

## BRIGITTE M. HOLT

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University of Massachusetts  
Department of Anthropology  
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### EDUCATION

Ph.D. (Biological Anthropology)  
M.A. (Biological Anthropology)  
B.A. (Anthropology)

University of Missouri-Columbia, May 1999  
Southern Illinois University-Carbondale- May 1987  
Southern Illinois University-Carbondale,  
(Departmental Honors)- May 1984

### ACADEMIC POSITIONS

2019-present Professor: University of Massachusetts (Department of Anthropology)  
2010-present Associate Professor: University of Massachusetts (Department of Anthropology)  
2005-2010 Assistant Professor: University of Massachusetts (Department of Anthropology)  
2004-2005 Assistant Professor: Grand Valley State University (Department of Anthropology)  
2000-2004 Visiting Assistant Professor: Duke University (Department of Biological Anthropology & Anatomy)  
1999-2000 Visiting Research Associate: University of Missouri (Department of Anthropology)

### RESEARCH INTERESTS

Biocultural evolution of the genus *Homo*, functional morphology and biomechanics of the appendicular skeleton, paleoecology, forager ecology, Old World prehistory, Late Pleistocene/Early Holocene ecology, bone mass and physical activity.

### GRANTS

#### Research grants

#### Funded

2018-2021 National Science Foundation (\$823,630)- (PI, in collaboration with Jonathan Stieglitz, University of Toulouse, France): "Bone strength and physical activity over the life course in a physically active contemporary pre-industrial population".  
2019 MSP Research Support Fund (RSF) (\$1,000)  
2018 MSP Research Support Fund (RSF) (\$1,000)  
2017 MSP Research Support Fund (RSF) (\$1,000)  
2013 Faculty Research Grant/Healey Endowment Grant (\$4,865): "Do high levels of mobility change limb bone structure? A finite element modeling approach".  
2013 National Science Foundation: Dissertation Improvement Grant to Gina Agostini (\$31,387): "Can long bone cross-sectional properties reliably reveal interpopulation genetic distance".  
2009 College of Social and Behavioral Sciences Proposal Preparation Grant  
2007-2010 National Science Foundation (Three-year grant-\$47,066): "On the Verge of Modernity: Post-Pleistocene Evolution of the European Skeleton".  
2007 National Science Foundation (\$4,564): "Age disparities and socioeconomic status in the Terry Collection". (REU to Dannielle Tompkins)  
2001 Josiah Charles Trent Memorial Foundation: Seed money for "Cultures in Contact: The Italian-American Riparo Bombrini Project". Funding to Churchill and Holt- \$5,000  
2000 Center for International Studies (Duke University): "Cultures in Contact: The Italian-American Riparo Bombrini Project". Funding to Churchill and Holt- \$6,064  
1995 National Science Foundation: Dissertation Improvement Grant (\$7,000)

1995 L.S.B. Leakey Foundation: General Research Grant (\$5,000)

#### **Travel Grants**

2010 College of Social and Behavioral Sciences Travel Grant (\$800)

2009 College of Social and Behavioral Sciences Travel Grant (\$860)

#### **Teaching Grants**

2017 Flex Grant for Teaching/Faculty Development (\$500)

2011 Flex Grant for Teaching/Faculty Development (\$1500)

2010 General Education Fellowship (\$2500)

2009 Flex Grant for Teaching/Faculty Development (\$500)

2007 College of Social and Behavioral Sciences Instructional Grant (\$1,123)

2004 Grand Valley State University's Robert and Mary Pew Faculty Teaching and Learning Technology Enhancement Award-\$1,500).

#### **FELLOWSHIPS**

2016-2017 Family Research Scholars Program (University of Massachusetts-CRF)

#### **HONORS**

2008-2010 Chancellor's Junior Faculty Fellow, University of Massachusetts.

#### **PUBLICATIONS**

2019 **Holt B** and Whitley E. The impact of terrain on lower limb bone structure. (*American Journal of Physical Anthropology* 168:729–743.

2019 **Holt B**, Negrino F, Riel-Salvatore J, Formicola V, Arellano A, Arobba D, Boschian G, Churchill SE, Cristiani E., Di Canzio E, Vicino G. The Middle-Upper Paleolithic transition in Northwest Liguria, Italy). *Quaternary International* 508: 142-152.

2018 Agostini G, **Holt B**, Relethford, J. Bone functional adaptation does not erase neutral evolutionary information. *American Journal of Physical Anthropology* 166:709-729.

