

LAURA LYNN SHACKELFORD

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Urbana, IL 61801

APPOINTMENTS AND AFFILIATIONS

University of Illinois Urbana-Champaign, Urbana, IL

1/2022-present	Faculty Affiliate, Game Studies & Design Program
8/2021-present	Professor, Dept. of Anthropology
8/2021-present	Professor, Dept. of Biomedical & Translational Sciences, Carle Illinois College of Medicine
2017-present	Anatomy Thread Director, Carle Illinois College of Medicine
2020-present	Faculty Affiliate, Center for Social & Behavior Sciences
2019-present	Faculty Affiliate, Dept. of Informatics
2014-2021	Associate Professor, Dept. of Anthropology
2017-2021	Associate Professor, Carle Illinois College of Medicine
2014-2017	Associate Professor, Dept. of Surgery, UIUC College of Medicine
2007-2014	Assistant Professor, Dept. of Anthropology
2007-2014	Assistant Professor, Dept. of Surgery, UIUC College of Medicine
2005-2007	Visiting Assistant Professor, Dept. of Anthropology

Texas A&M University, College Station, TX

2017-present	Faculty Affiliate, Dept. of Anthropology
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EDUCATION

2005	Washington University, St. Louis, MO Ph.D., Anthropology Dissertation: <i>Regional variation in the postcranial robusticity of Late Upper Paleolithic humans</i>
2001	Washington University, St. Louis, MO M.A., Anthropology
1998	Duke University, Durham, NC, B.S., Biological Anthropology & Anatomy

GRANTS

2020-2023	Shackelford LL, Huang, D. National Science Foundation: IUSE 2021460: <i>Game-based learning in virtual reality to engage college students using wheelchairs: Test case for field training in archaeology.</i> \$296,426.
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- 2020 Shackelford LL, Merrill C. **Epic Games MegaGrant**. *Virtual Archaeology*. \$25,000.
- 2018-2020 Shackelford L. **National Geographic NGS-399R-18**. *Quest for human origins in mainland Southeast Asia: Tam Pa Ling cave, Laos*. \$50,000
- 2017-2020 Shackelford L, Huang D & LaValle S. **National Science Foundation IIS #17-36235: EXP: Social Science Education through Virtual Reality Simulation of an Archaeological Research Site**. \$525,985.
- 2017-2019 Demeter F, Shackelford LL. **Wenner-Gren Foundation**. *Early modern human evolution and dispersal in mainland Southeast Asia at Tam Pa Ling cave, Laos*. \$20,000.
- 2011 Shackelford LL. **Hewlett Foundation International Research Travel Grant**, \$2,500.
- 2007-08 Shackelford LL. **L.S.B. Leakey Foundation**, \$8,165.
- 2003-04 Trinkaus E, Shackelford LL. **National Science Foundation Doctoral Dissertation Research grant BCS-0314002**. \$10,790.
- 2002-03 Shackelford LL. **American Museum of Natural History Collection Study Grant**, \$1,500.
- 2002 Shackelford LL. **Sigma Xi Grant-in-aid of research**, \$500.

Internal Grants

- 2019 Clancy K, Shackelford L, Lara-Cinisomo S. **Illinois SBSRI**. *Life history and hormones: mechanisms linking childhood experiences to women's health*.
- 2016 Shackelford LL, LaValle S, Craig AB. **ILSDI Phase II Grant**. *Digital Archaeology: Virtual reality in social science education*.
- 2015 Aldridge B, Shackelford LL, Malnar J, Craig AB, Helms K, Sinn-Hanlon J, Edwards K, and del Cristo MM. **ILSDI Phase I Grant**. *Teaching and Learning in the Three-Dimensional World*.
- 2013 Shackelford LL. **UIUC Scholars' Travel Award** (#13334).
- 2012 Shackelford LL. **UIUC Arnold O. Beckman Research Award**, UIUC Research Board.
- 2011 Shackelford LL. **UIUC Scholars' Travel Award** (#12376).
- 2009 Shackelford LL. **UIUC Research Board**.
- 2007 Shackelford LL. **UIUC Research Board**.
- 2006 Shackelford LL. Anthropology Department travel grant.

PUBLICATIONS

Books and Book Chapters

- 2021 Shackelford L, Bacon A-M, Demeter F. Tam Pa Ling and the Eastern Asian Hominin Fossil Record. In Coppens Y, Viallet A, eds. *Un Bouquet D'Ancetres*.

- Premiers humains: qui était qui, qui a fait quoi, où et quand?* Académie Pontificale des Sciences, CNRS Éditions: Paris. p. 359-381. In English and French.
- 2014 Shackelford LL. 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.
- 2014 Shackelford LL. 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.
- 2012 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. *Les sites de Tam Hang, Nam Lot et Tam Pa Ling au nord du Laos. Des gisements à vertébrés du Pléistocène aux origines des Hommes modernes*. CNRS Editions: Paris. In French.
- 2011 Shackelford LL. 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.
- 2011 Stock JT, O'Neill MC, Ruff CB, Zabecki M, Shackelford LL, et al. 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.
- 2005 Trinkaus E, Smith FH, Stockton TC and Shackelford LL. The human postcranial remains from Mladec. In: Teschler-Nicola M, ed. *The Human Remains from Mladec*. Vienna: Springer Verlag.

