

A. R. VENTRESCA-MILLER
Director of the Ancient Protein and Isotope Laboratory
Associate Professor / Department of Anthropology
Associate Curator of Archaeological Sciences / Museum of Anthropological Archaeology
University of Michigan
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EDUCATION

2013	Ph.D. in Anthropology , University of Pittsburgh <i>Dissertation Title: Social Organization and Interaction in Bronze Age Eurasia (2100 to 1400 BC): A Bioarchaeological and Statistical Approach to the Study of Communities</i>
1999	Master of Arts in Anthropology , New Mexico State University
1997	Bachelor of Arts in Anthropology , State University of New York at Buffalo

PROFESSIONAL POSITIONS

ACADEMIC	
2025 to present	Associate Professor , Department of Anthropology, University of Michigan Associate Curator of Archaeological Sciences , Museum of Anthropological Archaeology, University of Michigan Director , Ancient Protein and Isotope Laboratory, University of Michigan
2019 to 2025	Assistant Professor , Department of Anthropology, University of Michigan Assistant Curator of Asian Archaeology , Museum of Anthropological Archaeology, University of Michigan Director , Ancient Protein and Isotope Laboratory, University of Michigan
2019 to 2024	Research Affiliate , Max Planck Institute for the Geoanthropology, Department of Archaeology, Stable Isotope Research Group, Proteomics Research Group
2017 – 2019	Postdoctoral Researcher , Max Planck Institute for the Science of Human History, Department of Archaeology, Stable Isotope Research Group, Proteomics Research Group Faculty , International Max Planck Research School for the Science of Human History
2016 – 2017	Research Fellow , Christian-Albrechts-Universität zu Kiel, Graduate School Human Development in Landscapes and the Archaeological Stable Isotope Laboratory
2015 – 2016	Maternity Leave (14 months)
2013 – 2015	Research Fellow , Christian-Albrechts-Universität zu Kiel, Graduate School Human Development in Landscapes and the Archaeological Stable Isotope Laboratory
VOLUNTEER / COMMERCIAL ARCHAEOLOGY	
2004 – 2006	US Peace Corps Volunteer , Non-Governmental Organization, Kazakhstan
2002 – 2003	Project Manager (Archaeology) , R. C. Goodwin & Associates, Louisiana
2000 – 2002	Assistant Project Manager (Archaeology) , R. C. Goodwin & Associates, Louisiana

GRANTS AND AWARDS (PRINCIPAL INVESTIGATOR OR CO-PI)

2025-26	Awarded an LSA LEAD Fellowship; brings together faculty to learn about and develop strategies to increase the impact of their formal and informal leadership. Meet twice a month over the course of the academic year (course release)
2024	Awarded a Klinsky grant for archaeological research on the project “Northern Masters of Eurasia: Nomadic Elites at the Dawn of the Silk Roads” \$204,000
2023	Awarded a TOME publishing grant for open access publication of my book ‘Domesticated’ \$15,000

- 2021-23** Awarded Project Grant to fund ‘Centering the Northern Realms: Integrating Histories and Archaeologies of the Mongol Empire (1200-1500 CE)’ from the Humanities Collaboratory at the University of Michigan **\$571,491**
- 2021** Awarded Proposal Development Grant to fund for our project ‘Centering the Northern Frontier: Integrating Histories and Archaeologies of the Mongol Empire’ from the Humanities Collaboratory at the University of Michigan **\$84,020**
- 2021** Awarded a 5x5 incubator grant for the project ‘Northern Frontiers of the Mongol Empire’ from the Humanities Collaboratory at the University of Michigan **\$3000**
- 2020** Awarded funding for fieldwork in Mongolia on the project ‘Preserved in the Permafrost’ from the American Center for Mongolian Studies **\$4,000**
- 2020** Awarded funding for fieldwork in Mongolia on the project ‘Preserved in the Permafrost’ from the National Geographic Society Grant **\$29,900**
- 2018** Awarded funding for a workshop ‘Mosaic of Millet’ from the Max Planck Institute for the Science of Human History **€ 4,035**
- 2014** Awarded funding for a workshop ‘Coming of Age? Stable isotopes in archaeology’ from the Graduate School Human Development in Landscapes **€ 6,735**
- 2014** Awarded a Gerda Henkel Grant for field research **€ 8,200**
- 2009** Awarded a FLAS (Foreign Language and Area Studies) Fellowship **\$17,000**
- 2008** Awarded a FLAS (Foreign Language and Area Studies) Fellowship **\$17,000**
- 2008** Awarded an Arts and Science Fellowship from the University of Pittsburgh **\$18,000**
- 2008** Awarded a Pre-dissertation Research Grant by the University of Pittsburgh Department of Anthropology **\$1600**
- 2007** Awarded a Pre-dissertation Research Grant by the University of Pittsburgh Department of Anthropology **\$3400**

