laura Lynn Shackelford

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EDUCATION

Washington University St. Louis, MO Anthropology Ph.D. 2005

Doctoral thesis: *Regional Variation in the Postcranial Robusticity of Late Upper Paleolithic Humans*

Washington University St. Louis, MO Anthropology M.A. 2001

Duke University Durham, NC Biological Anthropology & Anatomy B.S. 1998

appointments

**University of Illinois at Urbana-Champaign**

Associate Professor, Carle Illinois College of Medicine 4/2017-present

Associate Professor, Dept. of Anthropology 2014-present

Associate Professor, College of Medicine, Dept. of Surgery 2014-present

Assistant Professor, Dept. of Anthropology 2007-2014

Assistant Professor, College of Medicine, Dept. of Surgery 2007-2014

Visiting Assistant Professor, Dept. of Anthropology 2005-2007

Books

Bacon A-M, Demeter F, Sayavongkhamdy T, Duringer P, Patole-Edoumba E, Coupey A-S, **Shackelford L**, Westaway K, Ponche J-L, Antoine P-O, Sichanthongtip P (2012). *Les sites de Tam Hang, Nam Lot et Tam Pa Ling au nord du Laos.* *Des gisements à vertébrés du Pléistocène aux origins des Hommes modernes*. CNRS Editions: Paris. In French.

Articles and Book Chapters

Corny J, Galland M, Arzarello M, Bacon A-M, Demeter F, Grimaud-Herve D, Higham C, Matsumura H, Cuong NL, Thuy NTK, Nguyen V, Oxenham M, Sayavongkhamdy T, Semah F, **Shackelford LL**, Detroit F (in press). Dental phenotypic shape variation supports a multiple dispersal model for anatomically modern humans in Southeast Asia. J Hum Evol <http://dx.doi.org/10.1016/j.jhevol.2017.08.017> .

Demeter F, **Shackelford L**, Westaway K, Barnes L, Duringer P, et al. (in press). Tam Pa Ling, Laos: a milestone in the early human fossil record from mainland Southeast Asia. Curr. Anthropol.

**Shackelford L**, Demeter, F, Westaway K, Duringer P, Ponche J-L, et al. (2017). Additional evidence for early modern human morphological diversity in Southeast Asia at Tam Pa Ling, Laos. Quat Intl. <https://doi.org/10.1016/j.quaint.2016.12.002> .

Sparacello V, Villotte S, Shackelford L, Trinkaus E (2017). Patterns of humeral asymmetry among Late Pleistocene humans. C R Palevol. <http://dx.doi.org/10.1016/j.crpv.2016.09.001>

Willman J, **Shackelford L**, Demeter F (2016). Incisor avulsion among the Late Upper Paleolithic people of Tam Hang (Northern Laos): Social identify, mortuary practice, and oral health. Am J Phys Anthropol 160(3): 519-528.

Demeter F, **Shackelford L**, Westaway K, Duringer P, Bacon A-M, et al. (2015). Early modern humans and morphological variation in Southeast Asia: fossil evidence from Laos. *PLOS One* 10(4): DOI: 10.1371/journal.pone.0121193.

Bacon A-M, Westaway K, Antoine P-O, Duringer P, Amandine B, Demeter F, Ponche J-L, Zhao J-X, Barnes LM, Sayavonkhamdy T, Nguyen TK, Long VT, Patole-Edoumba E, **Shackelford L** (2015). Late Pleistocene mammalian assemblages of Southeast Asia: new dating, mortality profiles and evolution of the predator-prey relationships in an environmental context. *Palaeogeog, Palaeoclimatol, Palaeoecol* 422: 101-127.

Patole-Edoumba E, Duringer P, Richardin P, **Shackelford L**, Bacon A-M, et al. (2015). Evolution of the Hoabinhian techno-complex of Tam Hang rock shelter in Northeastern Laos. Archaeolog Disc 3: 140-157.

