

Darryl Jon Holman

Department of Anthropology
117 Denny Hall, Box 353100
University of Washington
Seattle, WA 98195

Office Phone: 206-543-7586
Fax: 206-543-3285
Email: djholman@u.washington.edu
<http://faculty.washington.edu/~djholman>

Other program affiliations

Center for Studies in Demography and Ecology, University of Washington.
Center for Statistics and the Social Sciences, University of Washington.
South Asian Studies Program, University of Washington.
Population Research Institute, Pennsylvania State University.

Education

1996 PhD, Anthropology and Demography, [The Pennsylvania State University](#), University Park.
1990 MS, Anthropology, [University of Wisconsin–Madison](#).
1988 BS, Anthropology, [University of Wisconsin–Madison](#).

Research interests

Biological anthropology: human reproductive ecology, population genetics, human evolution, paleodemography.
Anthropological demography: birth spacing, fecundability, pregnancy loss, mortality, lactational infecundability, indirect estimation methods.
Quantitative methods: stochastic modeling, survival analysis, mixture models, latent variable methods.

Positions

2005- Associate Professor (with tenure), Department of Anthropology, University of Washington, Seattle.
1999-2005 Assistant Professor, Department of Anthropology, University of Washington, Seattle.
1996-1998 NIH Postdoctoral Fellow, Population Research Institute, The Pennsylvania State University, University Park.

Journal articles

Ferrell RJ, Simon JA, Pincus SM, Rodriguez G, O'Connor KA, Holman DJ, Weinstein M. (*in press*) Perimenopausal menstrual cycles: length increases later and to a greater degree than previously reported. *Fertility and Sterility*.
O'Connor KA, Brindle E, Miller RC, Shofer JB, Ferrell RJ, Klein JA, Soules MR, Holman DJ, Mansfield PK, Wood JW, Weinstein. (*in press*) Ovulation detection methods for urinary hormones: Precision, daily and intermittent sampling, and a combined hierarchical method. *Human Reproduction*.
Holman DJ, Grimes MA, Achterberg JT, Brindle E, O'Connor KA. (2006) The distribution of postpartum amenorrhea in rural Bangladeshi women. *The American Journal of Physical Anthropology* **129**(4):609-619.
Ferrell RJ, O'Connor KA, Rodríguez G, Gorrindo T, Holman DJ, Brindle E, Miller RC, Schechter DE, Korshalla L, Simon JA, Mansfield PK, Wood JW, Weinstein M. (2005) Monitoring reproductive aging in a five year prospective study: Aggregate and individual changes in steroid hormones and menstrual cycle lengths with age. *Menopause* **12**(5):567-77.
Holman DJ, Yamaguchi K (2005) Longitudinal analysis of deciduous tooth emergence: IV. Covariate effects in Japanese children. *American Journal of Physical Anthropology* **126**:352-358.
Holman DJ, Grimes MA, Brindle E, O'Connor KA. (2004) Hormonal correlates for the initiation of breastfeeding in Bangladeshi women. *Hormones and Behavior* **46**(4):382-391.
Miller RC, Brindle E, Holman DJ, Shofer J, Klein NA, Soules MR, O'Connor KA (2004) Comparisons of specific gravity and creatinine methods for normalizing urinary reproductive hormone concentrations. *Clinical Chemistry* **50**:924-932.

