

Peter B. Gray

Department of Anthropology
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ACADEMIC POSITIONS

University of Nevada, Las Vegas

- Assistant Professor 2005-present

Charles Drew University

2003-2005

- Research Fellow (Mentor: Shalender Bhasin), Division of Endocrinology, Metabolism & Molecular Medicine

EDUCATION

Harvard University, Cambridge, MA

- Ph.D., Biological Anthropology 2003
- A.M., Biological Anthropology 2000

UCLA, Los Angeles, CA

- B.A., Anthropology, Departmental Highest Honors 1996
- B.A., Geography/Environmental Studies 1996

AREAS OF SPECIALIZATION AND CURRENT RESEARCH INTERESTS

- Human behavioral endocrinology, evolutionary perspectives on human behavior, human reproductive ecology, human biology, U.S. and Caribbean
- Recent collaborative field research in Jamaica (with Maureen Samms-Vaughan and Toni Ziegler) has investigated the hormonal correlates of grandmothering (summer 2008) and paternal interactions (summer 2006) by relying on minimally invasive saliva, blood spot, and urine sample collection
- I am currently most actively working on
 - Behavioral, psychological, and physiological aspects of stepfathering
 - Behavioral, psychological, and physiological dimensions of couples with and without young children
 - Cross-cultural and physiological aspects of human-pet interactions

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GRANTS AND AWARDS

2007: UNLV Research Development Award (\$10,000)

2006: Center for Human and Primate Reproductive Ecology, Yale University, Research Grant (\$2,000)

2006: Summer UNLV Faculty Development Fellowship

2003-05: Post-doctoral Fellowship in Endocrinology, Metabolism and Molecular Medicine, Charles Drew University of Medicine and Science (\$90,000)

2000-03: Bok Teaching Center, Harvard University, Distinguished Teaching Award (4 semesters)

2000-02: Arthur Green Foundation Research Grant (\$8,425)

2000-01: Frederick Sheldon Traveling Fellowship, Harvard University (\$12,000)

2000: L.S.B. Leakey Research Grant (declined due to Tanzanian permit difficulties)

1998: National Science Foundation Graduate Student Fellowship, Honorable Mention

1998: Mellon Foundation grant for summer research (\$3,000)

1997-2001: Michael Crichton Fellowship, Harvard University

1996: Teague-Melville-Elliott Award (best undergraduate paper in the social sciences), UCLA

PUBLICATIONS

Books and book chapters:

Gray, P.B. and Anderson, K.G. In press. *Fathers: Evolution and Human Paternal Care*. Cambridge: Harvard University Press.

Gray, P.B. In press. The evolution and endocrinology of human behavior: A focus on sex differences and reproduction. In *Human Evolutionary Biology*, Muehlenbein, M., ed. Cambridge: Cambridge University Press.

Ellison, P.T. and Gray, P.B., Eds. 2009. *Endocrinology of Social Relationships*. Cambridge: Harvard University Press.

Gray, P.B. and Campbell, B.C. 2009. Human male testosterone, pair bonding and fatherhood. In *Endocrinology of Social Relationships*, Ellison, P.T. and Gray, P.B., eds. Cambridge: Harvard University Press.

Sanchez, R., Parkin, J., Chen, J. and Gray, P.B. 2009. Oxytocin, vasopressin and human social behavior. In *Endocrinology of Social Relationships*, Ellison, P.T. and Gray, P.B., eds. Cambridge: Harvard University Press.

Peer reviewed journals:

Campbell, B.C., Gray, P.B., Eisenberg, D.T., Ellison, P.T. and Sorenson, M. 2009. Androgen receptor CAG repeats and body composition among Ariaal men. *International Journal of Andrology* 32: 140-148.

Yang, C.J., Gray, P.B., Zhang, J. and Pope, H.G. Jr. 2009. Second to fourth digit ratios, sex differences, and behavior in Chinese men and women. *Social Neuroscience* 4: 49-59.

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Manlove, H., Guillermo, C. and Gray, P.B. 2008. Do women with polycystic ovary syndrome (PCOS) report differences in sex-typed behavior as children and adolescents? : Results of a pilot study. *Annals of Human Biology* 35: 584-595.

Apicella, C.L., Dreber, A., Campbell, B., Gray, P.B., Hoffman, M. and Little, A.C. 2008. Testosterone and financial risk preferences. *Evolution and Human Behavior* 29: 384-390.