RESEARCH GRANTS (SENIOR INVESTIGATOR OR COLLABORATOR)

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- 2025-2027** **National Science Foundation Grant. PI:** Dr. E. Arnold. *Assessing animal management within Iron Age cycles of urbanism in the southern Levant: a zooarchaeological and isotopic study of the urban/rural continuum.* **Senior Investigator:** A. Ventresca-Miller (portion of grant **\$10,000**)
- 2021-2024** Alexander von Humboldt Foundation - Alumni Award 2021 for innovative networking initiatives for the project ‘The Steppe Sisters: A Networking Group for Women in the Human Sciences’. **PI:** D. Duturaeva. **Co-PI’s:** A. Ventresca Miller, A. Haruda, A. Childebaeva, U. Brosseder, J. Lhuillier, L. Rouse, K. Hopper, G. Sultonova **€26,660**
- 2021-2022** National Science Foundation Doctoral Dissertation Research: Diet Alteration in a High Altitude Environment (Award Number: 2104477) **PI:** Brian Stewart, **Co-PI:** Yuchao Zhao, **Senior Investigator:** Alicia Ventresca Miller **\$24,903**
- 2020** China Scholarship council funding for Liang Qiyao to undertake research in my laboratory at U of M as a graduate student. **PI:** Alicia R. Ventresca Miller ***Graduate student tuition and housing covered*** *Canceled due to visa restrictions – COVID19*
- 2020** U-M Lieberthal-Rogel Center for Chinese Studies Grant to support an exhibit centered on the UMMAA Chinese Government Collection and focused on textiles from the late 19th century. **Co-PI’s:** Par Cassel, Debing Su, Alicia R. Ventresca Miller and Jim Moss **\$13,400**
- 2019** Wenner-Gren Foundation Research Grant: Multi-resource subsistence among ancient Jordanian pastoralists and townsfolk: health, diet and paleoethnobiology. **PI:** Dr. M. Judd.

Senior Investigator: A. R. Ventresca Miller (portion of grant allotted to Proteomics research \$10,000)

- 2017 Awarded funding for a workshop ‘Telescopic and Microscopic Visions of Central Asian Prehistory’ from the Max Planck Institute for the Science of Human History € 8,000
- 2017 DFG Grant: Nomad state formation and urbanization on the northern Silk Road: The early medieval town of Dzhanakent (Aral Sea region, Kazakhstan). **PI’s:** Dr. H. Härke and Dr. A. Tazhekeev. **Senior Investigator:** A. R. Ventresca Miller (Portion of grant for Stable Isotope Research: €17,460)
- 2015 National Geographic: A bioarchaeological study of the Iron Age site of Bel’sk in Ukraine. **PI’s:** Dr. J. Johnson (Univ. of Copenhagen), Prof. Dr. S. Makhortykh (Ukrainian Institute of Archaeology), Prof. Dr. T. Taylor (Univ. of Vienna). **Senior Investigator:** A. R. Ventresca Miller (portion of grant for stable isotope analyses \$5,000)

PENDING GRANT APPLICATIONS / AWARD NOMINATIONS

- 2024 **DFG (Germany). PIs:** Dr. Heinrich Härke, Dr. Irina Arzhantseva. *Dzhety-asary project (Kazakhstan)*. **Senior Investigator:** A. Ventresca-Miller 23,275€)

BOOKS

- 2026 **Ventresca-Miller, A.**, *DOMESTICATED: How the adoption of cultivated species altered early Silk Road societies*. Under contract with Oxford University Press. Available Open Access (January 2026) and in print by April 2026. <https://doi.org/10.1093/9780197785973.001.0001>
- 2018 **Ventresca Miller, A.** and C. Makarewicz (Eds). *Isotopic Investigations of Pastoralism in Prehistory*. Oxford, Routledge.

