CURRICULUM VITAE

DEBORAH A. BOLNICK

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AREAS OF SPECIALIZATION

Genomic anthropology, ancient DNA, human population genetics, human biological variation, race, Native American population history, anthropology of science.

EDUCATION

Ph.D., Anthropology, University of California, Davis, 2005.
Dissertation: The genetic prehistory of eastern North America: evidence from ancient and modern DNA. Advisor: Dr. David Glenn Smith.

M.A., Anthropology, University of California, Davis, 2001.

B.A., Anthropology *summa cum laude*, Yale University, 1999.

APPOINTMENTS

2007 – present	Assistant Professor. Department of Anthropology, University of Texas at Austin.
	Faculty. Ecology, Evolution, and Behavior graduate program. University of Texas at Austin.
2012 – present	Faculty Research Associate. Population Research Center. University of Texas at Austin.
	Adjunct faculty. Department of Anthropology, Texas State University.
2005 – 2007	Lecturer/Research Fellow. Dept. of Anthropology, University of Texas at Austin.
2003 – 2004	Teaching Assistant Training Program Coordinator. Department of Anthropology, University of California, Davis.
1999 – 2003	Research Assistant and Teaching Assistant for *Human Evolutionary Biology*, *Human Evolution*, and *Human Biological Variation*. University of California, Davis.
1998 – 1999	Research Associate. Centre for Genetic Anthropology, University College London.
1997	Research Assistant. Archeology Division, Oklahoma Museum of Natural History.

PUBLICATIONS IN PEER-REVIEWED JOURNALS & EDITED VOLUMES

(I have published under the last names of Bolnick and Weiss)

Mata-Míguez J, Overholtzer L, Rodríguez-Alegría ER, Kemp BM, and **Bolnick DA**. In press. The genetic impact of Aztec imperialism: ancient mitochondrial DNA evidence from Xaltocan, Mexico. American Journal of Physical Anthropology.

Bolnick DA, Bonine HM, Mata-Miguez J, Kemp BM, Snow MH, LeBlanc SA. 2012. Non-destructive sampling of human skeletal remains yields ancient nuclear and mitochondrial DNA. American Journal of Physical Anthropology 147:293-300.

Raff JA*, **Bolnick DA***, Tackney J, O'Rourke DH. 2011. Ancient DNA perspectives on American colonization and population history. American Journal of Physical Anthropology 146:503-514. (* equal contribution)

Bolnick DA. 2011. Continuity and change in anthropological perspectives on migration: insights from molecular anthropology. In: Cabana GS, Clark JJ, editors. Rethinking Anthropological Perspectives on Migration. pp 263-277.

Bolnick, DA. 2009. Comment on "Color, race, and genomic ancestry in Brazil: dialogues between anthropology and genetics" by Ricardo Santos et al. Current Anthropology 50:802-803.

Lee SS, **Bolnick DA**, Duster T, Ossorio P, TallBear K. 2009. The illusive gold standard in genetic ancestry testing. Science 325:38-39.

Veilleux CC, **Bolnick DA**. 2009. Opsin gene polymorphism predicts trichromacy in a cathemeral lemur. American Journal of Primatology 71:86-90.

Bolnick DA. 2008. Individual ancestry inference and the reification of race as a biological phenomenon. In: Koenig B, Lee S, Richardson S, editors. Revisiting Race in a Genomic Age. New Brunswick: Rutgers University Press. pp 70-88.

Halverson MS, **Bolnick DA**. 2008. An ancient DNA test of a founder effect in Native American ABO blood group frequencies. American Journal of Physical Anthropology 137:342-347.

Bolnick DA, Fullwiley D, Marks J, Reverby SM, Kahn J, TallBear K, Reardon J, Cooper RS, Duster T, Fujimura JH, Kaufman JS, Morning A, Nelson A, Ossorio P. 2008. Response to "The legitimacy of genetic ancestry tests" by Tony Frudakis. Science 319:1039-1040.
(Reprinted in *Biological Anthropology: An Introductory Reader*, 6th edition. Park ME, editor.)