Selected Journal Articles (mentored or advised students underlined)

- 2022 Demeter F, Zanolli C, Westaway K, Joannes-Boyau R, Duringer P, Morley M, Welker F, Rùther PL, Skinner M, McColl H, Gaunitz C, Vinner L, Dunn TE, Olsen J, Sikora M, Ponche J-L, Suzzoni E, Frangeul S, Boesch Q, Antoine P-O, Pan L, Xing S, Zhao J-X, Bailey R, Boualaphane S, Sichanthongtip P, Sihanam D, Patole-Edoumba E, Aubaile F, Crozier F, Bourgon N, Zachwieja A, Luangkhoth T, Souksavatdy V, Sayavongkhamdy T, Cappellini E, Bacon A-M, Hublin J-J, Willerslev E, and Shackelford L. A Middle Pleistocene Denisovan molar from the Annamite Chain of northern Laos. *Nature Comm*
- 2022 Yarlagadda K, Zachwieja AJ, de Flamingh A, Phungviwatnikul T, Rivera-Colón AG, Roseman C, Shackelford L, Swanson KS, Malhi RS. Geographically diverse canid sampling provides novel insights into pre-industrial microbiomes. *Proc R Soc B* 20220052. <https://doi.org/10.1098/rspb.2022.0052>
- 2021 Shackelford L, Bacon A-M, Demeter F. Tam Pà Ling and the Eastern Asian Hominin Fossil Record. *Comptes Rendu Palevol*.

- 2021 Bacon A-M, Bourgon N, Welker F, et al. A multi-proxy approach to exploring *Homo sapiens*' arrival, environments and adaptations in Southeast Asia. *Scientific Reports* 11: 21080. <https://doi.org/10.1038/s41598-021-99931-4>
- 2021 Bourgon N, Jaouen K, Bacon A-M, et. al. Trophic ecology of a Late Pleistocene early modern human from tropical Southeast Asia inferred from zinc isotopes. *Journal of Human Evolution* 161: 103075. <https://doi.org/10.1016/j.jhevol.2021.103075>
- 2021 Chen V, Shackelford L, Spain M. Pelvic floor dysfunction after hysterectomy: Moving the investigation forward. *Cureus* 13(6):e15661. doi: 10.7759/cureus.15661.
- 2021 Galvez R, Wallon RC, Shackelford L, Amos J, Rowen J. Use of virtual reality to educate undergraduate medical students on cardiac peripheral and collateral circulation. *Medical Science Educator* 31(1): 19-22 <https://doi.org/10.1007/s40670-020-01104-x>.
- 2020 Zachwieja AJ, Bacon A-M, Nguyen TMH, Nguyen AT, Westaway K, Durringer P, Ponche J-L, Patole-Edoumba E, Sichanthongtip P, Sayavongkhamdy, Dunn TE, Demeter F, Shackelford LL. Understanding Late Pleistocene human land preference using ecological niche models in an Australasian test case. *Quaternary International* 563: 13-28. [10.1016/j.quaint.2020.09.026](https://doi.org/10.1016/j.quaint.2020.09.026)
- 2020 Bourgon N, Jaouen K, Bacon A-M, Jochum KP, Dufour E, et al. Zinc isotopes in Late Pleistocene fossil teeth from a Southeast Asian cave setting preserve paleodietary information. *Proceedings of the National Academy of Sciences USA* 117(9): 4675-4681. <https://doi.org/10.1073/pnas.1911744117>
- 2019 Shackelford L, Huang WD, Craig A, Merrill C, Chen D. Relationships between motivational support and game features in a game-based virtual reality learning environment for teaching introductory archaeology. *Educational Media International*. <https://doi.org/10.1080/09523987.2019.1669946>.
- 2019 Shackelford L, Huang WD, Craig A, Merrill C, Chen D, Chao X, Arjona J. Relationships between cognitive loads and motivational support in a virtual reality game-based learning system for teaching introductory archaeology. 2019 E-Learn: World Conference on E-learning, New Orleans, LA, USA.
- 2018 Shackelford L, Huang WD, Craig A, Merrill C, Chen D, Arjona J. A formative evaluation on a virtual reality game-based learning system for teaching introductory archaeology. In *Proceedings of E-Learn: World conference on E-learning in Corporate, Government, Healthcare, and Higher Education*. United States Association for the Advancement of Computing in Education. pp. 605-611. <https://www.learntechlib.org/primary/p/185014/>
- 2018 Bacon A-M, Bourgon N, Dufour E, Zanolli C, Durringer P, Ponche JL, Antoine P-O, Shackelford L, et al. Nam Lot (MIS 5) and Duoi U'Oi (MIS 4) Southeast Asian sites revisited: Zooarchaeological and isotopic evidence. *Palaeogeography, Palaeoclimatology, Palaeoecology*. <https://doi.org/10.1016/j.palaeo.2018.03.034>
- 2018 Milano S, Demeter F, Hublin J-J, Durringer P, Patole-Edoumba E, Ponche J-L, Shackelford L, et al. Environmental conditions framing the first evidence of modern