JOURNAL ARTICLES (PEER REVIEW)

**denotes where I am a corresponding author; ^denotes student-led manuscript; OA (Open Access)*

- 2026 ^Runge, T., J. Johnson, S. Makhortykh, L. Litvinova, and **A. Ventresca-Miller***. Dental attrition and dietary intake of urban Scythian populations. (*International Journal of Osteoarchaeology*)
- 2026 ^Larson, K., A. Haruda, Tomažič, I., A. Tazhekeyev, H. Harke, I. Arzhantseva, **A. R. Ventresca-Miller***. Provisioning a Silk Road City: Herd Management Strategies at the Urban Site of Dzhanakent, Kazakhstan. (*Archaeometry*)
- 2026 Usmanova E. and **A. Ventresca-Miller**. Women’s Status and Craft in the Collective Memory of the Bronze Age (based on the Lisakovsk burial complex, Kostanay region, Kazakhstan). (*Archaeology of Kazakhstan* 2(32)). In Russian. DOI: <https://www.archeokz.com/index.php/archeokz/article/view/648>
- 2026 ^Luurtsema, A., K. Larson, H. Wright, **A. R. Ventresca-Miller***. Diverse Livestock Management Strategies Sustained the Emerging Chalcolithic Town of Tepe Farukhabad, Iran (*Nature: Scientific Reports*)
- 2026 Miller, Bryan K. and **A. R. Ventresca-Miller**. Cultivating a nomad identity: divergence of lifeways and cultural politics in Early Iron Age Eurasia. (*Asian Perspectives*)
- 2026 ^Tomažič, I., Pompeani, K., Larson, K., and **A. Ventresca-Miller***. Dietary variation in Bronze Age Serbia: Comparative isotopic analysis of two cemeteries. (*PLOS One*).
- 2026 ^J. Pecnik, **A. Ventresca-Miller**, J. Johnson, S. Makhortykh, L. Litvinova, and S. Wilkin. Proteomic analysis of Iron Age dental calculus sheds light on the diet and food systems of agro-pastoral Scythians from the northern Black Sea region. (*Nature: Scientific Reports*).
- 2024 Wilkin, Shevan, Jamsranjav Bayarsaikhan, Ankhsanaa Ganbold, Ankhbayar Batsuuri, Ishtseren Lochin, Daisuke Nakamura, Eregzen Gelegdorj, **Alicia Ventresca-Miller**, Bryan K. Miller. Cauldrons of Bronze Age nomads reveals 2,700-year-old yak milk and the deep antiquity of food preparation techniques. *Nature: Scientific Reports*, 14: 11625. <https://doi.org/10.1038/s41598-024-60607-4>