Bolnick DA, Fullwiley D, Duster T, Cooper RS, Fujimura JH, Kahn J, Kaufman JS, Marks J, Morning A, Nelson A, Ossorio P, Reardon J, Reverby SM, TallBear K. 2007. The science and business of genetic ancestry testing. Science 318:399-400.
(Reprinted in *Biological Anthropology: An Introductory Reader*, 6th edition. Park ME, editor.)

Bolnick DA, Smith DG. 2007. Migration and social structure among the Hopewell: evidence from ancient DNA. American Antiquity 72:627-644.

Kemp BM, Malhi RS, McDonough J, **Bolnick DA**, Eshleman JA, Rickards O, Martinez-Labarga C, Johnson JR, Lorenz JG, Dixon EJ, Fifield TE, Heaton TH, Worl R, Smith DG. 2007. Genetic analysis of early Holocene skeletal remains from Alaska and implications for the peopling of the Americas. American Journal of Physical Anthropology 132:605-621.

Bolnick DA, Bolnick DI, Smith DG. 2006. Asymmetric male and female genetic histories among Native Americans from eastern North America. Molecular Biology and Evolution 23:2161-2174.

Bolnick DA, Shook BAS, Campbell L, Goddard I. 2004. Problematic use of Greenberg's linguistic classification of the Americas in studies of Native American genetic variation. American Journal of Human Genetics 75:519-522.

Bolnick DA, Smith DG. 2003. Unexpected patterns of mitochondrial DNA variation among Native Americans from the southeastern United States. American Journal of Physical Anthropology 122:336-354.

Weale ME*, **Weiss DA***, Jager RF, Bradman N, Thomas MG. 2002. Y chromosome evidence for Anglo-Saxon mass migration. Molecular Biology and Evolution 19:1008-1021. (* equal contribution)

Malhi RS, Eshleman JA, Greenberg JA, **Weiss DA**, Schultz BA, Kemp BM, Kaestle FA, Lorenz JG, Johnson JR, Smith DG. 2002. The structure of diversity within New World mtDNA haplogroups: implications for the prehistory of North America. American Journal of Human Genetics 70:905-919.

Wilson JF, **Weiss DA**, Richards M, Thomas MG, Bradman N, Goldstein DB. 2001. Genetic evidence for different male and female roles during cultural transitions in the British Isles. Proceedings of the National Academy of the Sciences USA 98:5078-5083.

Nebel A, Filon D, **Weiss DA**, Weale M, Faerman M, Oppenheim A, Thomas MG. 2000. High-resolution Y chromosome haplotypes of Israeli and Palestinian Arabs reveal geographic substructure and substantial overlap with haplotypes of Jews. Human Genetics 107:630-641.

Thomas MG, Parfitt T, **Weiss DA**, Skorecki K, Wilson JF, Roux M, Bradman N, Goldstein DB. 2000. Y chromosomes traveling south: the Cohen modal haplotype and the origins of the Lemba – the "black Jews of Southern Africa." American Journal of Human Genetics 66:674-686.

OTHER PUBLICATIONS

Bolnick DA, Feder KL, Lepper BT, Barnhart TA. 2012. Civilizations lost and found: fabricating history. Part 3: real messages in DNA. Skeptical Inquirer 36:48-51.

Lepper BT, Feder KL, Barnhart TA, **Bolnick DA**. 2011. Civilizations lost and found: fabricating history. Part 2: false messages in stone. Skeptical Inquirer 35:48-54.

Feder KL, Lepper BT, Barnhart TA, **Bolnick DA**. 2011. Civilizations lost and found: fabricating history. Part 1: an alternate reality. Skeptical Inquirer 35:38-45.

Bolnick DA. 2009. Ancient DNA from Hopewell sites in Ohio and Illinois. Hopewell Happenings: 7 (annual newsletter of the Hopewell Culture National Historic Park).