- humans at Tam Pa Ling, Laos: a stable isotope record from terrestrial gastropod carbonates. *Palaeogeography, Palaeoclimatology, Palaeoecology* 511: 352-363. <https://doi.org/10.1016/j.palaeo.2018.08.020>
- 2018 McColl H, Racimo F, Vinner L., et al. The prehistoric peopling of Southeast Asia. *Science* 361(6397): 88-92. <https://doi.org/10.1126/science.aat3628>
- 2017 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. Dental phenotypic shape variation supports a multiple dispersal model for anatomically modern humans in Southeast Asia. *Journal of Human Evolution* 112: 41-56. <http://dx.doi.org/10.1016/j.jhevol.2017.08.017> .
- 2017 Demeter F, Shackelford L, Westaway K, Barnes L, Durringer P, et al. Early modern humans from Tam Pa Ling, Laos: fossil review and perspectives. *Current Anthropology* 58(S17): S527-S538. <https://www.journals.uchicago.edu/doi/full/10.1086/694192>
- 2017 Shackelford L, Demeter, F, Westaway K, Durringer P, Ponche J-L, et al. Additional evidence for early modern human morphological diversity in Southeast Asia at Tam Pa Ling, Laos. *Quaternary International* 466A: 93-106. <https://doi.org/10.1016/j.quaint.2016.12.002> .
- 2017 Sparacello V, Villotte S, Shackelford L, Trinkaus E. Patterns of humeral asymmetry among Late Pleistocene humans. *Comptes Rendus Palevol* 16(5-6): 680-689. <http://dx.doi.org/10.1016/j.crvp.2016.09.001>
- 2016 Willman J, Shackelford L, Demeter F. Incisor avulsion among the Late Upper Paleolithic people of Tam Hang (Northern Laos): Social identity, mortuary practice, and oral health. *American Journal of Physical Anthropology* 160(3): 519-528. <http://dx.doi.org/10.1002/ajpa.22988>
- 2015 Demeter F, Shackelford L, Westaway K, Durringer P, Bacon A-M, et al. Early modern humans and morphological variation in Southeast Asia: fossil evidence from Laos. *PLOS One* 10(4): <https://doi.org/10.1371/journal.pone.0121193>.
- 2015 Bacon A-M, Westaway K, Antoine P-O, Durringer P, Amandine B, Demeter F, Ponche J-L, Zhao J-X, Barnes LM, Sayavonkhamdy T, Nguyen TK, Long VT, Patole-Edoumba E, Shackelford L. Late Pleistocene mammalian assemblages of Southeast Asia: new dating, mortality profiles and evolution of the predator-prey relationships in an environmental context. *Palaeogeography, Palaeoclimatology, Palaeoecology* 422: 101-127. <https://doi.org/10.1016/j.palaeo.2015.01.011>
- 2015 Patole-Edoumba E, Durringer P, Richardin P, Shackelford L, Bacon A-M, et al. Evolution of the Hoabinhian techno-complex of Tam Hang rock shelter in Northeastern Laos. *Archaeological Discovery* 3:140-157. [10.4236/ad.2015.34013](https://doi.org/10.4236/ad.2015.34013)
- 2013 Shackelford LL, Marshall F, Peters J. Identifying domestication of the donkey through changes in cross-sectional geometry of long bones. *Journal of Archaeological Science* 40: 4170-4179. <https://doi.org/10.1016/j.jas.2013.06.006>

- 2012 Demeter F, Shackelford L, Bacon A-M, Durringer P, Westaway K, et al. An anatomically modern human in Southeast Asia (Laos) by 46 ka. *Proceedings of the National Academy of Sciences USA* 109(36): 14375-14380. <https://doi.org/10.1073/pnas.1208104109>
- 2012 Shackelford LL, Demeter F (2012). The place of Tam Hang in Southeast Asian human evolution. *Comptes Rendu Palevol* 11(2-3): 97-115. <https://doi.org/10.1016/j.crpv.2011.07.002>
- 2012 Shackelford LL, Stinespring A, Konigsberg L (2012). Estimating the distribution of probable age-at-death from dental remains of immature human fossils. *American Journal of Physical Anthropology* 147(2): 227-253. <https://doi.org/10.1002/ajpa.21639>
- 2011 Bacon A-M, Durringer 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. *Quaternary International* 245: 315-332. <https://doi.org/10.1016/j.quaint.2010.11.024>
- 2007 Shackelford LL. Regional variation in the postcranial robusticity of late upper paleolithic humans. *American Journal of Physical Anthropology* 133(1): 655-668. <https://doi.org/10.1002/ajpa.20567>
- 2004 Churchill SE, Shackelford LL, Georgi JN and Black MT. Morphological variation and airflow dynamics in the human nose. *American Journal of Human Biology* 16(6): 625-638. <https://doi.org/10.1002/ajhb.20074>
- 2002 Shackelford LL and Trinkaus E. Late Pleistocene human femoral diaphyseal curvature. *American Journal of Physical Anthropology* 118(4): 359-370. <https://doi.org/10.1002/ajpa.10093>