2018 **Holt B**. Upper Paleolithic populations in *The International Encyclopedia of Biological Anthropology*, Wenda Trevathan (ed). John Wiley and Sons, Inc. (due out in October 2018).

2018 **Holt B**, Ruff CB, Niskanen M, Sladek V. Chapter 5-Temporal and geographic variation in long bone robusticity, in *Skeletal Variation and Adaptation in Europeans: Upper Paleolithic to the Twentieth Century* (Ed. CB Ruff), Hoboken, NJ: Wiley-Blackwell Publishing, pp. 91-132.

2018 **Holt B**, Whitley E, Agostini G, Reedy S, Tompkins D, Ruff CB. Chapter 9-Regional analysis of long bone robusticity change: Italy and France, in *Skeletal Variation and Adaptation in Europeans: Upper Paleolithic to the Twentieth Century* (Ed. CB Ruff), Hoboken, NJ: Wiley-Blackwell Publishing, pp. 241-280.

2018 Niskanen M, Ruff CB, **Holt B**, Sladek V, Berner M,. Chapter 4-Temporal and geographic variation in body size and shape, in *Skeletal Variation and Adaptation in Europeans: Upper Paleolithic to the Twentieth Century* (Ed. CB Ruff), Hoboken, NJ: Wiley-Blackwell Publishing, pp. 49-89.

2018 Berner M, Sladek V, **Holt B**, Niskanen M, Ruff CB. Chapter 6-Sexual dimorphism, in *Skeletal Variation and Adaptation in Europeans: Upper Paleolithic to the Twentieth Century* (Ed. CB Ruff), Hoboken, NJ: Wiley-Blackwell Publishing, pp. 133-161.

- 2018 Sladek V, Berner M, **Holt B**, Niskanen M, Ruff CB. Chapter 7-Past human manipulative behavior in the European Holocene as assessed through upper limb asymmetry, in *Skeletal Variation and Adaptation in Europeans: Upper Paleolithic to the Twentieth Century* (Ed. CB Ruff), Hoboken, NJ: Wiley-Blackwell Publishing, pp. 163-208.
- 2018 Ruff CB and **Holt B**. Chapter 13-The Balkans, in *Skeletal Variation and Adaptation in Europeans: Upper Paleolithic to the Twentieth Century* (Ed. CB Ruff), Hoboken, NJ: Wiley-Blackwell Publishing, pp. 397-418.
- 2018 Ruff CB, **Holt B**, Niskanen M, Sladek V. Berner M. Conclusions, in *Skeletal Variation and Adaptation in Europeans: Upper Paleolithic to the Twentieth Century* (Ed. CB Ruff), Hoboken, NJ: Wiley-Blackwell Publishing, pp. 419-426.
- 2017 Best A, **Holt B**, Troy KL, Hamill J. Trabecular bone in the calcaneus of runners. *PLoS ONE* 12(11).
- 2016 Sladek, V., Ruff, C., Berner, M., **Holt**, B., Niskanen, M., Schuplerova, E., Hora, M. The impact of subsistence changes on humeral bilateral asymmetry in terminal Pleistocene and Holocene Europe. *Journal of Human Evolution* 92, 37-49.
- 2015 **Holt B**. Anatomically Modern Homo sapiens: Origins, biology, and behavior. In *Basics in Human Evolution* (Ed. M Muelhenbein), Elsevier Publishing, pp 177-192.
- 2015 Christopher B. Ruff, Brigitte **Holt**, Markku Niskanen, Vladimir Sladek, Margit Berner, Evan Garofalo, Heather M. Garvin, Martin Hora, Juho-Antti Junno, Eliska Schuplerova, Rosa Vilkkama, and Erin Whittey. Gradual decline in mobility with the adoption of food production in Europe. *PNAS* 112: 7147–7152.
- 2014 Tom Higham, Katerina Douka, Rachel Wood, Christopher Bronk Ramsey, Fiona Brock, Laura Basell, Marta Camps, Alvaro Arrizabalaga, Javier Baena, Cecillio Barroso-Rui'z, Christopher Bergman, Coralie Boitard, Paolo Boscato, Miguel Caparros, Nicholas J. Conard, Christelle Draily, Alain Froment, Bertila Galva'n, Paolo Gambassini, Alejandro Garcia-Moreno, Stefano Grimaldi, Paul Haesaerts, Brigitte **Holt**, Maria-Jose Iriarte-Chiapusso, Arthur Jelinek, Jesu's F. Jorda' Pard. The timing and spatiotemporal patterning of Neanderthal disappearance. *Nature* vol 512, August 21 2014, 306-309.
- 2013 Julien Riel-Salvatore, Ingrid C. Ludeke, Fabio Negrino, Brigitte M. **Holt**. A Spatial Analysis of the Late Mousterian Levels of Riparo Bombrini (Balzi Rossi, Italy). *Canadian Journal of Archaeology* 37: 70-92.
- 2013 **Holt B**, Aggott Z, Vivino G, and Semprebon G. A human tooth from the Mousterian site of Arma delle Månie (Liguria, Italy). *Bulletin du Musée d'Histoire Naturelle de Monaco* Vol 52.
- 2012 Ruff CB, **Holt B**, Niskanen M, Sladek V, Berner M, Garofalo E, Garvin HM, Hora M, Maijanen H, Niinimäki S, Salo K, Schuplerova E, Tompkins. Stature and body mass estimation from skeletal remains in the European Holocene. *American Journal of Physical Anthropology* 148:601-617.
- 2009 **Holt B**, Churchill SE. A biomechanical study of limb robusticity in "l'Homme de la Grotte du Bichon" (Switzerland), in *La Chasse à l'Ours Datée de l'Azilien (Grotte du Bichon)*. Archeologie Neuchateloise, Dossier 3.
- 2008 **Holt**, B. and Formicola V. Hunters of the Ice Age: The biology of Upper Paleolithic people. *Yearbook of Physical Anthropology* 137 (S47):70-99.