TallBear K, **Bolnick DA**. 2004. "Native American DNA" tests: what are the risks for tribes? The Native Voice, December 3-17.

Bolnick DA. 2004. Historical linguistics: tracing the Celts across Europe. Current Anthropology 45:3.

Bolnick DA. 2004. Primate behavior: learning tool use from female orangutans. Current Anthropology 45:4.

Bolnick DA. 2003. Primate molecular evolution: ancient chimpanzee pandemics. Current Anthropology 44:625.

Bolnick DA. 2003. Medical anthropology: infertility and female status in Central Africa. Current Anthropology 44:452.

Bolnick DA. 2003. Molecular anthropology: sex differences in founder effects. Current Anthropology 44:321.

Bolnick DA. 2003. Human evolution: Neandertals and modern human origins. Current Anthropology 44:152.

RESEARCH GRANTS

Norman Hackerman Advanced Research Program. Assessing the impact of European contact on Native American genomic diversity and disease prevalence ($80,000), 2012.

Rock Art Foundation. Ancient DNA analysis of the prehistoric inhabitants of the Lower Pecos region of Texas ($14,792), 2012.

University of Texas Undergraduate Research Apprenticeship Program. Reconstructing Native American population history from genetic data ($2,000), 2012.

National Science Foundation. Ancient tuberculosis in the Americas: a Midwestern perspective. Sub-contract on a grant to Frederika Kaestle and Della Collins Cook ($12,404), 2009.

University of California Dissertation-Year Fellowship ($500), 2004.

National Science Foundation. Mitochondrial DNA and Y-chromosome diversity among prehistoric Native Americans from the Ohio and Illinois Valleys. Dissertation Improvement Grant ($11,997), 2002.

Phi Beta Kappa Award ($3,700), 2002.

University of California Humanities Graduate Research Award ($1,500), 2002.

Consortium for Women and Research Graduate Research Award ($1,200), 2002.

TEACHING GRANTS

Teaching Assistant Training Program Grant, University of California, Davis ($5,000), 2003.

FELLOWSHIPS & AWARDS

College Research Fellowship, University of Texas at Austin, 2011.

Summer Research Assignment, University of Texas at Austin, 2010.

Dissertation-Year Fellowship ($25,000), University of California, Davis, 2004-2005.

Graduate Fellowship ($5,500), University of California, Davis, 2004.

Graduate Studies Travel Award ($500), University of California, Davis, 2004.

Summer Research Fellowship ($2,000), University of California, Davis, 2003.

Graduate Student Association Travel Award ($500), University of California, Davis, 2003.

National Science Foundation Graduate Research Fellowship ($85,000), 2000-2003.

Graduate Fellowship ($16,000), University of California, Davis, 1999-2000.

Melford Charitable Trust Summer Studentship ($2,500), 1998.

TEACHING AWARDS, EXPERIENCE, & TRAINING

University of Texas at Austin Society for Teaching Excellence (2011)

Courses Taught: *Human Variation* (Fall 2005, Spring 2007, Fall 2009)
Anthropological Genetics (Spring 2006, Fall 2007, Spring 2009, Spring/Fall 2010)
Human/Primate Evolutionary Genetics (Spring 2010)
Race and Science (Fall 2010)
Constructions of Race in Biology and Physical Anthropology (Fall 2006)

Student Advisees: *Graduate Students* – Melissa Halverson (M.A. 2006), Jaime Mata-Miguez (M.A. 2011), Rick Smith, Carrie Veilleux (Ph.D. 2012, committee member), Brianne Herrera (Texas State University M.A. thesis committee member); *Undergraduates* – Laura Howard, Amira Abdul-Hafiz, Julie Perez, Brianne Herrera, Blake Kincaid, Jenna Strawbridge, Maeve Cavanaugh, Yasmine Baktash, Kelly Chapman, Mareike Janiak