- Holman DJ, Grimes MA. (2003) Patterns for the initiation of breastfeeding in humans. *American Journal of Human Biology* **15**:765-780.
- Holman DJ, Jones RE (2003) Longitudinal analysis of deciduous tooth emergence: III. Sexual dimorphism in Bangladeshi, Guatemalan, Japanese and Javanese children. *American Journal of Physical Anthropology* **122**:269-278.
- Sarton-Miller I, Holman DJ, Spielvogel H (2003) Regression-based prediction of net energy expenditure in children performing activities at high altitude. *American Journal of Human Biology* **15**:554-565.
- O'Connor KA, Brindle E, Holman DJ, Klein NA, Soules MR, Campbell KL, Kohen F, Munro CJ, Shofer JB, Lasley WL, Wood JW (2003) Urinary estrone conjugate and pregnanediol-3-glucuronide enzyme-immunoassays for population-based research. *Clinical Chemistry*. **49**(7):1139-1148.
- O'Connor KA, Holman DJ, Wood JW (2001) Menstrual cycle variability and the perimenopause. *The American Journal of Human Biology* **13**(4):465-78.
- Holman DJ, Grimes MA. (2001) Colostrum feeding behaviour and initiation of breast-feeding in rural Bangladesh. *The Journal of Biosocial Science* **33**:139-54.
- O'Connor KA, Holman DJ and Wood JW. (1998) Declining fecundity and ovarian aging in natural fertility populations. *Maturitas*. **30**:127-136.
- Holman DJ, Rasheed FN, Stroud CM, Brindle E, O'Connor KA and Campbell KL (1998) A commercial pregnancy test modified for field studies of fetal loss. *Clinica Chimica Acta*. **271**(1):25-44.
- Holman DJ and Jones RE (1998) Longitudinal analysis of deciduous tooth emergence II: Parametric survival analysis in Bangladeshi, Guatemalan, Japanese and Javanese children. *American Journal of Physical Anthropology* **105**(2):209-30.
- Wood JW, Holman DJ, Yashin A, Peterson RJ, Weinstein M and Chang M-c (1994) A multistate model of fecundability and sterility. *Demography* **31**(3):403-426.
- Wood JW, Holman DJ, Weiss KM, Buchanan AV and LeFor B (1992) Hazards models for human population biology. *Yearbook of Physical Anthropology* **35**:37-63.
- Holman DJ and Jones RE (1991) Longitudinal analysis of deciduous tooth emergence in Indonesian children: I. Life table methodology. *American Journal of Human Biology* **3**(4):389-403.
- Holman DJ and Bennett KA (1991) Determination of sex from arm bone measurements. *American Journal of Physical Anthropology* **84**(4):421-426.

Book chapters

- Holman DJ, O'Connor KA, Wood JW (2005) Age and female reproductive function: Identifying the most important biological determinants. In Hill A, Mascie-Taylor N, Sauvain-Dudgeril C (eds) *Age: Human Clock and Scale of Social Organization*. Oxford: Oxford University Press.
- Holman DJ, O'Connor KA (2004) Bangladeshis. In Ember and Ember (eds.) *Encyclopedia of Medical Anthropology*. New York: Kluwer Academic Press.
- Holman DJ. (2003) Unmeasured heterogeneity. In: Lewis-Beck MS, Bryman A, Liao TF, (eds.) *Encyclopedia of Social Science Research Methods*. Thousand Oaks, CA: Sage Publications.
- Holman DJ, O'Connor KA and Wood JW. (2002) Estimating age-at-death distributions from skeletal samples: A multivariate latent trait approach. In Hoppa RD and Vaupel JW (eds.) *Paleodemography: Age Distributions from Skeletal Samples*. Cambridge: Cambridge University Press, pp. 222-242.
- Wood JW, Holman DJ, O'Connor KA and Ferrell RJ. (2002) Models of human mortality. In Hoppa RD and Vaupel JW (eds.) *Paleodemography: Age Distributions from Skeletal Samples*. Cambridge: Cambridge University Press, pp. 129-168.
- Wood JW, Holman DJ, O'Connor KA (2001) Did menopause evolve by antagonistic pleiotropy? In M. Schultz (ed.), *Homo—unsere Herkunft und Zukunft*. Gottingen: Cuvillier Verlag. pp. 483-90.
- Holman DJ, Wood JW (2001) Pregnancy loss and fecundability in women. In Ellison PT (ed.) *Reproductive Ecology and Human Evolution*. Hawthorne, NY: Aldine de Gruyter, pp. 15-38.
- Holman DJ, Wood JW, and Campbell KL (2000) Age-dependent decline of female fecundity is caused by early fetal loss. Chapter 9 in te Velde ER, Broekmans F, and Pearson P (eds) *Female Reproductive Ageing*. Studies in Profertility series, Vol 9, Carnforth, UK: Parthenon Publishing Group. pp. 123-136.

Konigsberg L, Holman DJ (1999) Estimation of age at death from dental emergence and implications for studies of prehistoric somatic growth. In Hoppa RD and Fitzgerald CM (eds) *Human Growth in the Past: Studies from Bones and Teeth*. Cambridge: Cambridge University Press. pp 264-289.