- 2008 Formicola V. and **Holt B.** I resti umani del Paleolitico superiore della Liguria Occidentale: Una sintesi sui risultati degli studi recenti. *Bulletin du Musée d'Anthropologie Préhistorique de Monaco*, supplement 1:96-102.
- 2007 Formicola V. and **Holt B.** Resource availability and stature decrease in Upper Paleolithic Europe. *Journal of Anthropological Sciences* 85:153-164.
- 2006a Ruff CB, **Holt B.**, and Trinkaus E. "Wolff's Law" and bone functional adaptation *American Journal of Physical Anthropology* 129:484-498.
- 2006b Ruff CB, **Holt B.**, Sladek W, Berner M. Murphy WA, Nedden D, Seidler H and Recheis W. Body size, body proportions, and mobility in the Tyrolean "Iceman". *Journal of Human Evolution* 51: 91-101
- 2006c Marchi D, Sparacello VS, **Holt BM.**, Formicola V. Biomechanical approach to the reconstruction of activity patterns in Neolithic Western Liguria, Italy. *American Journal of Physical Anthropology* 131:447-455.
- 2004 Del Lucchese A., Formicola V., **Holt B.**, Negrino F., Vicino G.- R "Ligures" ., *Rivista edita dall'Istituto di Studi Liguri*. Riparo Bombrini, Balzi Rossi (Ventimiglia, Imperia): notizie preliminari sugli scavi 2002-2004. Ligures.
- 2003 **Holt, B.** Mobility in Upper Paleolithic and Mesolithic Europe: Evidence from the lower limb. *American Journal of Physical Anthropology*.122:200-215.
- 2003 Trinkaus, E., SE. Churchill, **Holt, B.**, Ruff, CB. Patterns of diaphyseal cross-sectional geometry between central and western European Early / Middle Upper Palaeolithic humans, in *Changements Biologiques et Culturels en Europe de la Fin du Paléolithique Moyen au Néolithique*, Bruzek J., Vandermeersch, B., and Garralda M.D., eds. P. 75-86. Talence: Laboratoire d'Anthropologie des Populations du Passé, Université de Bordeaux.
- 2002 **Holt, B.**, G. Fornaciari, V. Formicola. Bone remodeling following a lower leg fracture in the 11,000-year-old hunter-gatherer from Vado all' Arancio (Italy). *Journal of International Osteoarchaeology* 6:402-406.
- 2001 **Holt, B.** Biomechanical analysis of the femur and tibia from Loschbour: What it tells us about mobility. *Bull. Soc. Préhist. Luxembourgeoise* Vol. 20-21, 1998-99, pp. 327-336.
- 2000 **Holt, B.**, M. Mussi, S.E. Churchill, and V. Formicola. Biological and cultural trends in Upper Paleolithic Europe. *Riv. Antropologia*. 78:179-192.
- 2000 **Holt, B.**, and R.A. Benfer, Jr. Estimating Missing Data: An Iterative Regression Approach. *Journal of Human Evolution* 39(3):289-296.
- 2000 Churchill SE., Formicola V., Holliday TW., **Holt B** and B.A.Schumann. The Upper Paleolithic population of Europe in an evolutionary Perspective, in *Hunters of the Golden Age :The Mid Upper Paleolithic of Eurasia (30,000-20,000 BP)*, Roebroeks W., Mussi M., Svoboda J., and Fennema K., eds. p. 31-57. Leiden: University Press.
- Book Reviews
- 2012 Review of *Human Bioarchaeology of the Transition to Agriculture* (Ron Pinhasi and Jay T. Stock, eds). *American Journal of Physical Anthropology* 149:483-484.
- 2010 Review of Isabelle Crevecoeur, *Etude Anthropologique du Squelette du Paléolithique Supérieur de Nazlet Khater 2 (Egypte)*, Paleorient

