

4. CV of the experienced researcher.

WILLIAM TIMOTHY TREAL TAYLOR

717 Hiberna St, Missoula MT 59804
taylor@shh.mpg.de *406.273.1484 (mobile)
shh-mpg.academia.edu/WilliamTaylor

PROFESSIONAL PREPARATION

University of New Mexico, Ph.D. Anthropology with Distinction, May 2017

- "The Origins of Horse Herding and Riding in the Eastern Steppe"

University of New Mexico, M.S. Anthropology, May 2013

- "High Latitudes, High Stakes: Arctic Conservatism, Biogeography, and the 'Collapse' of Norse Settlement in Greenland During the Little Ice Age"

Carleton College, B.A. International Relations *Magna cum Laude*, 2011

PROFESSIONAL EXPERIENCE

2017-present	Postdoctoral Research Fellow, Max Planck Institute for the Science of Human History
2016-2017	Fulbright Researcher, National Museum of Mongolia
2015-2016	Curatorial Assistant, National Park Service Chaco Collections
2013-2014	Teaching Assistant, Department of Anthropology, University of New Mexico
2011-2014	Graduate Research Assistant, Maxwell Museum of Anthropology
2010	Intern, Smithsonian Arctic Studies Center, Washington, D.C.

SELECTED PUBLICATIONS

- Taylor, William** and Jamsranjav Bayarsaikhan, Dimitri Stazewski, Scott Bender, Jocelyn Whitworth, Tumurbaatar Tuvshinjargal, Monica Tromp, K. Bryce Lowry, William Fitzhugh, Nicole Boivin.
2018. Origins of Equine Dentistry. *Proceedings of the National Academy of Sciences*, published ahead of print 2 July 2018.
- Fedorchenko A.Yu., Shnaider S.V., Krajcarz M.T., Romanenko M.E., Abdykanova A., Kolobova K.A., Alisherkyzy S., **Taylor W.**, Krivoshapkin A.I.
2018. Production technology of personal ornaments in western Central Asia in early Holocene complexes. *Archaeology, Ethnography and Anthropology of Eurasia*.
- Shnaider S.V., Abdykanova A., **Taylor W.**, Kolobova K.A., Krivoshapkin A.I.
2018. Early human occupation of high altitude in western Central Asia: new evidence from the Alay valley, Kyrgyzstan. *Antiquity* Vol 92 (June 2018).
- Taylor, William**, Jargalan Burentogtokh, K. Bryce Lowry, Julia Clark, Tumurbaatar Tuvshinjargal, and Jamsranjav Bayarsaikhan.
2017. A Bayesian Chronology for Early Domestic Horse Use in the Eastern Steppe. *Journal of Archaeological Science* 81:49-58
- Taylor, William**.
2017. Horse demography and use in Bronze Age Mongolia, *Quaternary International* 436:270-282.
<http://dx.doi.org/10.1016/j.quaint.2015.09.085>
- Taylor, William**, Tuvshinjargal Tumurbaatar, and Bayarsaikhan Jamsranjav.
2016. Reconstructing Equine Bridles in the Mongolian Bronze Age. *Journal of Ethnobiology* 36(3):554-570

Taylor, William, Bayarsaikhan Jamsranjav, and Tuvshinjargal Tumuurbaatar.
2015. Equine Cranial Morphology and the Archaeological Identification of Riding and Chariotry: Applications to Mongolia's late Bronze Age. *Antiquity* 89(346): 854-871.

Manuscripts in Review

Taylor, William, Svetlana Shnaider, Aida Abdykanova, Franziska Irmer, Frido Welker, Andrei Krivoschapkin, and Nicole Boivin.

In review. Zooarchaeology by Mass Spectrometry (ZooMS) and Early Pastoral Economies along the Ancient Silk Road: New evidence from the Alay Valley, Kyrgyzstan. Manuscript submitted to *PLoS One*, June 2018

Non-refereed

Taylor, William.

2018. How Ancient Exchanges in Central Asia Shaped the Modern World. *The Diplomat*. 11 Apr 2018. <https://thediplomat.com/2018/04/how-ancient-exchanges-in-central-asia-shaped-the-modern-world/>

Taylor, William.

2017. Beyond Genghis Khan: how looting threatens to erase Mongolia's history. *The Guardian*, Science Notes & Theories. 26 October 2017. <https://www.theguardian.com/science/blog/2017/oct/26/beyond-ghengis-khan-how-looting-threatens-to-erase-mongolias-history>

Taylor, William.