Selected Abstracts and Reports (mentored or advised students underlined)

- 2020 Galvez R, Wallon RC, Shackelford L, Amos J, Rowen J. Evaluation of a virtual reality task to educate undergraduate medical students on peripheral and collateral circulation in cardiology. Central Group on Educational Affairs.
- 2020 Zachwieja A, Bacon A-M, Nguyen TMH, Nguyen AT, Sichanthongtip P, Sayavongkhamdy T, Demeter F, Shackelford L. Hunting method choice influenced human-carnivore competition in Late Pleistocene Southeast Asia. American Anatomical Association.
- 2020 Shackelford L, Verstraete E, Huang WD, Merrill C, Craig A. Virtual Archaeology: Teaching archaeology using virtual reality and game-based learning. Society for Historical Archaeology.
- 2019 Galvez R, Shackelford L, Amos J, Rowen J. The use of virtual reality with clinical case studies to facilitate learning of 3-dimensional anatomical concepts in cardiology. Poster Presentations Abstracts, 23rd Annual Meeting of the International Association of Medical Science Educators, Roanoke, VA, June 8-11, 2019. *Medical Science Educator* 29: 19-68. <https://doi.org/10.1007/s40670-019-00869-0>

- 2019 Shackelford L, Huang WD, Merrill C, Craig A. Virtual Archaeology: the efficacy of virtual reality for social science education. The Campus Alliance for Advanced Visualization, Indiana University.
- 2019 Shackelford L, Athreya S. Neanderthal-Upper Paleolithic human population dynamics. *American Journal of Physical Anthropology* 168(S68):225.
- 2019 Zachwieja A, Shackelford L. Sampling bias in the trend of post-Pleistocene gracilization: how terrain affects lower limb robusticity. *FASEB Journal* 33 (S1):612.19.
- 2019 Zachwieja A, Demeter F, Bacon A-M, Nguyen TMH, Nguyen AT, Westaway K, Durringer P, Ponche J-L, Sichanthongtip P, Sayavongkhamdy T, Dunn, T, Shackelford L. Ecological niche models of human land use in Late Pleistocene Southeast Asia suggest both abiotic and biotic variables influenced human dispersal. *American Journal of Physical Anthropology* 168(S68):278.
- 2019 Zachwieja A, Shackelford L. Sampling bias in the trend of post-Pleistocene gracilization: how terrain affects lower limb robusticity. *FASEB Journal* 33 (S1): 612.19.
- 2019 Shackelford L, Huang W, Craig A, Merrill C, Chen D, & Arjona J. Motivational processing in a game-based virtual reality learning system for teaching introductory archaeology. 2019 Association for Educational Communications and Technology International Convention.
- 2018 Shackelford L, Huang W-H, Craig A, LaValle S, Merrill C, Zeng Y. Digitally-empowered learning: Teaching archaeology through virtual reality and game-based learning. *Paleoanthropology* 2018:A1-A41.
- 2018 Willman JC, Schmidt CW, Remy A, Shackelford L, Demeter F. Dental microwear texture analysis of the Late Upper Paleolithic/Neolithic humans at Tam Hang (Northern Laos). *American Journal of Physical Anthropology* 165(S66): 302.
- 2018 Milano S, Demeter F, Hublin J-J, Durringer P, Patole-Edoumba E, Ponche J-L, Shackelford L, et al. Environmental reconstruction in the context of the first *Homo sapiens* in Indochina. *Proceedings of the European Society for the Study of Human Evolution* 7:128.
- 2018 Bourgon N, Jaouen K, Bacon A-M, Dufour E, Demeter F, Antoine P-O, Boesch Q, Durringer P, Patole-Edoumba E, Ponche J-L, Shackelford L, et al. Zinc isotopes as a dietary indicator for archaeology and paleontology: insights from a Southeast Asia Late Pleistocene food web. *Proceedings of the European Society for the Study of Human Evolution* 7:25.
- 2018 Bourgon N, Jaouen K, Bacon A-M, Dufour E, Demeter F, Antoine P-O, Boesch Q, Durringer P, Patole-Edoumba E, Ponche J-L, Shackelford L, et al. Zinc isotopes in fossil teeth and their use as dietary tracer: evidence from a multi-isotopes study. 2nd annual Frontiers in Archaeological Sciences meeting, Simon Fraser University, BC, Canada.