Eisenberg, D.T., Campbell, B., Gray, P.B. and Sorenson, M.D. 2008. Dopamine receptor genetic polymorphisms and body composition in a subsistence society: An exploration of nutrition indices among settled and nomadic Ariaal pastoralists of northern Kenya. *BMC Evolutionary Biology* 8: 173.

Jankowiak, W., Gray, P.B. and Hatman, K. 2008. Female choice, nationality, and perception of *Cross-cultural Research* 42: 248-269.

Van Anders, S. and Gray, P.B. 2007. Hormones and human partnering. *Annual Review of Sex Research* 18: 60-93.

Gray, P.B., Parkin, J.C. and Samms-Vaughan, M.E. 2007. Hormonal correlates of human paternal interactions: a hospital-based investigation in urban Jamaica. *Hormones and Behavior* 52: 499-507.

Gray, P.B., Ellison, P.T. and Campbell, B.C. 2007. Testosterone and marriage among Ariaal men of northern Kenya. *Current Anthropology* 48: 750-755.

Yang, C.J., Hooven, C.K., Boynes, M., Gray, P.B. and Pope, Jr., H.G. 2007. Testosterone levels and mental rotation performance in Chinese men. *Hormones and Behavior* 51: 373-378.

Campbell, B.C., Ellison, P.T. and Gray, P.B. 2006. Age-related patterns of body composition, physical function and salivary testosterone among Ariaal men of northern Kenya. *Aging: Clinical and Experimental Research* 18: 470-476.

McIntyre, M.H., Gangestad, S.W., Gray, P.B., Flynn Chapman, M.T., and Thornhill, R. 2006 but not always: The moderating roles of extra-pair sexual interest. *Journal of Personality and Social Psychology* 91: 642-651.

Gray, P.B., Yang, C.J. and Pope, H.G. Jr. 2006. Fathers have lower salivary testosterone levels than unmarried men and married non-fathers in Beijing, China. *Proceedings of the Royal Society of London B: Biological Sciences* 273: 333-339.

Gray, P.B., Kruger, A., Huisman, H.W., Wissing, M.P. and Vorster, H.H. 2006. Predictors of South African male testosterone levels: the THUSA study. *American Journal of Human Biology* 18: 123-132.

Campbell, B.C., Gray, P.B. and Leslie, P. 2005. Age-related changes in body composition among Turkana males of Kenya. *American Journal of Human Biology* 17: 601-610.

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- Gray, P. and Campbell, B. 2005. Erectile dysfunction and its correlates among the Ariaal of northern Kenya. *International Journal of Impotence Research* 17: 445-449.
- Gray, P.B., Singh, A., Woodhouse, L., Storer, T.W., Casaburi, R., Sinha-Hikim, I., Dzekov, C., Dzekov, J. and Bhasin, S. 2005. Effects of testosterone on sexual function, mood and visuospatial cognition in older men. *Journal of Clinical Endocrinology and Metabolism* 90: 3838-3846.
- Choi, H.H., Gray, P.B., Storer, T.W., Calof, O.M., Woodhouse, L., Singh, A.B., Padero, C., Mac, R.P., Sinha-Hikim, I., Shen, R., Dzekov, J., Dzekov, C., Sushnir, M.M., Rockwood, A.L., Meikle, A.W., Lee, M.L., Hays, R.D. and Bhasin, S. 2005. Effects of testosterone replacement in human immunodeficiency virus-infected women with weight loss. *Journal of Clinical Endocrinology and Metabolism* 90: 1531-1541.
- Yang, C.J., Gray, P. and Pope, H.G. Jr. 2005. Male body image in Taiwan vs. the West: *Yanggang Zhiqi* meets the Adonis Complex. *American Journal of Psychiatry* 162: 263-269.
- Gray, P.B. 2004. Evolutionary and cross-cultural perspectives on gambling. *Journal of Gambling Studies* 20: 347-371.
- Gray, P.B., Campbell, B.C., Marlowe, F., Lipson, S.F. and Ellison, P.T. 2004. Social variables predict between- subject but not day-to-day variation in the testosterone of U.S. men. *Psychoneuroendocrinology* 29: 1153-1162.
- Gray, P.B., Flynn Chapman, J., McIntyre, M.H., Burnham, T.C., Lipson, S.F. and Ellison, P.T. 2004. Human male pair bonding and testosterone. *Human Nature* 15: 119-131.
- Gray, P.B. 2004. HIV and Islam: Is HIV prevalence lower among Muslims? *Social Science and Medicine* 58: 1751-1756.
- Gray, P.B. 2003. Marriage, parenting and testosterone variation among Kenyan Swahili men. *American Journal of Physical Anthropology* 122: 279-286.
- Burnham, T.C., Flynn Chapman, J.C., Gray, P.B., McIntyre, M., Lipson, S.F. and Ellison, P.T. 2003. Men in committed, romantic relationships have lower testosterone than single men. *Hormones and Behavior* 44: 119-122.
- Gray, P.B., Kahlenberg, S., Barrett, E., Lipson, S. and Ellison, P.T. 2002. Marriage and fatherhood are associated with lower testosterone in males. *Evolution and Human Behavior* 23: 193-201.
- Gray, P.B. and Marlowe, F. 2002. Fluctuating asymmetry among a foraging population: The Hadza of Tanzania. *Annals of Human Biology* 29: 495-501.