- 2024
OA Lynne M. Rouse, Paula N. Doumani Dupuy, Aida Abdykanova, Elizabeth Baker Brite, Taylor R. Hermes, Fiona Kidd, Elise Luneau, Bryan K. Miller, Miljana Radivojević, Svetlana Shnaider, Kubatbek Tabaldyev, **Alicia Ventresca-Miller**, Joshua Wright. [Re]Integrating a Dispersed Agenda: Advancing Archaeological Research in Central Eurasia. *Antiquity*, Published online 2024:1-9. doi:10.15184/aqy.2024.73
- 2024
OA ^Smithers, R., **Ventresca-Miller, A.** and Fernandes, R. North Central Asia isotopic database for archaeological samples. *Data in Brief*, 53: 110032. <https://doi.org/10.1016/j.dib.2024.110032>
- 2023
Cосорбарамын Хүрэлсүх, Жамсранжавын Баярсайхан, Гэлэгдоржийн Эрэгзэн, **Алиша Вентреска-Миллер**, Жулиа Кларк, Брайн Миллер, Чинболдын Баяндэлгэрб, Равданбатын Эрдэнэцэцэг. Доод Цахир уулын Монголын эзэнт гүрний үеийн оршуулгын газар (The cemetery of the Mongol Empire in Dood Tsakhir Mountain). *STUDIA ARCHAEOLOGICA XLIII*: 8. DOI: <https://doi.org/10.5564/sa.v43i2.3184>
- 2023
OA ***Ventresca-Miller, Alicia R.**, S. Wilkin, R. Smithers, K. Larson, R. Spengler, A. Haruda, N. Kradin B. Bazarov, D. Miyagashev, Ts. Odbaatar, Ts. Turbat, E. Zhambaltarova, P. Kononov, J. Bayarsaikhan, A. Hein, P. Hommel, B. Nash, A. Nayak, N. Vanwezer, B. Miller, R. Fernandes, N. Boivin, P. Roberts. Adaptability of millets and landscapes: Ancient cultivation in North-Central Asia. *Agronomy*, 13(11), p.2848. <https://doi.org/10.3390/agronomy13112848>
- 2023
OA Wilkin, Shevan, **Alicia Ventresca-Miller**, Nicole Boivin, Antonella Pegergnana, Natalia Shishlina, Viktor Trifonov, and Peter Hommel. Curated cauldrons: Preserved proteins from early copper alloy vessels illuminate feasting practices in the Caucasian steppe. *iScience*, 26(9). <https://doi.org/10.1016/j.isci.2023.107482>
- 2023
OA ***Ventresca Miller, A.**, S. Wilkin, J. Bayarsaikhan, A. Ramsøe, J. Clark, B. Byambadorj, S. Vanderwarf, N. Vanwezer, A. Haruda, R. Fernandes, B. Miller, N. Boivin. Exceptional permafrost preservation reveals first proteomic evidence for yak milk consumption. *Nature: Communications Biology* 6(1), p.351. <https://doi.org/10.1038/s42003-023-04723-3>
- 2023
OA Lee, J., B. K. Miller, J. Bayarsaikhan, E. Johannesson, **A. R. Ventresca Miller**, C. Warinner, C. Jeong. Genetic population structure of the Xiongnu Empire at imperial and local scales. *Science Advances*, 9(15), p.ead3904. DOI: 10.1126/sciadv.adf3904
- 2022
OA ***Ventresca Miller, A.**, S. Wilkin, J. Hendy, Ts. Turbat, D. Batsukh, N. Bayarkhuu, P.-H. Giscard, J. Bemmman, J. Bayarsaikhan, B. Miller, J. Clark, P. Nanni, P. Roberts, N. Boivin. The spread of herds and horses into the Altai: How livestock and dairying drove social complexity in Mongolia. *Plos one*, 17(5), p.e0265775. <https://doi.org/10.1371/journal.pone.0265775>
- 2022
Bullion, Elissa, Zhuldyz Tashmanbetova and **Alicia Ventresca Miller**. Bioarchaeology in Central Asia: Growing from Legacies to Enhance Future Research. *Asian Perspectives*, 61(2): 0019, pp.37-367. doi:10.1353/asi.2022.0019.
- 2021
OA Shevan Wilkin, **Alicia Ventresca Miller**, Ricardo Fernandes, Robert Spengler, William Taylor, Dorcas R. Brown, David Reich, Douglas Kennett, Laura Kunz, Claudia Fortes, Aleksandra Kitova, Nina Morgunova, Pavel Kuznetsov, Andrey Epimakhov, Alan Outram, Egor Kitov, Aleksandr Khokhlov, David Anthony, Nicole Boivin. Dairying enabled Early Bronze Age Yamnaya steppe expansions. *Nature*, 598(7882): 629-633. <https://doi.org/10.1038/s41586-021-03798-4>
- 2021
Clark, Julia, Jamsranjav Bayarsaikhan, **Alicia Ventresca Miller**, Sandra Vanderwarf, Isaac Hart, Gino Caspari, William Timothy Trear Taylor. Mongolia's Frozen Heritage: A Summary of the Archaeology of the Cultural Cryosphere. *Journal of Glacial Archaeology*, 5: 103-120. <https://doi.org/10.1558/jga.19784>
- 2021
OA Hoggarth, J.A., S. Batty, V. Bondura, E. Creamer, C.E. Ebert, K. Green-Mink, C.L. Kieffer, H. Miller, C.V. Ngonadi, S.E. Pilaar Birch, C. Pritchard, K. Vacca, T.B. Watkins, E. Zavodny, **A. R. Ventresca Miller**. Impacts of the COVID-19 Pandemic on Women and Early Career Archaeologists. *Heritage*, 4(3): 1681-1702. <https://doi.org/10.3390/heritage4030093>
- 2021
OA Spengler, R. N. III, **A. R. Ventresca Miller**, T. Schmaus, G. Motuzaite-Matuzeviciute, B. Miller, S. Wilkin, T. Taylor, A. Haruda, P. Roberts, N. Boivin. An Imagined Past? Nomadic Narratives in Central Asian Archaeology. *Current Anthropology*, 62(3): 251-286.