### Publications under review

#### *Invited*

**Holt B.** Neandertal femoral and tibial morphology. In *Neandertal Skeletal Anatomy: Form, Function and Paleobiology*, Volume in honor of Erik Trinkaus (Eds. Maddux S and Cowgill L), Cambridge University Press.

### Work Reviewed in Press

2012 by Ann Gibbons- Review of Holt et al's AAPA 2012 presentation (How the Modern Body Shaped Up-*Science Magazine* 336:538-539).

### Press interviews

2018 Interview for *PBS Nova NEXT*-February 23, 2018

2017 Interview for *The Verge* (<https://www.theverge.com/2017/11/29/16712638/prehistoric-women-manual-labor-farming-upper-arm-shinbones-archaeology>)

Interview for *npr.org* (<https://www.npr.org/2017/11/30/567332015/womens-role-in-the-european-agricultural-revolution-revealed>)-November 30, 2017, Morning Edition.

### Symposia Organized

2012 Ruff, C, **Holt, B**, Niskanen, M, Sládek S. "On the Verge of Modernity: Skeletal Adaptation in Recent Europeans". Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon.

2008 **Holt, B.** "Human Ecology, Past and Present". Session organized for the 48th Annual Meeting of the Northeastern Anthropological Association: March 7-9, 2008, Amherst, Mass.

2000 Churchill SE and **Holt, B.** "Beyond Neandertals, before farmers: bio-cultural changes in Late Glacial Europe". Annual Meeting of the American Association of Physical Anthropologists, San Antonio, Texas.

### Invited lectures

2019 *Our body's greatest strength: what 30,000 years of robusticity tells us*-University of Connecticut (Dept Anthropology), March 7<sup>th</sup> 2019.

### Invited Discussant

2017 Symposium: *The Paleobiology of Upper Paleolithic / Later Stone Age Humans* (Organizers: Erik Trinkaus, Sébastien Villotte, Annual Meeting of the American Association of Physical Anthropologists, New Orleans (April 22, 2017)

### **CONFERENCE PRESENTATIONS**

2020 Tabitha Dorshorst, Joseph Hamill, Gillian Weir and Brigitte **Holt**. Archery's Lasting Mark: A Biomechanical Analysis of Archery. 89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, CA. *American Journal of Physical Anthropology* supplement vol. 179 (Issue S69), p. 74.

2019 **Holt B** and Agostini G. Does limb bone structure reflect behavior or ancestry? Engaged Anthropology conference, University of Massachusetts (November 2010)

2019 **Holt B.** Lower mechanization levels are associated with increased age-related limb bone strength in European skeletal samples Annual Meeting of the American Association of Physical Anthropologists, Cleveland, OH. *American Journal of Physical Anthropology* supplement vol. 168 (Issue S68), p. 106.

2019 Dorshorst T and **Holt B.** Impact of subsistence, latitude, and terrain on lower limb bone robusticity in a globally distributed skeletal sample. Annual Meeting of the American

Association of Physical Anthropologists, Cleveland, OH. *American Journal of Physical Anthropology* supplement vol. 168 (Issue S68), p. 61.