**Shackelford** **LL** (2014). Bone strength and subsistence activities at Point Hope. In Auerbach B, Cowgill L, Hilton C, eds. *The Foragers of Point Hope: the biology and archaeology of humans on the edge of the Alaskan arctic*. Cambridge University Press.

**Shackelford LL** (2014).Variation in mobility and anatomical strategies in the Late Pleistocene. In Carlson K, Marchi D, eds. *Mobility: towards a definition for application in Human Evolution*. Springer.

**Shackelford LL**, Marshall F, Peters J (2013). Identifying domestication of the donkey through changes in cross-sectional geometry of long bones. *J Archaeolog Sci* 40: 4170-4179.

Bacon A-M, Demeter F, Sayavongkhamdy T, Duringer P, Patole-Edoumba E, Coupey A-S, **Shackelford L**, et al. (2012). *Les sites de Tam Hang, Nam Lot et Tam Pa Ling au nord du Laos.* *Des gisements à vertébrés du Pléistocène aux origins des Hommes modernes*. CNRS Editions: Paris. In French.

Demeter F, **Shackelford L**, Bacon A-M, Duringer P, Westaway K, et al. (2012). An anatomically modern human in Southeast Asia (Laos) by 46 ka. *Proc Natl Acad Sci USA* 109(36): 14375-14380.

**Shackelford LL,** Demeter F (2012). The place of Tam Hang in Southeast Asian human evolution. *Palevol* 11(2-3): 97-115.

**Shackelford LL**, Stinespring A, Konigsberg L (2012). Estimating the distribution of probable age-at-death from dental remains of immature human fossils. *Am J Phys Anthropol* 147(2) : 227-253*.*

**Shackelford LL** (2011). Descriptive and comparative study of the lower limb. In Rougier H, Semal P, eds. *Spy Cave: State of 125 years of pluridisciplinary research on the Betche-aux-Rotches from Spy (Jemeppe-sur-Sambre, Province of Namur, Belgium).* Royal Belgian Institute of Natural Sciences and NESPOS Society: Brussels.

Stock JT, O’Neill MC, Ruff CB, Zabecki M, **Shackelford LL**, et al. (2011). Body size, skeletal biomechanics, mobility and habitual activity from the Late Palaeolithic to the Mid-Dynastic Nile Valley. In Pinhasi R, Stock JT, eds. *Human* *Bioarchaeology of the Transition to Agriculture*. Wiley-Blackwell: West Sussex. Pp 347-370.

Bacon A-M, Duringer P, Antoine P-O, Demeter F, **Shackelford L**, Sayavongkhamdy T, et al. (2011). The Middle Pleistocene mammalian fauna from Tam Hang karstic deposit, northern Laos: New data and evolutionary hypothesis. *Quat Intl 245: 315-332*.

**Shackelford LL** (2007). Postcranial evidence for regional variation in the Late Pleistocene. *Am J Phys Anthropol 133(1)*: 655-668.

Trinkaus E, Smith FH, Stockton TC and **Shackelford LL** (2005). The human postcranial remains from Mladec. In: Teschler-Nicola M, ed. *The Human Remains from Mladec*. Vienna: Springer Verlag.

Churchill SE, **Shackelford LL**, Georgi JN and Black MT (2004). Morphological variation and airflow dynamics in the human nose. *Am J Hum Biol 16(6)*: 625-638.

**Shackelford LL** and Trinkaus E (2002). Late Pleistocene human femoral diaphyseal curvature. *Am J Phys Anthropol 118(4)*: 359-370.

ABSTRACTS

Zachwieja, A., **Shackelford L**. 2017. Paleobiology, competition and migration in Late Pleistocene Southeast Asia. *Am J Phys Anthropol* S64: 355.

Demeter F, **Shackelford LL**, Braga J, Westaway K, Duringer P, et al. (2015). Early modern humans and morphological variation in Southeast Asia: fossil evidence from Tam Pa Ling, Laos. *Am J Phys Anthropolog* S60: 119.

Fox M, **Shackelford LL** (2015). Morphology and locomotor function of the hominin pubis. *Am J Phys Anthropol* S60: 136.