- 2021** Kradin, N.N., Khubanova A.M., Bazarov B.A., Miyagashev D.A., Khubanov V.B. Konovalov P.B., Klementiev A.M., Posokhov V.F., **Ventresca Miller, A.***. Iron Age Societies of Western Transbaikalia: Reconstruction of Diet and Lifeways. *Journal of Archaeological Science: Reports*, 38: 102973. <https://doi.org/10.1016/j.jasrep.2021.102973>
- 2021** Wordsworth, Paul, Ashleigh F. Haruda, **Alicia R. Ventresca Miller**, Samantha Brown. The earliest water buffalo in the Caucasus: shifting animals and people in the medieval Islamic world. *Antiquity*, 95(383): 1231-1247. <https://doi.org/10.15184/aqy.2021.108>
- 2021** *OA* ***Ventresca Miller, A.,** J. Johnson, S. Makhortykh, S. Andruk, G. Toshev, L. Litvinova, C. Gerling, P. LeRoux, C. Makarewicz, N. Boivin, P. Roberts. Re-evaluating Scythian nomadism: Isotopic analysis of diet and mobility in Iron Age Ukraine. *PLOS ONE*, 16(3): e0245996. <https://doi.org/10.1371/journal.pone.0245996>
- 2020** *OA* Choongwon Jeong, Ke Wang, Shevan Wilkin, William Timothy Treal Taylor, Bryan K. Miller, Tömörbaatar Tüvshinjargal, Sodnon Ölziibayar, Raphaela Stahl, Chelsea Chioveli, Jan H. Bemmann, Sarah Nagel, Matthias Meyer, Florian Knolle, Nikolay Kradin, Bilikto A. Bazarov, Denis A. Miyagashev, Prokopy B. Konovalov, Elena Zhambaltarova, **Alicia Ventresca Miller**, Wolfgang Haak, Stephan Schiffels, Nicole Boivin, Erdene Myagmar, Jessica Hendy, Christina Warinner. A dynamic 6,000-year genetic history of Eurasia's Eastern Steppe. *Cell*, 183(4): 890-904. <https://doi.org/10.1016/j.cell.2020.10.015>
- 2020** Itahashi, Yu, Elina Ananyevskaya, Minoru Yoneda, **Alicia R. Ventresca Miller**, Yoshihiro Nishiaki, Giedre Motuzaite Matuzeviciute. Dietary diversity of Bronze–Iron Age populations of Kazakhstan quantitatively estimated through the compound-specific nitrogen analysis of amino acids. *Journal of Archaeological Science: Reports*, 33: 102565. <https://doi.org/10.1016/j.jasrep.2020.102565>
- 2020** *OA* Haruda, A, **Ventresca Miller, A.,** Pajmans, J. L. A., T., Tazhekeev, A., Bilalov, S., Hesse, Y., Priek, M., King, T., Thomas, R., Härke, H., Arzhantseva, I. The earliest domestic cat on the Silk Road. *Scientific Reports*, 10: 11241. <https://doi.org/10.1038/s41598-020-67798-6>
- 2020** *OA* ***Ventresca Miller, A.,** A. Haruda, B. Miller, R. Spengler, S. Wilkin, P. Roberts, P. Roberts, N. Boivin. Ecosystem engineering among ancient pastoralists in northern Central Asia. *Frontiers in Earth Science*, 8: 506373. <https://doi.org/10.3389/feart.2020.00168>
- 2020** *OA* ***Ventresca Miller, A.,** A. Haruda, V. Varfolomeev, A. Goryachev, and C. Makarewicz. Close management of sheep in ancient Central Asia: evidence for foddering, transhumance, and extended lambing seasons during the Bronze and Iron Ages. *STAR: Science & Technology of Archaeological Research*, 6(1): 41-60. <https://doi.org/10.1080/20548923.2020.1759316>
- 2020** *OA* ^Wilkin, S., **A. Ventresca Miller**, Bryan Miller, Robert Spengler, William Taylor, Ricardo Fernandes, Jessica Hendy, Erdene Myagmar, Nicole Boivin, Patrick Roberts. Economic Diversification Supported the Growth of Mongolia's Nomadic Empires. *Scientific reports*, 10: 3916. <https://doi.org/10.1038/s41598-020-60194-0>
- 2020** *OA* ^Wilkin, S., **A. Ventresca Miller**, W. Taylor, B. K. Miller, R. Hagan, F. Irmer, M. Bleasdale, A. Scott, S. Gankhuyag, C. Trachsel, J. Grossmann, M. Horton, E. Myagmar, N. Boivin, C. Warinner, J. Hendy. Dairy pastoralism sustained eastern Eurasian steppe populations for 5,000 years. *Nature Ecology & Evolution*, 4(3): 346-355. <https://doi.org/10.1038/s41559-020-1120-y>
- 2020** *OA* W. Taylor, J. Clark, J. Bayarsaikhan, T. Tüvshinjargal, J. Thompson Jobe, W. Fitzhugh, R. Kortum , R. Spengler, S. Shneider, F. Seersholm, I. Hart, N. Case, S. Wilkin, J. Hendy, U. Thuerling, B. Miller, **A. Ventresca Miller**, A. Picin, N. Vanwezer, F. Irmer, S. Brown, A. Abdykanova, D. Shultz, V. Pham, K. Douka, E. Jones, N. Boivin. Early Pastoral Economies and Herding Transitions in Eastern Eurasia. *Scientific reports*, 10: 1001. <https://doi.org/10.1038/s41598-020-57735-y>
- 2019** *OA* Stephens, L. et al. (**Ventresca Miller, A.**). Archaeological assessment reveals Earth's early transformation through land use. *Science*, 365: 897-902. DOI: 10.1126/science.aax1192
- 2019** *OA* ***Ventresca Miller, A.,** J. Johnson S. Makhortykh, L. Litvinova, T. Taylor, R. Rolle, and C. Makarewicz. Mobility and diet in the Iron Age Pontic forest-steppe: A multi-isotopic study of urban populations at Bel'sk. *Archaeometry*, 61(6): 1399-1416. <https://doi.org/10.1111/arc.12493>