- 2018 **Holt B** and Agostini G. Limb bone diaphyseal structure reflects population relationships in a pan-European sample. Annual Meeting of the American Association of Physical Anthropologists, Austin, TX. *American Journal of Physical Anthropology* supplement vol. 165 (Issue S66), p. 24.
- 2018 Berthiaume E and **Holt B**. A Comparative Study of Medieval Population Mortality Profiles as an Indicator of Life History for Rural and Urban Lifeways Annual Meeting of the American Association of Physical Anthropologists, Austin, TX. (*Undergraduate Symposium (April 11-14, 2018)*)
- 2018 Parkinson EW, Stock, JT, Marchi, D, **Holt, B**, Varalli, A, Sparacello V. Physical activity and mobility behaviour in Middle Neolithic Liguria. Istituto Italiano Preistoria e Protostoria Meetings (October 2018 in Genova, Italy)
- 2017 Agostini G and **Holt, B**. Can diaphyseal (cross-sectional) properties of arm and leg bones detect among-population genetic relationships? Annual Meeting of the American Association of Physical Anthropologists, New Orleans, LA. *American Journal of Physical Anthropology* supplement vol. vol. 162 (Issue S64), p. 94.
- 2016 **Holt B** and Whitley E. Mobility and lower limb morphology: the impact of terrain. 1st Annual Meeting of Prehistory and Protohistory Genova (Italy) – 4-5 February 2016. “The Palaeolithic and the Mesolithic in Italy: new research and perspectives”
- 2015 Whitley E and **Holt B**. Effects of terrain on reconstructions of mobility patterns. Annual Meeting of the American Association of Physical Anthropologists, St Louis, Missouri. *American Journal of Physical Anthropology* supplement vol. 156 (Issue S60), p. 323.
- 2012 **Holt, B.**, Ruff, C., Niskanen, M., Sládek, V., Berner, M., Garvin, H., Garofalo, E., Tompkins, D., Junno, J-A., Vilkkama, R. Postcranial robusticity trends in Europe across the last 30,000 years. Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon. *American Journal of Physical Anthropology* supplement vol. 147 (Issue S54), p.:167
- 2012 Ruff, C., **Holt, B.**, Niskanen, M., Sládek, V., Berner, M. New techniques for estimating stature and body mass in European skeletal samples. Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon. *American Journal of Physical Anthropology* supplement vol. 147 (Issue S54), p. 254.
- 2012 Niskanen, M. Ruff, C., **Holt, B.**, Sládek, V., Berner, M., Garvin, H., Garofalo, E., Tompkins, D., Junno, J-A., Niinimäki, S., Salmi, A-K., Salo, K., Heikkilä, T., Vilkkama, R. Temporal trends and regional differences in body size and shape of Europeans from the Late Pleistocene to recent times. Niskanen, M. Ruff, C., Holt, B., Sládek, V., Berner, M., Garvin, H., Garofalo, E., Tompkins, D., Junno, J-A., Niinimäki, S., Salmi, A-K., Salo, K., Heikkilä, T., Vilkkama, R. Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon. *American Journal of Physical Anthropology* supplement vol. 147 (Issue S54), p. 224.
- 2012 Agostini, G., Reed, S., **Holt, B.**, Ruff, C., Niskanen, Sládek, V., Berner, M., Garvin, H., Garofalo, E., Schuplerová, E., Hora, M., Roman, J. Age-related patterns in postcranial robusticity. Annual Meeting of the American Association of Physical Anthropologists,