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Non peer reviewed online publications:

Gray, P.B., Eisenberg, D.T.A. and Campbell, B.C. 2009. Androgen receptor and vasopressin receptor (AVPR1a) genetic polymorphisms are not associated with marital status or fertility among Ariaal men of northern Kenya. *Nature Precedings*.

Jankowiak, W. and Gray P. 2009. Desire of the other: Perceptions of beauty in modern China. *Glimpse Journal*.

In review and in prep:

Peterson A., Connolly, C., Steiner, E.T., Hadi, F., Gray, P.B. In review. testosterone during an experimental lab study. *Collegicum Antropologicum*.

Gray, P.B. and Samms-Vaughan, M.E. In review. Grandmothering in Jamaica: Investigating its social context and potential hormonal correlates. *PLoS ONE*.

Escasa, M.J., Gray, P.B. and Patton J. In review. Male traits associated with attractiveness in Conambo, Ecuador. *Evolution and Human Diversity*.

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Gray, P.B. 2007. Book Review: *Human Biology of Afro-Caribbean Populations* (By L. Madrigal). *American Journal of Physical Anthropology* 134: 296.

Gray, P.B. 2007. Book Review: *Men: Evolutionary and Life History* (By R.G. Bribiescas). *Journal of Mammalian Evolution* 14: 147-148.

Gray, P.B. 2007. Book Review: *Cambridge Dictionary of Human Biology and Evolution* (By L.L. Mai, M. Young Owl and M.P. Kersging). *American Journal of Physical Anthropology* 132: 318.

Gray, P.B. 2005. Book Review: *Monogamy: Mating Strategies and Partnerships in Birds, Humans and Other Mammals* (ed. By U.H. Reichard and C. Boesch). *American Journal of Physical Anthropology* 127: 124-125.

Presentations and Invited Talks:

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York. November 2009.

Podium Presentation. Human Behavior and Evolution Society Meetings. Fullerton, CA. May 2009.

Podium Presentation. Southwestern Anthropology Association Meetings. Las Vegas, NV. April 2009.

Podium Presentation. Reproductive Ecology Symposium. Yale University. New Haven, CT. April 2009.

Podium Presentation. American Association of Physical Anthropology Meetings. Chicago, Illinois. April 2009.

Poster Presentation. Human Biology Association Meetings. Chicago, Illinois. April 2009.

Podium Presentation. Society for Cross-Cultural Research Meetings. Las Vegas, Nevada. February 2009.

Poster Presentation. American Anthropological Association Meetings. San Francisco, California. November 2008.

Colloquium, University of Nevada, Las Vegas. October 2008.

Colloquium Series, University of Colorado. Boulder, Colorado. April 2008.

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Podium Presentation. Society for Cross-cultural Research. New Orleans, Louisiana. February 2008.

human paternal interactions: A hospital-based investigation in urban
Podium Presentation. Society for Scientific Anthropology Meetings. New Orleans, Louisiana. February 2008.

makings of a man: hormones, pair bonds and fatherhood. Department of Anthropology
Visiting Speaker. Cal State, Fullerton. October 2007.

Podium Presentation. Human Behavior and Evolution Society Meetings. Williamsburg, Virginia. June 2007.

Podium Presentation. American Association of Physical Anthropology Meetings. Philadelphia, Pennsylvania. March 2007.

testosterone and cortisol and computer-aided spatial navigation. Poster presentation.
Human Biology Association Meetings. Philadelphia, Pennsylvania. March 2007.

Podium Presentation. American Association of Physical Anthropology Meetings. Anchorage, Alaska. March 2006.

