Gap Clovis site, New Mexico, directed by B.B. Huckell. (June-July)
- 2006 Test excavations at Mockingbird Gap Clovis site, New Mexico, directed by B.B. Huckell and V.T. Holliday. (May)
- 2001-2004 Crew chief/Teaching assistant for the UNM archaeological field school and research excavations at the Boca Negra Wash site, New Mexico. Excavation of a series of Folsom-age campsites located around an extinct playa to the west of Albuquerque directed by B.B. Huckell and V.T. Holliday. (June-July)
- 2002 Prospecting/survey of El Fresnal playa basin, northern Chihuahua, MX. Survey focused on particular geomorphic features relating to the preceramic hunter-gatherer occupation of the area. (July-August)

- 2001-2002 Crew member at the excavation of Casa del Fuego, Chihuahua, Mexico, a joint research program between UNM, the Museum of New Mexico and the Institute of Archaeology and History (INAH), Mexico under the direction of Rafael Cruz Antillon. (July)
- 2001 Crew member at the Murray Springs site, Arizona. Reinvestigation of Clovis-age deposits in a joint research program between the University of Arizona and UNM under the direction of C.V. Haynes and B.B. Huckell. (May)
- 1999 Survey of a section of the Canadian River for Priam and Associates, (November) Canyon, Texas.
- 1997 -2000 Crew chief at the Lubbock Lake Landmark, Texas. Excavations centered on a series of stratified Paleoindian bone beds (ca.10kaBP) directed by E.J. Johnson and the Museum of Texas Tech University. Also included various regional investigations into Late Pleistocene deposits directed by V.T. Holliday. (June-August)
- 1995-2000 Crew chief at the San Jon site, New Mexico. Excavations centered on an early archaic/late Paleoindian camp (ca.8.5kaBP) located on the edge of an extinct playa run by the Museum of Texas Tech University, directed by E.J. Johnson and V.T. Holliday. (May-June)
- 1994-1996 Crew chief at the Lubbock Lake Landmark, Texas. Excavations centered on an early ceramic campsite (ca.2.5kaBP) including extensive bison processing directed by E.J. Johnson and the Museum of Texas Tech University. Also included various regional investigations into Late Pleistocene deposits directed by V.T. Holliday. (June-August)
- 1994-1996 Crew member/crew chief at the Milnesand and Ted Williamson Paleoindian sites, New Mexico. Excavations and surveys of a series of Paleoindian occupations. Directed by E.J. Johnson and V.T. Holliday. (May-June)
- 1994 Research laboratory assistant at Blue Creek, Belize. Duties included the cataloging and processing of artifacts recovered from the late Preclassic site of Blue Creek. Research was conducted by St. Mary's University, San Antonio, Texas directed by T. Guderjan. (Sept.-Oct.)
- 1994 Crew member for the archaeological survey of Reese Airforce base, Texas under the direction of J.K. Hicks, E.J. Johnson and the Museum of Texas Tech University. (August-Sept.)
- 1993 Crew member at the Lubbock Lake Landmark, Texas. Excavations centered on an early ceramic campsite (ca.2.5kaBP) and *Bison bison* bone bed directed by E.J. Johnson and the Museum of Texas Tech University. (May-August)

REFERENCES

James H. Brown, *Distinguished Professor*
Department of Biology
University of New Mexico
Albuquerque, NM 87131 USA
Email: jhbrown@unm.edu

James L. Boone, *Professor*
Department of Anthropology
University of New Mexico
Albuquerque, NM 87131 USA
Email: jboone@unm.edu

Bruce B. Huckell, *Research Professor and Senior Research Coordinator*
Department of Anthropology
Maxwell Museum of Anthropology
University of New Mexico
Albuquerque, NM 87131 USA
Email: bhuckell@unm.edu

Felisa A. Smith, *Associate Professor and co-Director*,
Program in Interdisciplinary Biological & Biomedical Sciences
Department of Biology
University of New Mexico
Albuquerque, NM 87131 USA
Email: fasmith@unm.edu

Geoffrey B. West, *Distinguished Professor*
Santa Fe Institute
1399 Hyde Park Road
Santa Fe, NM 87051 USA
Email: gbw@santafe.edu

Luis M. Bettencourt, *Research Scientist*
Los Alamos National Laboratory
Theoretical Division , T-7
Mail Stop B284
Los Alamos NM 87545 USA
Email: lmbett@lanl.gov