- Portland, Oregon. *American Journal of Physical Anthropology* supplement vol. 147 (Issue S54), p. 80.
- 2012 Berner, M., Sládek, V., Ruff, C., **Holt**, B., Niskansen, M., Garvin, H., Garofalo, E., Tompkins, D., Galeta, P., Schuplerová, E., Hora, M., Roman, J. Changes in sexual dimorphism in postcranial robusticity and body proportions in European Holocene populations. Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon. *American Journal of Physical Anthropology* supplement vol. 147 (Issue S54), p. 98.
- 2012 Sládek, V., Berner, M., Ruff, C., **Holt**, B., Niskansen, M., Sosna, D., Galeta, P., Velemínský, P., Schuplerová, E., Hora, M., Roman, J., Pankowská, A. Human postcranial morphology: Changes in the Central European Holocene record. Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon. *American Journal of Physical Anthropology* supplement vol. 147 (Issue S54), p. 271.
- 2012 Farkašová, K., Sládek, V., Berner, M., Ruff, C., **Holt**, B., Niskansen, M., Garvin, H., Garofalo, E., Tompkins, D., Sosna, D., Galeta, P., Schuplerová, E., Hora, M., Roman, J. Past human manipulative behavior in the European Holocene as assessed through humeral asymmetry. Annual Meeting of the American Association of Physical Anthropologists, Portland, Oregon. *American Journal of Physical Anthropology* supplement vol. 147 (Issue S54), p. 142.
- 2010 **Holt** B., Radi N., Belcastro G., and Canci A. Do impact forces associated with horseback riding result in stronger femora? Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM. *American Journal of Physical Anthropology* supplement vol. 141 (Issue S50), p. 130.
- 2010 Riga A., and **Holt** B. Do musculoskeletal stress markers correlate with diaphyseal cross-sectional dimensions? Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM. *American Journal of Physical Anthropology* supplement vol. 141 (Issue S50).
- 2009 **Holt** B. Walking on thin ice: Upper Paleolithic mobility and postcranial robusticity. International Congress of the Société d'Anthropologie de Paris. Paris, France, 26<sup>a</sup>-30<sup>a</sup> January 2008
- 2009 Radi N., and **Holt** B. La pratica equestre nell'Età del Bronzo: un primo contributo dall'approccio biomeccanico. 18<sup>a</sup> Congress of the Italian Anthropological Association. October 1-4<sup>a</sup> 2009, Florence, Italy.
- 2009 Riga A., and **Holt** B. Robustezza strutturale e marcatori di stress muscoloscheletrico a confronto. 18<sup>a</sup> Congress of the Italian Anthropological Association. October 1-4<sup>a</sup> 2009, Florence, Italy.
- 2008 **Holt** B. Small, but Healthy, in the Ice Age. Annual Meeting of the Northeastern Anthropological Association: March 7-9, 2008, Amherst, Mass.
- 2007 **Holt** B., and Tompkins D. A test of the relationship between health status and body proportions. Annual Meeting of the American Association of Physical Anthropologists, Philadelphia. *American Journal of Physical Anthropology* supplement vol. 132 (S44), p. 131.
- 2006 **Holt** B., F. Negrino, V. Formicola, J. Riel-Salvatore, S.E. Churchill, G. Vicino, and A. Del Lucchese, The Mousterian-Aurignacian transition at Riparo Bombrini (Liguria, Italy). Annual Meeting of the Paleoanthropological Association. San Juan, Puerto Rico.

- 2005 **Holt B.**, Marchi D., Sparacello V., Formicola V., Churchill S. Activity patterns in Upper Paleolithic and Neolithic Liguria: a diachronic analysis. Meeting of the Italian Anthropological Society, Genova, Italy (October 29-31, 2005)
- 2004 **Holt, B.**, Ruff, C.B., and Trinkaus E. The Wolff's law debate: Throwing out the water, but keeping the baby. Annual Meeting of the American Association of Physical Anthropologists, Tempa, Florida, *American Journal of Physical Anthropology* supplement vol. 123 (S38), p. 115.
- 2003 **HoltB.**, S.E. Churchill, F. Negrino, V. Formicola, G. Vicino, A. Del Lucchese. New evidence of the Middle-Upper Paleolithic transition from Riparo Bombrini (Grimaldi, Italy). Annual Meeting of the Paleoanthropological Association. Tempe, Arizona.
- 2001 **Holt B.**, G. Fornaciari, V. Formicola. Bone remodeling following a lower leg fracture in a Late Upper Paleolithic skeleton (Vado all' Arancio I, Italy). Annual Meeting of Paleopathology Association, Kansas City, Missouri.
- 2000 **Holt, B.** and S.E. Churchill. Behavioral changes in European Upper Paleolithic foragers: Evidence from biomechanical analysis of the appendicular skeleton. *American Journal of Physical Anthropology* supplement 30:182 Annual Meeting of the American Association of Physical Anthropologists, San Antonio, Texas. (Symposium "Beyond Neandertals, before farmers: bio-cultural changes in Late Glacial Europe", organized by S. Churchill and B. **Holt**).
- 1998 **Holt, B.** Lower limb skeletal structural adaptation in Upper Paleolithic and Mesolithic Europeans. *American Journal of Physical Anthropology* supplement 26:123. Annual Meeting of the American Association of Physical Anthropologists, Salt Lake City, Utah.
- 1997 **Holt, B.** Postcranial robusticity and mobility changes in European Upper Paleolithic and Mesolithic humans. *American Journal of Physical Anthropology* supplement 24:132. Annual Meeting of the American Association of Physical Anthropologists, Saint Louis, Missouri.