Other publications

Wood JW, O'Connor KA, Holman DJ, Brindle E, Barsom SH, Grimes MA (2001) The evolution of menopause by antagonistic pleiotropy. [Working Paper 01-04](http://csde.washington.edu/downloads/01-04.pdf), <http://csde.washington.edu/downloads/01-04.pdf>, Center for Studies in Demography & Ecology, University of Washington.

Holman DJ (2000) Biology, Culture and Demography: Interdisciplinary Opportunities and Directions in Population Research. *Visions of the Future: New Scientific Opportunities and Emerging Directions in Population Research*. Demographic and Behavioral Sciences Branch, National Institute of Child Health and Development. <http://www.nichd.nih.gov/about/cpr/dbs/sp/holman.htm>.

Holman DJ (1996) *Total Fecundability and Fetal Loss in Rural Bangladesh*. Doctoral Dissertation, The Pennsylvania State University, University Park.

Holman DJ, Sardar AM, Alam N, Chowdhury TA, Bokul LN, Wood JW and Campbell KL (1995) Field Methods of the Pennsylvania State University/International Centre for Diarrhoeal Disease Research, Bangladesh Fetal Loss Study. [Working Paper 95-14](#), Population Research Institute, Pennsylvania State University, University Park.

Book reviews

Holman DJ (2004) Review of Bogin B, *The Growth of Humanity*. *American Journal of Physical Anthropology* **112**(3):433-5.
Holman DJ (2000) Review of Hartl DL and Clark AG *Principles of Population Genetics* in *The American Journal of Physical Anthropology* **112**(3):433-5.

Software

Holman DJ (2003) mle: A programming language for building likelihood models. Version 2.1. Volume 1. User's Manual. and Volume 2, Reference Manual. <http://faculty.washington.edu/~djhholman/mle>.

Holman DJ and Wood JW (1995) *HETFIT: Maximum likelihood estimates of heterogeneous fecundability and sterility. Software and manual*. [Working Paper 95-13](http://www.pop.psu.edu/general/pubs/working_papers/psu-pri/wp9513.pdf), http://www.pop.psu.edu/general/pubs/working_papers/psu-pri/wp9513.pdf, Population Research Institute, The Pennsylvania State University, University Park. <ftp://pop.psu.edu/pub/pop/hetfit>

Recent meeting presentations and abstracts (1995+)

Achterberg JT, Holman DJ. (2006) Sample size requirements for estimating parameters of the Siler model of human mortality. Annual meeting of the Human Biology Association, Anchorage, AK, 8 Mar. Abstract: *American Journal of Human Biology* **18**(2):250.

Yamaguchi K, Holman DJ. (2006) Longitudinal analysis of permanent tooth emergence in Japanese children. Annual meeting of the Human Biology Association, Anchorage, AK, 8 Mar. Abstract: *American Journal of Human Biology* **18**(2):282.

O'Connor KA, Brindle E, Miller RC, Shofer JB, Ferrell RJ, Holman DJ, Mansfield PK (2006) Performance of ovulation detection algorithms using daily and intermittent measures of urinary hormones. Annual meeting of the Human Biology Association, Anchorage, AK, 8 Mar. Abstract: *American Journal of Human Biology* **18**(2):265-266.

Mattison SM, Brunson EK, Holman DJ, Newell-Morris LL, Streissguth A (2006) Palmar creases: classification, reliability, and the relationship to fetal alcohol spectrum disorders. Annual meeting of the Human Biology Association, Anchorage, AK, 8 Mar. Abstract: *American Journal of Human Biology* **18**(2):262-263.

Brunson EK, Holman DJ, Newell-Morris LL, Giovas CM, Streissguth A (2006) The reliability of the *atd* angle in dermatoglyphic analysis. Annual meeting of the American Association of Physical Anthropologists. 10 Mar. Abstract: *American Journal of Physical Anthropology* Suppl. **42**:69.

Achterberg JT, Holman DJ, Grimes MA, O'Connor KA (2005) Postpartum bleeding in rural Bangladeshi women. Annual meeting of the Human Biology Association, Milwaukee, WI, 6 Mar. Abstract: *American Journal of Human Biology* **17**(2):234.