Zachwieja AJ, **Shackelford LL** (2014). Post-Pleistocene gracilization and the effects of terrain on the lower limbs of modern humans. *Am J Phys Anthropol*. 153(S58): 280.

Demeter F, **Shackelford L**, Braga J, Westaway K, Duringer P, et al. (2014). The Tam Pa Ling case: where archaic and modern humans met. 20th Indo-Pacific Prehistory Association Congress.

**Shackelford LL,** Demeter F, Bacon A-M, Duringer P, Westaway K, et al. (2013). Mosaic traits of the human mandible from Tam Pa Ling, Laos at 46 ka. *Paleoanthropol 2013:*A34.

**Shackelford LL**, Demeter F, Bacon A-M, Duringer P, Westaway K, et al. (2012). Modern human fossils from Tam Pa Ling, Laos. *Am J Phys Anthropol 147 (S54):266-267*.

**Shackelford L** (2011). What does mobility look like in the Late Pleistocene? *Am J Phys Anthropol* 144(S52): 271.

Stinespring A, **Shackelford LL**, Konigsberg L (2011). Estimating the distribution of probable age-at-death from the dental remains of immature human fossils. *Am J Phys Anthropol* 144(S52): 156.

Jungers W, Farke A, Sutikna, T, Ruff C, **Shackelford L**, Stock J, *et al*. (2010). Long-bone geometry and skeletal biomechanics in *Homo floresiensis*. *Am J Phys Anthropol* 141(S50).

**Shackelford LL**, Demeter F, Bacon A-M, Duringer P, Edoumba E, Sayavaongkhamdy T, *et al*. (2008). Results from early excavation at Tam Hang, Laos. *Am J Phys Anthropol* 138(S48): 235.

**Shackelford LL** (2006). Long bone robusticity and behavioral variability in the Inuit sample from Point Hope, Alaska. *Am J Phys Anthropol* 129(S42):163.

**Shackelford LL** (2006). Postcranial anatomy and robusticity in Tam Hang, Laos. 18th Indo-Pacific Prehistory Association Congress.

**Shackelford LL** (2005). Regional variation in Late Pleistocene human postcranial robusticity. *Paleoanthropol* A31.

**Shackelford LL** (2004). Behavioral adaptations in a Late Upper Paleolithic Southeast Asian population (Tam Hang, Laos). *Am J Phys Anthropol* 123(S38): 179.

**Shackelford LL** (2003). Late Pleistocene Postcranial Skeletal Remains from Tam Hang (Laos). *Am J Phys Anthropol* 120(S36): 189.

**Shackelford LL**, Trinkaus E (2001). Late Pleistocene human anterior femoral curvature. *Am J Phys Anthropol* 114(S32): 135.

Churchill SE, **Shackelford LL**, Georgi JN, Black MT (1999). Airflow dynamics in the Neandertal nose. *J Hum Evol* 36(4): A5.

Georgi JN, Churchill SE, **Shackelford LL**, Black MT (1999). Nasal valve function and location as determined by *in vitro* fluid flow studies. *Am J Phys Anthropol* 108(S28): 133-134.

Churchill SE, **Shackelford LL**, Georgi JN, Black MT (1999). Morphological variation in the upper respiratory tract and airflow dynamics. *Am J Phys Anthropol* 108(S28): 107.

Bulletins, Reports & Conference Proceedings

Bacon A-M, **Shackelford LL**, Demeter F. (2014). Le site de Pa Hang au Laos: Histoire des premiers homes modernes dans le Sud-est de l’Asie. Rapport 2011-2014. Presented to the Ministry of Foreign Affairs, France and Ministry of Culture, Vientiane, Laos.