- 2018 Zachwieja AJ, Shackelford LL. Ecological niche models of human land use in Pleistocene Southeast Asia must account for both overall climate and environmentally specific variables. *American Journal of Physical Anthropology* 165(S66):309.
- 2018 Zachwieja AJ, Shackelford LL. Ecological niche models of human land use at the Last Glacial Maximum in Southeast Asia: A comparison of GARP and MaxEnt. Abstracts of the PaleoAnthropology Society 2018 Meeting. *Paleoanthropology* 2018:A1-A41.
- 2017 Zachwieja A, Shackelford L. Paleobiology, competition and migration in Late Pleistocene Southeast Asia. *American Journal of Physical Anthropology* S64:355.
- 2015 Demeter F, Shackelford LL, Braga J, Westaway K, Durringer P, et al. Early modern humans and morphological variation in Southeast Asia: fossil evidence from Tam Pa Ling, Laos. *American Journal of Physical Anthropology* S60:119.
- 2015 Fox M, Shackelford L. Morphology and locomotor function of the hominin pubis. *American Journal of Physical Anthropology* S60:136.
- 2014 Bacon A-M, Shackelford LL, Demeter F. 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.
- 2014 Zachwieja AJ, Shackelford LL. Post-Pleistocene gracilization and the effects of terrain on the lower limbs of modern humans. *American Journal of Physical Anthropology* 153(S58):280.
- 2014 Demeter F, Shackelford L, Braga J, Westaway K, Durringer P, et al. The Tam Pa Ling case: where archaic and modern humans met. 20th Indo-Pacific Prehistory Association Congress.
- 2013 Shackelford LL, Demeter F, Bacon A-M, Durringer P, Westaway K, et al. Mosaic traits of the human mandible from Tam Pa Ling, Laos at 46 ka. *Paleoanthropology* 2013:A34.
- 2012 Shackelford LL, Demeter F, Bacon A-M, Durringer P, Westaway K, et al. Modern human fossils from Tam Pa Ling, Laos. *American Journal of Physical Anthropology* 147 (S54):266-267.
- 2011 Shackelford LL. 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
- 2011 Shackelford LL. What does mobility look like in the Late Pleistocene? *American Journal of Physical Anthropology* 144(S52):271.
- 2011 Stinespring A, Shackelford LL, Konigsberg L. Estimating the distribution of probable age-at-death from the dental remains of immature human fossils. *American Journal of Physical Anthropology* 144(S52):156.

- 2010 Jungers W, Farke A, Sutikna, T, Ruff C, Shackelford L, Stock J, et al. Long-bone geometry and skeletal biomechanics in *Homo floresiensis*. *American Journal of Physical Anthropology* 141(S50).
- 2008 Shackelford LL, Demeter F, Bacon A-M, Durringer P, Edoumba E, Sayavaongkhamdy T, et al. Results from early excavation at Tam Hang, Laos. *American Journal of Physical Anthropology* 138(S48):235.
- 2006 Shackelford LL. Long bone robusticity and behavioral variability in the Inuit sample from Point Hope, Alaska. *American Journal of Physical Anthropology* 129(S42):163.
- 2006 Shackelford LL. Postcranial anatomy and robusticity in Tam Hang, Laos. 18th Indo-Pacific Prehistory Association Congress.
- 2005 Shackelford LL. Regional variation in Late Pleistocene human postcranial robusticity. *Paleoanthropology* A31.
- 2004 Shackelford LL. Behavioral adaptations in a Late Upper Paleolithic Southeast Asian population (Tam Hang, Laos). *American Journal of Physical Anthropology* 123(S38):179.
- 2003 Shackelford LL. Late Pleistocene Postcranial Skeletal Remains from Tam Hang (Laos). *American Journal of Physical Anthropology* 120(S36):189.
- 2001 Shackelford LL, Trinkaus E. Late Pleistocene human anterior femoral curvature. *American Journal of Physical Anthropology* 114(S32):135.

SELECTED PRESENTATIONS AND INVITED LECTURES

- 2022 Shackelford L, Huang W, Sung J, Carducci P. Impacting student learning: Motivational needs of wheelchair users in a VR Game-based learning (VRGBL) environment for archaeology. 2022 Association for Educational Communications and Technology International Convention, Las Vegas, NV + Virtual.
- 2022 Coursera Conference: The Future of Learning and Work. Panel session: *Web3: The Internet multiverse is near, but is our tech stack ready?*
- 2022 UIUC Center for Instructional Teaching and Learning, Art of Teaching Seminar Series, *Gameful Pedagogy in Practice*, Urbana IL
- 2021 Shackelford L, Huang D, Merrill C, Chen D, Craig A. Blurring design boundaries between methods and media in a game-based VR learning environment. 2021 AECT International Convention. Chicago, IL + virtual.
<https://convention2.allacademic.com/one/aect/aect21>
- 2021 Playful by Design Symposium, *Serious games and simulations* Roundtable session, Urbana IL.
- 2020 UIUC College of Liberal Arts & Sciences Technology Presentation Series, *Creating and using immersive technology in the classroom*, Urbana IL.