- Brunson EK, Holman DJ, Neill D (2005) Maternal age, paternal age and effective fecundability in rural Bangladesh. Annual meeting of the Human Biology Association, Milwaukee, WI, 6 Mar. Abstract: *American Journal of Human Biology* **17**(2):237.
- Grimes MA, Holman DJ, Brindle E, O'Connor KA (2005) Effects of cortisol, testosterone, and dehydroepiandrosterone (DHEA) on the initiation of breastfeeding in Bangladeshi women. Annual meeting of the Human Biology Association, Milwaukee, WI, 6 Mar. Abstract: *American Journal of Human Biology* **17**(2):242-243.
- Grimes MA, Holman DJ, Brindle E, O'Connor KA (2004) Distributions of postpartum amenorrhea in rural Bangladesh. Human Biology Association, Tampa, FL, 14 Apr. Abstract: *American Journal of Human Biology* **16**(2):206.
- Ferrell RJ, O'Connor KA, Holman DJ, Brindle E, Miller RC, Schechter DE, Gorrindo T, Korshalla L, Simon J, Voda A, Wood JW, Mansfield PK, Weinstein M (2004) The biodemographic models of reproductive aging (BIMORA) project: Methods and steroid hormone and menstrual cycle findings in a five year prospective study of the transition to menopause. Population Association of America, Boston, MA, 2 Apr.
- Campbell KL, O'Connor K, Brindle E, Miller R, Holman DJ (2003) Monitoring of insemination status using DNA in urine sediments: A case study. Society for the Study of Reproduction, Cincinnati. Jul 19-22.
- Holman DJ, Jones RE (2003) Measuring developmental noise in bilateral traits. Human Biology Association, Tempe Arizona. April 25-27. Abstract: *American Journal of Human Biology* **15**:266.
- Grimes MA, Holman DJ, Brindle E, O'Connor KA (2003) Prepartum hormones and initiation of breastfeeding in Bangladeshi women. Human Biology Association, Tempe Arizona. April 25-27. Abstract: *American Journal of Human Biology* **15**:264.
- O'Connor KA, Holman DJ, Brindle E, Miller RC, Schechter DE, Mansfield PK, Weinstein M, Wood JW (2003) Unopposed estrogen across the transition to menopause. Human Biology Association, Tempe Arizona. April 25-27. Abstract: *American Journal of Human Biology* **15**:277.
- Schechter DE, O'Connor KA, Brindle E, Miller RC, Fujita M, Holman DJ, Mansfield PK, Weinstein M, Wood JW, Klein NA (2003) Methodological issues in using menstrual bleed data to estimate menstrual cycle length and reproductive stage. Human Biology Association, Tempe Arizona. April 25-27. Abstract: *American Journal of Human Biology* **15**:282-3.
- Konigsberg LW, Frankenberg SR, Holman DJ (2003) Paleodemography of the Averbuch Site (40DV60). American Association of Physical Anthropologists, Tempe Arizona. April 23-25. Abstract: *American Journal of Physical Anthropology* Suppl 36, 131.
- Tetrick CC, Rees J, Holman DJ (2002) Birth Weight Specific Neonatal Mortality for Native Americans. American Public Health Association, Philadelphia, PA, 9-13 Nov.
- Kuehn C, Newell-Morris L, Holman D, Streissguth A (2002) Handedness and directional dermatoglyphic asymmetry in individuals exposed to alcohol prenatally. American Association of Physical Anthropologists, Buffalo, NY. Abstract: *American Journal of Physical Anthropology* Suppl 34, 98.
- Holman DJ, O'Connor KA, Brindle E, Wood JW, Mansfield PK, Weinstein M (2002) Ovarian follicular development in postmenopausal women. Human Biology Association, Buffalo, NY. Abstract: *American Journal of Human Biology* **14**(1):33.
- Wood JW, Ferrell RJ, DeWitte-Aviña SN, Holman DJ (2002) Mortality differentials during the Black Death in England, 1348-50: A reassessment. Human Biology Association, Buffalo, NY. Abstract: *American Journal of Human Biology* **14**(1):90.
- Neill DB, Holman DJ (2002) The effects of famine, maternal age, and paternal age on fetal loss in rural Bangladesh. Human Biology Association, Buffalo, NY. Abstract: *American Journal of Human Biology* **14**(1):62.
- Holman DJ, Wood JW, O'Connor KA (2001) Fecundability, Pregnancy Loss, and Female Reproductive Aging. Gerontological Society of America, annual meeting, Chicago, Nov 16.
- Tetrick CC, Rees J, Holman DJ (2001) Birth weight specific neonatal mortality for Native Americans: In search of optimal birth weight. Annual meeting of the American Public Health Association. Atlanta, 21-25 Oct.
- Nuckley NB, Holman DJ, Jones RE (2001) Evaluation of mortality bias in deciduous tooth emergence, and implications for paleodemographic age estimation. American Association of Physical Anthropology, annual meeting, Kansas City, MO. Abstract: *American Journal of Physical Anthropology* Suppl 32, 114.
- O'Connor KA, Brindle E, Schechter DE, Benson KB, Holman DJ, Klein NA, Soules MR (2001) Comparison of ultrasound data with four urinary and serum reproductive hormone markers of ovulation. Human Biology Association, annual meeting, Kansas City, MO. Abstract: *American Journal of Human Biology* **13**(1):135-6.