**Shackelford LL**. (2011). Paleoanthropology in Mainland Southeast Asia: Excavation at Tam Hang Laos. Final report to L.S.B. Leakey Foundation. [http://leakeyfoundation.org/wp-content/uploads/Reports/Shackelford,L-final\_report-F2011.pdf](http://leakeyfoundation.org/wp-content/uploads/Reports/Shackelford%2CL-final_report-F2011.pdf)

GRANTS

NSF IIS 17-36235 Cyberlearning and Future Learning Technologies 10/2017-10/2019

 *EXP: Social science education through virtual reality simulation and game-based learning*

Wenner-Gren (PI: Demeter F, co-PI: Shackelford LL) 1/2017-12/2019

 *Early modern human evolution and dispersal in mainland Southeast Asia at Tam Pa Ling cave,*

 *Laos*

Illinois Learning Sciences Design Initiative Phase II Grant 2016

Illinois Learning Sciences Design Initiative Phase I Seed Funding Grant 2015

Arnold O. Beckman Research Award, UIUC Research Board 2012

UIUC Scholar’s travel grant 2012

Hewlett Foundation International Research grant 2011

UIUC Research Board 2009

L.S.B. Leakey Foundation 2007-2008

UIUC Research Board 2007

UIUC Travel grant 2006

NSF Doctoral Dissertation Research grant BCS-0314002 2003-2004

*PI: Trinkaus E, co-PI: Shackelford LL*

American Museum of Natural History Collection Study grant 2002-2003

Sigma Xi 2002

Recent invited lectures and conference presentations

American Association of Physical Anthropology, New Orleans, LA April 2017

Symposium: The paleobiology of Upper Paleolithic/Later Stone Age humans

IEEE Aerospace Conference, Big Sky, Montana March 2017

Plenary speaker: Human Evolution: a view from the East

Lao National Museum, Vientiane, Laos April 2016

American Association of Physical Anthropology, St. Louis, MO April 2015

Illinois State Geological Survey Seminar Series, UIUC September 2012

Anatomy Lecture Series, University of Tennessee, Knoxville March 2011

French Embassy, Vientiane, Laos December 2011

Program in Ecology & Evolutionary Biology, UIUC April 2011

American Association of Physical Anthropology, Minneapolis, MN April 2011

Symposium: Mobility: Towards a definition for application in human evolution

French Embassy, Vientiane, Laos December 2010

Community Medical School, Carle Hospital, Urbana IL April 2007

Indo-Pacific Prehistory Association, Manila, Philippines March 2006

American Association of Physical Anthropology, Anchorage, AK March 2006

Symposium: Pre-Contact forager adaptations to NW Coastal Alaska: the bioarchaeology of Pt. Hope

Courses taught

BMS 622 & 623 Human Anatomy I and II, College of Medicine

ANTH 102 Human Origins and Culture

ANTH 399, 499 Biology of the Neandertals

ANTH 435 The Neandertal Debate

ANTH 440 Human Paleontology

ANTH 456 Human Osteology

ANSC 298 Africa Wildlife Discovery in South Africa (Study abroad)

Review panels

**Journals & Books**:

American Journal of Physical Anthropology

Cambridge University Press

Journal of Human Biology

Journal of Human Evolution

Midcontinental Journal of Archaeology

**Granting Agencies:**

Hewlett Foundation Review Committee for International Research Travel Grants

Leakey Foundation Scientific Executive Committee for grant review

UIUC Research Board grant review committee

National Science Foundation

National Geographic Society

Doctoral students supervised:

**Primary advisor for:**

Alexandra Zachwieja (entered program Fall 2013; ABD Fall 2016)

Tyler Dunn (entered program Fall 2014; ABD Spring 2017)

Natasha Mazumdar (co-advised with Dr. John Polk; entered program Fall 2014)

Thesis committee for:

Maria Fox (entered program Fall 2013; ABD Spring 2017)

Matthew Go (entered program Fall 2015; ABD Spring 2017)

Katie Lee (entered program Fall 2014; ABD Spring 2016)

Amanda Lee (entered program Fall 2015)

Ashley Stinespring (entered program Fall 2009; ABD Spring 2012)

Scott Williams, Ph.D., 2011

Krista Milich, Ph.D., 2012

Natalie Uhl, Ph.D., Spring 2014

John Lindo, Ph.D., Spring 2015