- 2019**
OA *Ventresca Miller, A. and C. Makarewicz. Intensification in pastoralist cereal use coincides with the expansion of trans-regional networks in the Eurasian steppe. *Scientific Reports*, 9: 8363. <https://doi.org/10.1038/s41598-018-35758-w>
- 2019**
OA *Ventresca Miller, A., T. M. Bragina, Y. A. Abil, M. M. Ruleva, and C. Makarewicz. Pasture usage by ancient pastoralists in the northern Kazakh steppe informed by carbon and nitrogen isoscapes of contemporary floral biomes. *Archaeological and Anthropological Sciences*, 11(5): 2151-2166. <https://doi.org/10.1007/s12520-018-0660-4>
- 2018** *Ventresca Miller, A., R. Fernandes, A. Janzen, A. Nayak, J. Swift, J. Zech and P. Roberts. Sampling and Pretreatment of Tooth Enamel Carbonate for Stable Carbon and Oxygen Isotope Analysis. *Journal of Visualization Experiments*, 138: e58002. <https://doi.org/10.3791/58002>
- 2018**
OA Judd, M. A., J. Walker, A. Ventresca Miller, D. Rajev, A. Epimakhov, and B. Hanks. Life in the fast lane: settled pastoralism in the Central Eurasian Steppes during the Middle Bronze Age. *American Journal of Human Biology*, 30(4): e23129. <https://doi.org/10.1002/ajhb.23129>
- 2018** Hanks, B., A. Ventresca Miller, M. Judd, A. Epimakhov, D. Razhev, and K. Privat. Bronze Age diet and economy: New stable isotope data from the Central Eurasian steppes (2100-1700 BC). *Journal of Archaeological Science*, 97: 14-25. <https://doi.org/10.1016/j.jas.2018.06.006>
- 2018** *Ventresca Miller, A., C. Schuh, E. R. Usmanova, A. Logvin, I. Shevnina, and C. Makarewicz. Pastoralist mobility in Bronze Age landscapes of Northern Kazakhstan: $^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$ analyses of human dentition from Bestamak and Lisakovsk. *Environmental Archaeology*, 23(4): 352-366. <https://doi.org/10.1080/14614103.2017.1390031>
- 2017**
OA *Ventresca Miller, A., B. Hanks, M. Judd, A. Epimakhov, and D. Rajev. Weaning practices among pastoralists: New evidence of infant feeding patterns from Bronze Age Eurasia. *American Journal of Physical Anthropology*, 162(3): 409-422. <https://doi.org/10.1002/ajpa.23126>
- 2014** *Ventresca Miller, A., E. R. Usmanova, I. Shevnina, A. Logvin, and A. Kolbina. Dental health, diet, and social transformations in the Bronze Age: Comparative analysis of pastoral populations in northern Kazakhstan. Special Issue, The Bridging Eurasia Research Initiative: Modes of mobility and sustainability in the palaeoenvironmental and archaeological archives from Eurasia. *Quaternary International*, 348:130-146. <https://doi.org/10.1016/j.quaint.2014.01.036>
- 2014** *Ventresca Miller, A., E. R. Usmanova, V. N. Logvin, I. Shevnina, S. Kalieva, A. Logvin, A. Kolbina, A. Simonich, K. Privat, K. Haas, and M. Rosenmeier. Subsistence and social change in central Eurasia: stable isotope analysis of populations spanning the Bronze Age transition. *Journal of Archaeological Science*, 42:525-538. <https://doi.org/10.1016/j.jas.2013.11.012>