- Grimes MA, Holman DJ (2001) Human variation in early breastfeeding behavior. Human Biology Association, annual meeting, Kansas City, MO. Abstract: *American Journal of Human Biology* **13**(1):122.
- Wood JW, Holman DJ, O'Connor KA (2000) The evolution of menopause by antagonistic pleiotropy. Annual meeting of the German Anthropological Society (joint session with the American Association of Physical Anthropologists) Potsdam, Germany, Aug.
- Holman DJ, O'Connor KA, and Wood JW (2000) Human reproductive aging. American Association of Physical Anthropologists and American Association of Anthropological Genetics annual meetings, San Antonio, 12-15 Apr. (Abstract: *American Journal of Physical Anthropology* Suppl. 30: 182).
- Usher BM, Boldsen J, Holman DJ. (2000) Age estimation at Tirup Cemetery: An application of the transition analysis method. American Association of Physical Anthropologists, San Antonio, Texas. 12-15 Apr. (Abstract: *American Journal of Physical Anthropology* Suppl. 30: 307).
- Steele MS, Holman DJ (2000) Age at menopause in rural Bangladesh. Human Biology Association, 25th annual meeting, San Antonio, Apr. 11 (Abstract: *American Journal of Human Biology* **12**(2):271).
- Grimes MA, Holman DJ (1999) Colostrum feeding behavior and initiation of breastfeeding in rural Bangladesh. American Association of Physical Anthropologists annual meeting, Columbus, OH, 25 Apr.
- Wood JW, O'Connor KA, Holman DJ (1999) Biodemographic models of menopause. Human Biology Association annual meeting, Columbus, OH, 26-28 Apr.
- Konigsburg L and Holman DJ (1998) Theoretical and methodological issues in the study of prehistoric human somatic growth. American Anthropological Association annual meeting, Philadelphia, 2-6 Dec.
- Holman DJ, O'Connor KA, Wood JW and Boldsen J (1998) Estimating population growth rates from skeletal samples. American Anthropological Association annual meeting, Philadelphia, 2-6 Dec.
- Wood JW, Holman DJ, O'Connor KA (1998) Modeling Malthus: Dynamic implications of the principle of population. American Anthropological Association annual meeting, Philadelphia, 2-6 Dec.
- O'Connor KA, Holman DJ, Brindle E, Barsom SH and Wood JW (1998) Reproductive hormones and pregnancy-related sickness in a prospective study of Bangladeshi women. American Association of Physical Anthropologists annual meeting, Salt Lake City, 2-4 Apr 1998. Abstract: *American Journal of Physical Anthropology* Suppl. 26:172.
- Konigsberg LW, Holman DJ and Jones RE (1998) Multivariate probit analysis of deciduous dental emergence. American Association of Physical Anthropologists annual meeting, Salt Lake City, 2-4 Apr 1998. Abstract: *American Journal of Physical Anthropology* Suppl. 26:139-140.
- Brindle E, O'Connor KA, Holman DJ, Kohen F, Campbell KL, Stroud CM, Munro CJ, Lasley BL and Wood JW (1998) Validations of urinary enzyme immunoassays for population-based reproductive ecology research. Human Biology Association annual meeting, Salt Lake City, 1-2 Apr 1998. Abstract: *American Journal of Human Biology* **10**(1):118.
- Wood JW, O'Connor KA, Holman DJ (1998) Natural human fertility: Explaining the 'universal' age pattern. American Association for the Advancement of Science annual meeting, Philadelphia, 12-17 Feb.
- Wood JW, Holman DJ and O'Connor KA (1997) Age and female reproductive function: Identifying the most important biological determinants. International Union for the Scientific Study of Population, Conference on Biodemography, Max Planck Institute, Rostock, 14 Jun.
- Campbell KL and Holman DJ (1997) Thyroxine, T4, and triiodothyronine, T3, distribution among binding components (Thyroid binding globulin, TBG; Albumin, A, Prealbumin, P; and Free, F) and binding protein level shifts. The Endocrine Society annual meeting, Minneapolis, 11-14 Jun.
- Holman DJ, O'Connor KA, Wood JW and Boldsen JL (1997) Correcting for nonstationarity in paleodemographic mortality models. American Association of Physical Anthropologists annual meeting, St. Louis, 3-5 Apr. Abstract: *American Journal of Physical Anthropology* Suppl. 24:132.
- O'Connor KA, Holman DJ, Boldsen J, Wood JW and Gage TB (1997) Competing and mixed hazards models of mortality: osteological applications. American Association of Physical Anthropologists annual meeting, St. Louis, 3-5 Apr. Abstract: *American Journal of Physical Anthropology* Suppl. 24:180.
- Holman DJ, O'Connor KA, Brindle E, Barsom SH, Wood JW and Campbell KL (1997) A model of time to fecund ovulation following fetal loss. Human Biology Association annual meeting, St. Louis, 1-2 Apr. Abstract: *American Journal of Human Biology* **9**(1):132.