2016. Archaeology sheds light on Mongolia's uncertain nomadic future. *The Guardian*, Science Notes & Theories. 7 December 2016. <https://www.theguardian.com/science/blog/2016/dec/07/archaeology-sheds-light-on-mongolias-uncertain-nomadic-future>

MONOGRAPH CHAPTERS

Taylor, William and Tumurbaatar Tuvshinjargal.

2018. Horseback riding, asymmetry, and anthropogenic changes to the equine skull: evidence for mounted riding in Mongolia's late Bronze Age. In Bartosiewicz and Gal (eds.), *Care or Neglect? Evidence of Animal Disease in Archaeology*. Oxford, Oxbow Books.

INVITED PRESENTATIONS

Recovering Mongolia's frozen past: understanding taiga and alpine prehistory through ice patch archaeology. American Center for Mongolian Studies Summer 2018 Lecture Series, Natsagdorj Library, Ulaanbaatar, Mongolia.

Zooarchaeology by Mass Spectrometry (ZooMS) & archaeological research in Central Asia. Institute for Archaeology and Ethnography, Russian Academy of Sciences (Siberian Branch), Novosibirsk, Russia, March 2018.

3D Geometric Morphometrics in Archaeology. Henan Provincial Museum, Zhengzhou, China, January 2018.

Horses and Human Societies. February 2nd, 2018, Arizona State Museum, Tucson, AZ, USA.

Animal Domesticates, the Silk Road, and Early Nomadic Occupation of Alay Valley, Kyrgyzstan. Paper presented at *Telescopic and Microscopic Visions of Central Asian Prehistory*, Max Planck Institute for the Science of Human History, Jena, Germany.

Equine Dentistry and Bit Technology in Ancient Eastern Eurasia. Paper presented at Human Development in Landscapes International Open Workshop 2017: Socio-Environmental dynamics over the last 12,000 Years, Kiel University, Germany.

3D Scanning for Archaeological Research and Cultural Heritage Preservation in Mongolia. Paper presented at Mongolian Archaeology: New Discoveries, New Concerns. University of California, Berkeley.

Early Nomadic Origins and Igniting Passion in a Scientific Career. TEDx Baga Toiruu 2016: IGNITE LOVE, Tanan Center, Ulaanbaatar, Mongolia. Mongolian Language, June 2016.

Understanding Ancient Horse Use in the Mongolian Steppe. American Center for Mongolian Studies Fall 2015 Lecture Series, Natsagdorj Library, Ulaanbaatar, Mongolia.

RESEARCH EXPEDITIONS

Projects managed as principal investigator:

2015 National Geographic/Bronze Age Riders? Northern Darkhad Basin, Mongolia

2016-present: Co-director, Northern Mongolia Archaeology Project (w/ Dr. Julia Clark)

- 2016, Khangai Nomadic Heritage Project, Bayankhongor, Mongolia
- 2017 MPI-SHH: Bagsagiin Bulan, Darkhad Basin, Mongolia
- 2017 MPI-SHH: Tsagaan Asga, Bayan Ulgii, Mongolia

2017-present: Co-director, Alay Valley Archaeology Project (with Russian Academy of Sciences, Novosibirsk), Alay Valley, Kyrgyzstan

Projects joined as graduate assistant:

2015 Hartley Mammoth Excavation (NSF Award #1541294)

2011-14 Lake Clark/Katmai National Parks, Alaska (NSF Award # 0837844, "Ice Patch Archaeology", Principal Investigator E. James Dixon)

2012 Prince of Wales Island, Alaska (NSF Award #1108367, "Gateway to the Americas II", Principal Investigator E. James Dixon)

2011 Altai Tavan Bogd National Park, Mongolia (NEH, "Art and Archaeology of the Biluut Petroglyph Complex, Mongolia", Principal Investigators William Fitzhugh and Richard Kortum)

ORGANIZATION OF INTERNATIONAL CONFERENCES

2018 (upcoming). Animal Domestication and Biotic Exchange in East and Central Asia. 13th International Council for Archaeozoology Meeting, Ankara, Turkey.

2018 (upcoming). Domestication. International Symposium on Biomolecular Anthropology (ISBA), 2018 Annual Meeting.

2017. *Telescopic and Microscopic Visions of Central Asian Prehistory*, Max Planck Institute for the Science of Human History, Jena, Germany.

2017. Human, Animal, and Environmental Interactions in Northeast Asia. 2017 Society for American Archaeology Annual Meeting, Vancouver, B.C.