Training: Seminar in College Teaching. Teaching Resource Center, University of California, Davis. (2003)

INVITED PRESENTATIONS & INVITED MEETINGS

2013. Department of Anthropology, University of Pennsylvania. February, Philadelphia, PA. (Upcoming)

2012. Center for Genetics and Society Tarrytown Meeting. July, Tarrytown, NY.

2012. Center for Inquiry Austin. March, Austin, TX.

2011. UT Quest lecture, Osher Lifelong Learning Institute, University of Texas at Austin. February, Austin, TX.

2010. Banbury Center Meeting on "DNA, Genetics, and the History of Mankind." November, Cold Spring Harbor, NY.

2010. Center for Genetics and Society Tarrytown Meeting. July, Tarrytown, NY.

2010. Texas State University. March, San Marcos, TX.

2008. Thankful Hubbard Chapter of the Daughters of the American Revolution. September, Austin, TX.

2007. Genome Canada International Conference. October, Quebec City, Canada.

2007. Human Biology Seminar, University of Texas at Austin. April, Austin, TX.

2007. Texas A&M University. March, College Station, TX.

2007. UT LAMP (Learning Activities for Mature People), University of Texas at Austin. February, Austin, TX.

2006. University of Tennessee. November, Knoxville, TN.

2006. University of Tennessee. October, Knoxville, TN.

2006. Arizona State University. October, Tempe, AZ.

2006. Williams College. February, Williamstown, MA.

2006. Stanford University. January, Palo Alto, CA.

2005. University of California, Davis. June, Davis, CA.

2004. Stanford University. November, Palo Alto, CA.

2003. University of Texas at Austin. May, Austin, TX.

CONFERENCE PRESENTATIONS & POSTERS

Bolnick DA. 2012. Introduction to the AAAG symposium: new developments and current issues in genetic research with indigenous populations. American Association of Physical Anthropologists Annual Meeting. April, Portland, OR.

Mata-Miguez J, **Bolnick DA**, Overholtzer L, Rodriguez-Alegria E. 2012. Ancient DNA evidence of population replacement following the Aztec conquest of Xaltocan, Mexico. American Association of Physical Anthropologists Annual Meeting. April, Portland, OR.

Veilleux CC, Louis EE, **Bolnick DA**. 2012. Genetic evidence of widespread differential selection for color vision among nocturnal lemurs. American Association of Physical Anthropologists Annual Meeting. April, Portland, OR.

Feder K, Atalay S, Barnhart T, **Bolnick D**, Lepper B. 2012. Lessons learned from "Lost Civilizations". Society for American Archaeology Annual Meeting. April, Memphis, TN.

Veilleux CC, **Bolnick DA**, Louis EE. 2010. Variation in nocturnal lemur color vision: ecological correlates of differential selection. American Society of Primatologists Annual Meeting. June, Louisville, KY.

Veilleux CC, Louis EE, **Bolnick DA**. 2010. Differential selection for color vision in two nocturnal folivores. American Association of Physical Anthropologists Annual Meeting. April, Albuquerque, NM.

Bolnick DA. 2009. Commercial genetic ancestry testing and the production of anthropological knowledge. American Anthropological Association Annual Meeting. December, Philadelphia, PA.

Bolnick DA, Bonine HM. 2009. Mitochondrial DNA variation among ancient Adena populations from Kentucky. American Association of Physical Anthropologists Annual Meeting. April, Chicago,

IL.

Bolnick DA. 2007. The impact of European contact on Native American genetic diversity. Texas Biological Anthropologists Consortium Conference. November, Austin, TX.

Bolnick DA. 2007. Migration and social structure among the Hopewell: insights from ancient DNA. Society for American Archaeology Annual Meeting. April, Austin, TX.

Bolnick DA. 2007. Commercial ventures in genetic ancestry testing and the science of racial genetics. Conference on the Business of Race and Science. Massachusetts Institute of Technology. March, Cambridge, MA.