Podium Presentation. Human Biology Association Meetings. Anchorage, Alaska. March 2006.

sexual function, mood and visuospatial cognition in older men.
Podium Presentation. Endocrine Society Meetings. San Diego, California. June 2005.

-fathers in Beijing, China Podium Presentation. Human Behavior and Evolution Society. Austin, Texas. June 2005.

Session Co-Chair. Cultural study of
American Anthropological Association Meetings. Atlanta, Georgia. December 2004.

Podium Presentation. American Anthropological Association Meetings. Atlanta, Georgia. December 2004.

Podium Presentation. American Association of Physical Anthropology Meetings. Tampa, Florida. April 2004.

Culture Colloquium Series, UCLA. Los Angeles, CA. October 2003.

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- Podium
Presentation. New England Biological Anthropology Symposium. Cambridge, Massachusetts.
March 2003.

Podium
Presentation. Human Biology Association
Meetings. Tempe, Arizona. April 2003.

Podium
Presentation. Human Behavior and Evolution Society. New Brunswick, New Jersey. June 2002.

Podium
Presentation. Human Behavior and Evolution Society. Amherst, Massachusetts. June 2000.

RESEARCH EXPERIENCE

- Biological sample collection, interviews and project (hormones and grandmothering) supervision, Kingston, Jamaica, May-July 2008
- Biological sample collection and project (hormones and paternal care) supervision, University Hospital of the West Indies, Jamaica, May-July 2006
- Ethnographic, survey and endocrine research in east Africa (among Ariaal, nomads in Kenya, August 2004; Swahili of Kenya, March-May 2001; Hadza of Tanzania, July-August 1998).
- Neuropsychological testing at Charles Drew University: administering tests assessing verbal abilities, spatial cognition, short-term memory and other outcomes to determine if performance on these tests varies during testosterone interventions, December 2003-June 2005.
- Administering questionnaires and conducting salivary testosterone research among U.S. men, primarily from Boston area, July-October 2002, March-May 2000.
- Conducted salivary testosterone and cortisol assays in the Reproductive Ecology Laboratory at Harvard University, 2000-2003.
- Conducting research on resource conservation in Pacaya Samiria National Reserve, Peru, September-December 1996.

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TEACHING EXPERIENCE

- Assistant Professor at UNLV, Fall 2005-present
 - Introduction to Physical Anthropology
 - Anthropology and Ecology
 - Evolution and Biology of Human Behavior
 - Hormones and Behavior
 - Current Thoughts in Physical Anthropology
 - Core Seminar II: Archaeology and Physical Anthropology
- Lecturer, UCLA Extension School, Fall 2004
 - Evolution and Biology of Human Behavior
- Teaching Fellow at Harvard University, Cambridge, MA, for the following classes:
 - Biology of Aggression, Spring 2003.
 - Evolution of Human Nature, Fall 2002, Spring 2002.
 - Human Behavioral Biology, Fall 2000, Fall 1999, Fall 1998.
 - Social Relationships, Spring 2000.
- Course Reader for "Rainforest Conservation Ecology", Spring 1999, at Harvard Extension School.

RELATED PROFESSIONAL EXPERIENCE

- Member of the American Anthropological Association, American Association of Physical Anthropologists, American Association of Human Biologists, Human Behavior and Evolution Society, and Society for Cross-cultural Research.
- Ad hoc Reviewer for *African Journal of Biochemical Research*, *Aging: Clinical and Experimental Research*, *American Anthropologist*, *Annals of Human Biology*, *American Journal of Human Biology*, *Archives of General Psychiatry*, *Biology Letters*, *BMC Infectious Diseases*, *Cambridge University Press*, *Cross-cultural Research*, *Culture, Health and Sexuality*, *Ethnoarchaeology*, *Evolution and Human Behavior*, *Hormones and Behavior*, *Human Nature*, *Journal of Urology*, *LSB Leakey Foundation*, *Medical Anthropology Quarterly*, *Personality and Individual Differences*, *Physiology and Behavior*, *PLoS ONE*, *Proceedings of the National Academy of Sciences*, *Proceedings of the Royal Society of London B*, *Psychoneuroendocrinology*, *Social Biology* and *Social Problems*.

limited to: American Way magazine, BBC News, Boston Globe, Denver Post, Fox News, Harvard Gazette, Las Veg National Geographic television, New Scientist, Psychology Today, UNLV Rebel Yell, Science Daily, Seattle Times, Scientific American, UK Telegraph, Times of India, and the Washington Post.