- 2019 Pontifical Academy of Sciences, Vatican, *Premiers humains: Qui était qui, qui faisait quoi, où et quand? (The earliest humans: who was who, who did what, where and when?)*, Rome (with Fabrice Demeter).
- 2019 Big Ten Academic Association, *Virtual reality in the classroom: teaching with immersive technology*, Urbana IL.
- 2019 Campus Alliance for Advanced Visualization, *Virtual Archaeology: The efficacy of virtual reality of social science education*, Bloomington IN.
- 2019 NSF Cyberlearning Conference, *Teaching with Immersive Technology: Virtual Archaeology*, Alexandria VA.
- 2019 Playful by Design, *VR in the Classroom*, Urbana IL.
- 2019 American Association of Physical Anthropology, Symposium: “From pedestrian to cerebral in the Pleistocene: a symposium in honor of Erik Trinkaus,” *Neanderthal-Upper Paleolithic human population dynamics*, Cleveland OH.
- 2019 UIUC Technology Innovation in Educational Research & Design (TIER-ED), *Lightning Talk: Digitally empowered learning: Virtual reality and social science education*, Urbana IL.
- 2018 UIUC Human Subjects Research Conference, *Digitally empowered learning: Virtual reality and social science education*, Urbana IL.
- 2018 UIUC College of Liberal Arts and Sciences Teaching Academy, *Digitally empowered learning: Teaching archaeology through virtual reality and game-based learning*.
- 2018 UIUC Dept. of Educational Psychology, Division of Cognitive Science, *Virtual Archaeology*.
- 2017 American Association of Physical Anthropology, Symposium: “The paleobiology of Upper Paleolithic/Later Stone Age humans,” *Paleobiology, competition and migration in Late Pleistocene Southeast Asia*, New Orleans LA.
- 2017 IEEE Aerospace Conference Keynote, *Human Evolution: A view from the East*, Big Sky, MT.
- 2016 Lao National Museum, *Presentation of fossils from Tam Pa Ling, Laos*, Vientiane, Laos.
- 2015 American Association of Physical Anthropology, *Early modern humans and morphological variation in Southeast Asia: Fossil evidence from Tam Pa Ling, Laos*, St. Louis MO.
- 2015 Roland Park Country School, *Being a scientist and a girl*, Baltimore MD.
- 2012 Illinois State Geological Survey Seminar Series, *Southeast Asian Paleoanthropology*, Urbana IL.
- 2012 UT Knoxville Anatomy Lecture Series, *Biobehavior of Late Pleistocene Humans from Southeast Asia*, Knoxville TN.
- 2011 French Embassy, *Updates on excavations from Tam Pa Ling, Laos*, Vientiane, Laos.
- 2011 UIUC Program in Ecology & Evolutionary Biology, *Late Pleistocene human biology*.

- 2011 American Association of Physical Anthropology, Symposium: “Mobility: Towards a definition for application in human evolution,” *What does mobility look like in the Late Pleistocene?*, Minneapolis MN.
- 2010 French Embassy, *Updates on excavations from Hua Pan Province, Laos*, Vientiane, Laos.
- 2006 Indo-Pacific Prehistory Association, *The Tam Pa Ling case: Where archaic and modern human biology met*, Manila, Philippines.
- 2006 American Association of Physical Anthropology, Symposium: “Pre-contact forager adaptations to NW Coastal Alaska: the bioarchaeology of Point Hope,” *The biology and biomechanics of foragers from Point Hope*, Anchorage AK.

TEACHING EXPERIENCE

University of Illinois Urbana-Champaign, Urbana, IL

Anthropology Department

ANTH 102	Human Origins and Culture
ANTH 399, 499	Biology of the Neandertals
ANTH 399VR	Virtual Archaeology
ANTH 435	The Neandertal Debate
ANTH 440	Human Paleontology
ANTH 456	Human Osteology
ANTH 499	Anthropology and Ethics

Animal Sciences Department

ANSC 298	Africa Wildlife Discovery in South Africa (Study abroad)
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UIUC College of Medicine

BMS 622 & 623	Human Anatomy I and II
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Carle Illinois College of Medicine (systems-based curriculum)

Anatomy for cardiovascular, respiratory, renal, musculoskeletal, digestion, genitourinary, and Women’s health courses

Advanced Anatomy elective

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| 2022 | Dylan Mann, musculoskeletal anatomy with a focus on orthopedics |
| 2022 | Zachary Meade, head and neck anatomy for general surgery |
| 2021 | Ethan Chen, <i>Neck dissection – from radical to elective and sentinel lymph node biopsy</i> |
| 2021 | Phani Gaddipati, <i>Immediately sequential and delayed sequential cataract surgery: influencing factors in adoption</i> |
| 2021 | Matthew Lee, genitourinary anatomy with a focus on kidney & ureter transplantation |
| 2021 | Jan Lee, insulin secretion post Roux-en-Y gastric bypass |
| 2021 | Ashkhan Hojati, GI anatomy and gastrointestinal perforation |
| 2021 | Kanasha Overton, urology and male reproductive anatomy |
| | • <i>We are the blessing, not dressed in disguise, Op-Med Medical Humanities series, Doximity, June 2021</i> |
| 2021 | Samantha Houser, brachial plexus and circulation of the spinal cord and |