- Holman DJ (1997) Stress-related anovulation and early menopause in Bangladeshi women. American Association for the Advancement of Science annual meeting, Seattle, 13-18 Feb.
- Holman DJ, Wood JW and Campbell KL (1996) Human total fecundability and fetal loss. Population Association of America annual meeting, New Orleans, 9-11 May.
- Holman DJ and Kurland JA (1996) Are high-ranking female baboons at higher risk of fetal loss?. American Association of Physical Anthropologists annual meeting, Durham, 11-13 Apr. Abstract: *American Journal of Physical Anthropology*, Suppl. 22:127-8.
- Holman DJ, Wood JW and Campbell, KL (1995) A pregnancy test modified for field studies of fetal loss. The Endocrine Society annual meeting, Washington, DC, 15 Jun.
- Holman DJ, Wood JW and Campbell KL (1995) A prospective study of fetal loss in rural Bangladesh. Population Association of America annual meeting, San Francisco, 8 Apr.
- O'Connor KA and Holman, DJ (1995) Pregnancy-related sickness and fetal loss in rural Bangladesh. Population Association of America annual meeting, San Francisco, 7 Apr.
- Brindle E, Holman DJ, Stroud CM, Wood JW and Campbell KL (1995) Field collection and hormonal analysis of urine samples. American Association of Physical Anthropologists annual meeting, Oakland, 1 Apr. Abstract: *American Journal of Physical Anthropology*, Suppl. 20, pg. 68.
- Holman DJ and Jones RJ (1995) Parametric survival analysis of deciduous tooth emergence in four populations. American Association of Physical Anthropologists annual meeting, Oakland, 1 Apr. Abstract: *American Journal of Physical Anthropology*, Suppl. 20, pg. 113.
- O'Connor KA and Holman DJ (1995) Comparison of maximum likelihood and Bayesian tooth age-at-death distributions. American Association of Physical Anthropologists annual meeting, Oakland, 31 Mar. Abstract: *American Journal of Physical Anthropology*, Suppl. 20, pg. 163.