PRIZES AND AWARDS

2016-2017 Ruth Kennedy Dissertation Prize, University of New Mexico

2014 International Council for Archaeozoology Open Zooarchaeology Prize

2014 International Council for Archaeozoology Stine Rossel Dissertation Prize

2014 Society for Archaeological Sciences R.E. Taylor Student Poster Award

2011 Phi Beta Kappa, Minnesota Beta Chapter, Carleton College

2011 National Football Foundation Hampshire Honor Society

2010 ESPN/CoSida Academic All-America Award, 2nd Team

2010, 2009, 2008 ESPN/CoSida Academic All-District Award

2010 Minnesota Intercollegiate Athletic Conference Academic All-Conference Selection

2007 United States National Merit Scholar

2007 United States Presidential Scholar

FUNDING

2016 Ambassador's Grant, U.S. Embassy in Mongolia – “Tracing the Origins of Mongolia's Early Horse Culture”
2015-16 Fulbright U.S. Student Research Award (#34154234), Mongolia, “Exploring Ancient Horse Use in the Mongolian Steppe”
2015 National Geographic Young Explorer's Grant (#9713-15), “Bronze Age Riders? Evaluating Evidence for Horse Herding and Transport in Ancient Mongolia”
2015 National Science Foundation Doctoral Dissertation Improvement Grant (#1522024), “Domestic Horse Use in Ecological and Historical Context”
2014 American Center for Mongolian Studies Library Fellow
2013 Patrick Orion Mullen Award in Archaeological Science, University of Wyoming Frison Institute
2013 American Center for Mongolian Studies Summer Research Fellow
2011 NCAA Postgraduate Research Fellowship
2011 American Center for Mongolian Studies Summer Research Fellow

SUPERVISING AND MENTORING

2017-present: supervision of two Ph.D. candidates at MPI-SHH
2017-present: graduate instruction of Ph.D. candidates in Archaeozoology, MPI-SHH
Student presentations
2017. N. Case and W. Taylor. Photogrammetry and documentation of tangible heritage in the Khangai Mountains, Mongolia. Poster presented at the 2017 Society for American Archaeology Annual Meeting, Vancouver, B.C.
2018: N. Case, J. Clark, and **W. Taylor**. Digital Archaeology in Mongolia: Visualizing the Data. Paper presented at 2018 Society for American Archaeology Annual Meeting, Washington, DC
2018 (upcoming): Yue Li, Jian Ma, Yue You, Chengrui Zhang, Liang Chen, **William Taylor**. Paleopathology and Early Horseback Riding along the Proto-Silk Road: Evidence from the Early Iron Age Sites of Shirenzigou and Xigou, Xinjiang, China. Paper to be presented at 13th International Council for Archaeozoology Meeting, Ankara, Turkey.

CERTIFICATIONS

2017. ArcGIS: Introduction to GIS 10.4, ESRI Deutschland
2015. A Comprehensive Guide to Bayesian Analysis of Radiocarbon Dates Using OxCal, University of Arizona Accelerator Mass Spectrometry Lab, Time Series: Seminars on Dating and Chronology, Tucson, Arizona.
2014. 4th Transmitting Science Workshop in 3D Geometric Morphometrics, Barcelona, Spain.

LANGUAGES

Advanced proficiency, Mongolian
Intermediate proficiency, Mandarin Chinese

SERVICE

Professional memberships

International Council for Archaeozoology
ICAZ Animal Paleopathology Working Group
Society for American Archaeology

Professional Service

Mongolian Translator, *Adventures in Archaeological Science* Coloring Book (2018)
Institute Organizer, MPI-SHH March for Science, Jena, Germany (2017)

Chair, Excavation Protocols Committee (MPI-SHH, Jena)
Contributor, National Geographic Voices
Contributing author, *The Guardian* Science Network
Reviewer, *Science*, *Proceedings of the National Academy of Sciences (PNAS)*, *PLoSOne*, *Journal of Archaeological Science*,
Anthropozoologica, *Journal of Anthropological Archaeology*, *Journal of Archaeology for Asia and the Pacific* and *Journal of
Ethnobiology*
Reviewer, Mongolia Fulbright Foreign Student Program
Web Editor, ICAZ Animal Paleopathology Working Group

SELECTED MUSEUM EXHIBITS

2016. English Editor and Exhibit Designer, Mongolia's Horse Culture Heritage. Exhibit hosted at the National Museum of Mongolia. July-August 2016.

2015. English Editor, "Nomads of the Great Steppes and Silk Roads." Exhibit hosted at the National Museum of Mongolia, August-September 2015.

2015. Curatorial Assistant, "Archaeology on Ice." Exhibit hosted at the Maxwell Museum of Anthropology, Albuquerque, NM. October 2015.

2013. Producer/Videographer/Editor: 2013 NPS Ice Patch Archaeology Video Series. Available at (<https://youtu.be/0Efr2eEcuP0>)