Bolnick DA. 2006. The impact of genetic ancestry testing on public understanding of race and human genetic structure. American Association of Physical Anthropologists Annual Meeting. March, Anchorage, AL.

Bolnick DA. 2005. Sociocultural, linguistic, and geographic influences on genetic diversity in eastern North America. American Anthropological Association Annual Meeting. December, Washington, DC.

Bolnick DA. 2005. Asymmetric male and female genetic histories in Native Americans from eastern North America. Society for the Study of Evolution Annual Meeting. June, Fairbanks, AL.

Kemp BM, Smith DG, Eshleman JA, Malhi RS, McDonough JW, **Bolnick DA**, Dixon EJ, Heaton TH, Fifield T, Worl R. 2005. Analysis of ancient DNA from an individual from Prince of Wales Island: implications for the peopling of the New World. Pacific Division of the American Association for the Advancement of Science Annual Meeting. June, Ashland, OR.

Shook BA, **Bolnick DA**. 2005. Prehistoric change and continuity in the Ohio and Illinois Valleys. American Association of Physical Anthropologists Annual Meeting. April, Milwaukee, WI.

Bolnick DA. 2004. Using Y-chromosome and mtDNA variation to reconstruct eastern North American population history. American Association of Physical Anthropologists Annual Meeting. April, Tampa, FL.

Bolnick DA. 2003. "Showing who they really are": commercial ventures in genetic genealogy. American Anthropological Association Annual Meeting. November, Chicago, IL.

Bolnick DA. 2003. Genetic relationships among the prehistoric Adena and Hopewell. American Association of Physical Anthropologists Annual Meeting. April, Tempe, AZ.

Bolnick DA. 2002. Mitochondrial DNA haplogroup variation among the Adena. The Midwest Archaeological Conference. October, Columbus, OH.

Weiss DA. 2002. Mitochondrial DNA diversity among the prehistoric Adena of the central Ohio Valley. American Anthropological Association Annual Meeting. November, New Orleans, LA.

Weiss DA. 2001. Mitochondrial DNA diversity among Native Americans from the southeastern United States. American Association of Physical Anthropologists Annual Meeting. March, Kansas City, MO.

Greenberg JA, Malhi RS, Schultz BA, **Weiss DA**, Eshleman JA, Kemp BM. 2001. Mapping modern

mtDNA haplogroup frequencies of Native North Americans' ancient Native American homelands utilizing GIS. American Association of Physical Anthropologists Annual Meeting. March, Kansas City, MO.

Thomas MG, **Weiss DA**. 2000. Human Y chromosome variation across England and Wales. American Association of Physical Anthropologists Annual Meeting. April, San Antonio, TX.

Weiss DA, Daegling DJ. 2000. Effects of formalin fixation and desiccation on bone strain patterns in primate long bones. American Association of Physical Anthropologists Annual Meeting. April, San Antonio, TX.

PANELS ORGANIZED

2012. American Association of Anthropological Genetics symposium: innovation, challenges, and new directions in genetic research with indigenous populations. American Association of Physical Anthropologists Annual Meeting. April, Portland, OR.

2009. Consuming genomics: anthropology at the crossroads. Presidential session co-organized with Joanna Radin. American Anthropological Association Annual Meeting. December, Philadelphia, PA.

2006. Genetic ancestry testing: the public face of molecular anthropology. Symposium co-organized with Ripan Malhi. American Association of Physical Anthropologists Annual Meeting. March, Anchorage, AL.

2005. Correlating genes, language, and culture: insights into Native American prehistory. American Anthropological Association Annual Meeting. December, Washington, DC.

HONORS

Edward Sapir Prize, Yale University, 1999.

Distinction in the Major (Anthropology), Yale University, 1999.

Phi Beta Kappa, elected 1999.