Recent workshop presentations (1995+)

- Holman DJ (2006) Aging the Basel Sample. Workshop in Paleodemographic Aging Methods. Max Planck Institute for Demographic Research and the Museum of Natural History Basel. April 6-7, Baden, Switzerland.
- Holman DJ (2004) Simulating day-specific probabilities of conception and rates of early pregnancy loss in the presence of ovulation information but absence of daily coital information. Workshop on expanding methodologies for capturing day-specific probabilities of conception. National Institute of Child Health and Development. Bethesda, Maryland D.C., 17-18 May.
- Holman DJ (2004) Aging the Lauchheim sample. Workshop: The Basics in Paleodemography: Calibration of Age Indicators in the Early Medieval Skeletal Sample of Lauchheim. Max Planck Institute for Demographic Research. Lauchheim, Germany, 18 Mar.
- Holman DJ (2003) Biodemographic models of reproductive aging. Workshop and symposium on TREMIN's Research Contributions to Menstrual Cycle Research Over 70 Years, The Pennsylvania State University, University Park, PA, Oct. 17.
- Holman DJ, Usher B, Milner G, Boldsen J, Konigsberg L (2002) Empirical and simulation study of the multivariate latent trait method. Third International Workshop on Future Directions in Paleodemography Max Planck Institute, Rostock Germany, June 6-8.
- Holman DJ, Wood JW, O'Connor KA. (2000) Estimating age-at-death distributions from skeletal samples: A multivariate latent trait approach. Follow-up Workshop on Human Longevity in the Past: New Approaches to Reconstructing Prehistoric Mortality. Max Planck Institute for Demographic Research 4-5 Aug.
- Holman DJ (2000) Emerging opportunities in population research. *Visions of the Future: A town meeting on new directions in population research*. Demographic and Behavioral Sciences Branch, National Institute of Child Health and Development. Held at the annual meeting of the Population Association of America, Los Angeles, 22 Mar.
- Holman DJ (1999) Age-dependent decline in fecundity is due to early fetal loss. Female Reproductive Ageing: 10th Reinier de Graaf Symposium. Zeist, The Netherlands, 9-11 Sept.
- Holman DJ, Wood JW, O'Connor KA. (1999) Estimating age-at-death distributions from skeletal samples: A multivariate latent trait approach. Workshop on Mathematical Modeling for Palaeodemography: Coming to Consensus. Max Planck Institute for Demographic Research, Rostock, Germany, 9-11 Jun.

O'Connor KA and Holman DJ (1997) Declining fecundity with age in natural fertility populations. Workshop on Ovarian Ageing, Utrecht, 14-16 Nov.

Fellowships and honors

- 1995 NIH-NICHD Postdoctoral Fellowship (see *Research grants*).
- 1994 Predoctoral Fellowship, Population Council, for dissertation write-up.
- 1993 Predoctoral Research Fellowship, American Institute of Bangladesh Studies, for fieldwork in Bangladesh.
- 1990 Honorable Mention, National Science Foundation Graduate Research Fellowship Competition.

Research grants (1995+)

- 2005-2010 *International Kuril Island Paleobiogeography Project: Dynamics of Human and Natural Systems in Historic Perspective.*
Funded by: NSF (Biocomplexity).
Investigators: Fitzhugh B [PI], DJ Holman
- 2003-2006 *Effects of Prenatal Alcohol Exposure on Dermatoglyphic Traits.*
Funded by: NIH NIAAA
R21-AA013704.
Investigators: DJ Holman [PI], L Newell-Morris
- 2002-2003 *Fluctuating asymmetry and prenatal exposure to alcohol.*
Funded by: University of Washington, ADAI
Investigators: Newell LL [PI], Holman DJ.
- 1997-2002 *Biodemographic models of reproductive aging*
Funded by: NIH: NIA
R01 AG15141
Investigators: JW Wood [PI], KA O'Connor, DJ Holman, P Mansfield
- 1996-1997 *The biodemography of birthspacing in Bangladesh*
Funded by: Population Research Institute (NIA supplement to PRI's P30 Center Grant)
Biodemography Initiative Grant
Investigators: JW Wood [PI], DJ Holman, CM Stroud, KA O'Connor, RE Jones
- 1996-1997 *Pregnancy-related sickness in rural Bangladesh*
Funded by: NSF
SBR-9600690
Investigators: KA O'Connor, JW Wood [PI], DJ Holman, CM Stroud
- 1995-1998 *Ovarian function in rural Bangladeshi females*
Funded by: NIH: NICHD (Individual National Research Service Award)
F32 HD07994
Investigators: DJ Holman [PI], JW Wood