- vertebral canal
- 2020 Valerie Chen, post-hysterectomy pelvic floor dysfunction
- Chen V, Shackelford L, Spain M. Pelvic floor dysfunction after hysterectomy: Moving the investigation forward. *Cureus* 2021 Jun 15;13(6):e15661. doi: 10.7759/cureus.15661
 - Pelvic floor dysfunction after hysterectomy: Moving the investigation forward, 19th annual research day, CICOM, April 2021 (conference abstract and podium presentation)

Doctoral Students Advised

- Scott Williams, *Evolution of the hominoid vertebral column*, 2011
- Krista Milich, *The impact of habitat quality on female red colobus (*Procolobus rufomitratus*) reproduction in Kibale National Park, Uganda*, 2012
- Natalie Uhl, *Using multivariate calibration to evaluate hominin brain/body relationships*, 2014
- John Lindo, *Paleogenomics in the Americas: Demography, adaptations and resilience*, 2015
- Benjamin Osipov, *The ontogeny of postcranial robusticity and shape in Middle Holocene Cis-Baikal hunter-gatherer populations*, 2018 (University of Alberta)
- Amanda Lee, *Multivariate asymmetry and allometry in human limb bones as a basis for osteometric sorting*, March 2019
- Alexandra Zachwieja, *Climate, environment and competition influenced human land use in Late Pleistocene Australasia*, November 2019 (primary adviser)
- Matthew Go, *Sex and ancestry estimation in modern Filipino crania*, March 2020
- Maria Fox, *The biomechanical consequences of body size differences in humans*, March 2020
- Katie Lee, *Estrogen, energy and bone: A life history approach to understanding skeletal phenotypes*, June 2020
- An-di Yim, Ph.D., *A quantitative genetic approach to study the ontogeny and evolution of ecogeographic patterns in the human limb skeleton*, April 2021
- Tyler Dunn, Ph.D., *The effects of climate and subsistence on postcranial variation in modern humans through the lens of population history – a mixed model approach*, December 2021(primary adviser)
- Aimee Carbaugh (entered program Fall 2014; ABD Spring 2019) (primary adviser)
- Michelle Farley (entered program Fall 2017; ABD Spring 2021) (primary adviser)
- Colleen Heinemann (Informatics, entered program Fall 2016)
- Natasha Mazumdar (entered program Fall 2014; ABD May 2018) (primary adviser)
- James Planey (College of Education, DELTA program, entered program Fall 2018; ABD Spring 2022)
- Valerie Sgheiza (entered program Fall 2018; ABD Fall 2020)
- Ashley Stinespring (entered program Fall 2009; ABD 2012)
- Brittany Staff Moody (Texas A&M University; ABD Fall 2020)

SELECTED AWARDS AND HONORS

- 4/2022 Phase 1 Golden Apple Award, Carle Illinois College of Medicine (selected by the Inaugural Class of 2022 for excellence in teaching and service)
- 2018-present National Geographic explorer, National Geographic Foundation
- AY 2019-20 Distinguished Service Award, Anthropology Dept.
- Fall 2020 Nominated for UIUC Campus Award for Excellent in Graduate and Professional Teaching by Anthropology Dept.
- Spring 2020 Nominated for UIUC Campus Award for Excellence in Graduate and Professional Teaching by Carle Illinois College of Medicine
- Fall 2019 List of Teachers Ranked as Excellent, Anth 399 (Virtual Archaeology)
- Spring 2019 List of Teachers Ranked as Excellent, Anth 499 (NAGPRA and Ethics)
- Spring 2019 List of Teachers Ranked as Excellent, Anth 399 (Virtual Archaeology)
- AY 2017-18 Raymond B. Allen Instructorship Award (“Golden Apple Award”), College of Medicine, UIUC (chosen by first-year class for excellence in teaching)
- Spring 2017 List of Teachers Ranked as Excellent, BMS 622/23, College of Medicine
- Fall 2016 List of Teachers Ranked as Excellent, BMS 622/23, College of Medicine
- Spring 2015 List of Teachers Ranked as Excellent, Anth 456 (Human Osteology)
- Spring 2013 List of Teachers Ranked as Excellent, Anth 456 (Human Osteology)
- October 2012 Arnold O. Beckman Research Award, UIUC Campus Research Board
- Spring 2012 List of Teachers Ranked as Excellent, Anth 456 (Human Osteology)