PROFESSIONAL SERVICE

Manuscript reviewer for *American Journal of Human Biology, American Journal of Physical Anthropology, Annals of Human Biology, Annals of Human Genetics, Anthropology Today, Cultural Anthropology, Current Anthropology, Evolutionary Anthropology, Human Genetics, Journal of Archaeological Science, Jurimetrics, Medical Anthropology Quarterly, Molecular Biology and Evolution, Social Psychology Quarterly,* and *Social Studies of Science*.

Grant reviewer for the National Science Foundation, National Geographic Society, and Social Science and Humanities Research Council.

President, American Association of Anthropological Genetics, 2012-2013.

Vice President/President-Elect, American Association of Anthropological Genetics, 2011-2012.

Executive Committee, American Association of Anthropological Genetics, 2011-2014.

Editorial Board, *Human Biology* journal, 2012-present.

Student Prize Judge, American Association of Anthropological Genetics, 2011-2012.

Genetics and Evolution workshops, Texas Memorial Museum professional development series for Texas high school biology teachers, 2007-2010.

Consultant, Howry Breen Trial Attorneys, 2010.

Consultant, Forensic Audits and Special Investigations (direct-to-consumer genetic testing), U.S. Government Accountability Office, 2008.

Consultant, Public Defender Service for the District of Columbia, 2007.

Organizer, Department of Anthropology Seminar Series, University of Texas at Austin, 2009-2010.

Co-organizer, Anthropology Department Speaker Series, University of Texas at Austin, 2006-2007.

Organizer/Co-organizer, Physical Anthropology Seminar Series, Department of Anthropology, University of Texas at Austin, 2005-2010.

Merit Committee, Department of Anthropology, University of Texas at Austin, 2012-2013.

Awards Committee, Department of Anthropology, University of Texas at Austin, 2006-2007, 2011-2013.

Undergraduate Studies Committee, Department of Anthropology, University of Texas at Austin, 2012-2013.

Harrington Fellowship Committee, Department of Anthropology, University of Texas at Austin, 2010.

Governance Committee, Department of Anthropology, University of Texas at Austin, 2010.

Graduate Admissions Committee, Department of Anthropology, University of Texas at Austin, 2008-2010.

Hiring Committees (4), Department of Anthropology, University of Texas at Austin, 2006-2009.

Executive Board, Biological Anthropology Section of the American Anthropological Association, 2003-2005.

Editorial Associate, *Current Anthropology*, 2000-2001, 2002-2003.

MEDIA COVERAGE

Genetic ancestry testing research: *Austin American-Statesman* (2006, 2007), *New Scientist* (2006), *News Hour with Jim Lehrer* (2006), BBC World Radio (2007), *Canadian Press* (2007), *CanWest News* (2007), CBC Radio (2007), *Cox Newspapers* (2007), *Current Science* (2007), *Daily Telegraph* (2007), *Fox News* (2007), *Globe and Mail* (2007), *Houston Chronicle* (2007), *Le Figaro* (2007), *Live Science News* (2007), *Medical News Today* (2007), *Oakland Tribune* (2007), Radio New Zealand (2007), *USA Today* (2007), *Wall Street Journal* (2007), *Deseret Morning News* (2008), *Oprah Magazine* (2009), *Discover Magazine* (2009), *Science Daily* (2009), *Genome Web Daily News* (2009), *Red Orbit* (2009), *LA Times (2012).*

University of Texas at Austin Website Feature. "Deep Roots?" July 2-15, 2007.

Race/human genetic variation research: National Public Radio Station KUSP's *Talk of the Bay* (2007), *Men's Health Magazine* (2009).

Native American genetic research: National Geographic documentary on the first Americans (2007), National Park Service *Hopewell Happenings* newsletter (2009), *The Lost Civilizations of North America* documentary (2010), *Indian Country Today* (2011).

PROFESSIONAL AFFILIATIONS

American Association of Anthropological Genetics
American Association of Physical Anthropology
American Anthropological Association (Biological Anthropology Section)
Society for American Archaeology