Teaching

University of Washington

- BIO A 201, Department of Anthropology, *Introduction to Biological Anthropology*. 5 credits, Winter 2001.
- BIO A 382, Department of Anthropology, *Human Population Biology*. 3 credits, Winter 2001.
- BIO A 469, Department of Anthropology, *Seminar in Evolutionary Theory*. 3 credits, Autumn 2002, 2004.
- BIO A 482, Department of Anthropology, *Human Population Genetics*. 5 credits, Autumn 1999, 2001, 2003, Winter 2006.
- BIO A 526, Department of Anthropology, *Quantitative Methods and Modeling for Biocultural Anthropology*. 5 credits, Winter 2000, Spring 2003, Winter 2005.
- BIO A 568, Department of Anthropology, *Human Reproductive Ecology*. 3 credits, Autumn 2000, Spring 2004.

BIO A 584 Department of Anthropology, *Topics in Ecology and Adaptation*. 3 credits, Spring 2004, (Course co-instructor with B. Shell-Duncan).

BIO A 590 Issues Primate Evolution (BASS Seminar) (Autumn 2005).

CSS&S 544 Event History Analysis for the Social Sciences. (Spring 2006).

Advising

Postdoctoral

Shenk, Mary. Center for Studies in Demography and Ecology, University of Washington. Ruth M. Kirchner National Research Service Award (Co-advisor with Shelly Lundberg). *Evolutionary Studies of Marriage and Parenting* (2005).

PhD Completed

Usher, Bethany. Department of Anthropology, Pennsylvania State University. *Health and Mortality at Tirup: An Application of a Multi-State Model*. PhD committee member. PhD awarded Summer 2000.

Reason, Letitia. Department of Anthropology, University of Washington, Seattle. *Cultural Evolutionary Processes and the Transmission of Attitudes Toward Female Genital Cutting Among the Kassena-Nankana of Northern Ghana* PhD committee member. PhD awarded Fall 2002.

Rees, Jane M. Department of Anthropology, University of Washington, Seattle. *A Life History Examination of the Growth vs. Reproductive Effort Trade-Off in African American Adolescent Primigravidas*. PhD committee member. PhD awarded Winter 2004.

Kuecken, Michael. Department of Mathematics, University of Arizona *On the Formation of Fingerprints*, PhD thesis outside reviewer. PhD awarded Spring 2004.

Steele, Matthew A. Department of Anthropology, University of Washington, Seattle. *Male Microbicides, Genital Hygiene and HIV Risk Behavior*. PhD committee member. PhD awarded Spring 2004.

Sarton-Miller, Isabelle. Department of Anthropology, University of Washington, Seattle. *Estimation of Net Energy Expenditure in Exercising Children: A Simple and Non-Invasive Approach Using Delta HR and Regression Modelling*. PhD committee member. PhD awarded Spring 2005.

Masters

Tetrack, Crystal C, Maternal and Child Health Department, University of Washington. *Birth Weight Specific Neonatal Mortality for Native Americans*. Committee member, MPH awarded summer 2001.

Kuehn, Carrie M, Department of Anthropology, University of Washington, *Dermatoglyphic Asymmetry and Handedness in Individuals Exposed to Alcohol Prenatally*. Committee member, MA awarded Fall 2002.

Yamaguchi, Kyoko. Department of Anthropology. *Longitudinal analysis of permanent tooth emergence in Japanese children*. MA committee chair. Degree awarded Winter 2006.

Undergraduate

Schruth, David M, Department of Anthropology, University of Washington. *Estimation of the Age of the Most Recent Common Ancestor of Five Highly Polymorphic ~1kb Human Genomic Loci: a Test of The Late Total Replacement Theory of Modern Human Origins*. Honors thesis advisor, BA awarded Spring 2002.

Updated: 4/28/2006