SELECTED PUBLIC ENGAGEMENT

- 2021 UIUC Office of the Provost, Thriving as an Associate Professor seminar series: *Congrats, You’ve been promoted, Now what?*
- 2021 Contributor to *Windows into Human Diversity*, ep. 6, aired 6/2021, [https://urldefense.com/v3/https://www.youtube.com/playlist?list=PLu2nD5Nr8-4gWioPiGZTM70Cwdlh6WULo_!!DZ3fjg!rgdCdUN8EMpdIYnMWYHt2UUzBRSexBbdc-yp0lJCnRqTRcybKoRLvN4uQZVc8759Mbs\\$](https://urldefense.com/v3/https://www.youtube.com/playlist?list=PLu2nD5Nr8-4gWioPiGZTM70Cwdlh6WULo_!!DZ3fjg!rgdCdUN8EMpdIYnMWYHt2UUzBRSexBbdc-yp0lJCnRqTRcybKoRLvN4uQZVc8759Mbs$)
- 2021 Dear Alma Podcast, Office of the Provost, UIUC, <https://provost.illinois.edu/faculty-affairs/faculty-development-mentoring/dear-alma-podcast-series/>
- 2020 NSF Update, 2/27/2020 <https://www.youtube.com/watch?v=HxVFMQC9b0g&feature=youtu.be>
- 2020 UIUC News Bureau: Team creates game-based virtual archaeology field school, 1/29/2020 <https://news.illinois.edu/view/6367/805645>
- 2018-present Technology Innovation in Educational Research & Design Program (TIER-ED), UIUC: Research group dedicated to research and design of educational technologies
- 2018 News Gazette: Dig this: VR lab lets UI archaeology students explore mammoth cave on campus, 11/25/2018 <http://www.news-gazette.com/living/2018-11-25/dig-vr-lab-lets-ui-archaeology-students-explore-mammoth-cave-campus.html>

- 2018 NSF Science360 Newsletter, 11/16/2018
<https://news.science360.gov/archives/20181116>
- 2018 UIUC News Bureau: Excavating a cave without leaving campus, 11/14/2018
<https://emails.illinois.edu/newsletter/193435.html>
- 2017 Story Collider, hosted by Liz Neeley and Ari Daniel. Scientists tell personal stories about the human side of science. <https://www.storycollider.org>
- 2017-present
 Playful by Design Research group: IPRH Research cluster dedicated to interdisciplinary game studies throughout the CU community
- 2015 Contributor to *First Peoples: Asia*, PBS documentary, aired Summer 2015
- 2013 Contributor to the Academic Minute, WAMC Northeast Public Radio
- 2012 BBC World Service Newshour radio interview, 8/21/2012 on Tam Pa Ling skull from Laos
- 2007 Carle Hospital Community Medical School, *Joints*, Urbana IL.

UNIVERSITY SERVICE

University & College of LAS Service

- 4/2022 Chair, Executive Officer Evaluation Committee,
 Communication Dept., UIUC
- 8/2021-present Educational Policy Committee
- 8/2021-present Teaching Advancement Board
- 2/2021-6/2021 Task Force on Post-Pandemic Innovation in Teaching and
 Learning
- 2017-2020 IT Faculty Advisory Committee
- 2018-2020 Faculty Women in the Classroom
- 2011-2016 College Committee on Student Promotions, UI College of
 Medicine (overseeing 4 regional campuses)
- 2011-2013 LAS Faculty Senator for Anthropology

Departmental Service: Anthropology

- 2021-2022 Hiring Committees
- 2017-2020 Director of Graduate Studies
- 2014-15, 2017-20 Anthropology Advisory Committee
- 2017-present NAGPRA & Ethics Committee
- 2011-12, 2017-20 Admissions Committee
- 2010-11, 2012-13, 2021-22 Awards Committee
- 2021-22 *Chair*
- 2007-10, 2013-14 Courses & Curriculum Committee
- 2007-11, 2013,
 2016-present Osteology Committee
- 2010-11, 2014-15 Financial Aid Committee
- 2008-13, 2019-present Diversity Committee
- 2020-present Departmental Green Team

Departmental Service: UIUC College of Medicine (2007-2017)

2007-2017	Basic Sciences Subcommittee
2011-2017	Educational Policy Committee
2008-2011	Student Progress & Promotions Committee

Departmental Service: Carle Illinois College of Medicine (2017-present)

2020-present	Biomedical & Translational Sciences Appointment, Promotions & Tenure Committee
2019-present	Electives Review Committee
2017-2019	Basic Science Curriculum Subcommittee
2017-2018	Committee on IT for Simulation Education

PROFESSIONAL SERVICE

Review Panels: Journals & Publishers

- American Journal of Physical Anthropology
- Cambridge University Press
- Current Anthropology
- Journal of Human Biology
- Journal of Human Evolution
- Midcontinental Journal of Archaeology
- Routledge, Taylor & Francis Group

Review Panels: Granting Agencies

- Hewlett Foundation Review Committee for International Research Travel Grants
- Leakey Foundation Scientific Executive Committee for grant review
- National Geographic Society
- National Science Foundation
 - SBIR/STTR Program
 - Methodology, Measurement, and Statistics Program
- Swiss National Science Foundation

Review Panels: UIUC

- Center for Social and Behavioral Sciences
- Research Board grant review committee
- Technology Innovation in Educational Research & Design Program (TIER-ED)