CHAPTERS IN EDITED VOLUMES

- 2023** Bayarsaikhan, J., Miller, B.K., and A. Ventresca Miller. L'enseignement des Morts: Modes de vie Dans l'empire (Learning from the Dead: Lifeways in the Mongol Empire). *Les Mongols et le Monde*, Edited by M. Favereau. Musee d'histoire de Nantes, 241-253.
- 2018** Ventresca Miller, A. and Makarewicz, C. Isotopic Approaches to Pastoralism in Prehistory: Diet, Mobility, and Isotopic Reference Sets. In: A. Ventresca Miller & C. Makarewicz eds., *Isotopic Investigations of Pastoralism in Prehistory*. Oxford, Routledge, 1-14.
- 2018** Ventresca Miller, A. Modeling modern surface water $\delta^{18}\text{O}$ to explore prehistoric human mobility. In: A. Ventresca Miller & C. Makarewicz eds., *Isotopic Investigations of Pastoralism in Prehistory*. Oxford, Routledge, 41-56.
- 2013** Ventresca Miller, A.. An interdisciplinary analysis of the social system at Lisakovsk: Bioarchaeological and ethnographic research and interpretations. *Archaeology of the Lisakovsk Site*. Monograph edited by E. Usmanova. Karaganda – Lisakovsk, Tengri Press. (In Russian)
- 2006** Usmanova E.R., Merts V.K., Kolbina A.B., and Ventresca A. On the Subject of "Text" in Bronze Age Funerary Rites. *Investigations of Cemeteries, Archaeology of Pavlodar and the Irtysh River*. (In Russian)

- 2005 Usmanova E., Merts V., **Ventresca A.**, Kolbina A. Features of the Andronovo Funeral Rite. Pavlodar, Kazakhstan. (In Russian)

MANUSCRIPTS SUBMITTED

*^denotes student-led manuscript; *denotes where I am a corresponding author*

- Submitted** **Ventresca-Miller, A. R.*.** The Emergence of Institutions, Infrastructure, and Regimes of Property in North-Central Asia (*Chapter in an Edited Volume, Winslow Workshop Series, Archaeology of Property Regimes*)
- Submitted** Campbell, Wade, Ted Gragson, Ashley Hampton, **A. R. Ventresca-Miller.** Perspective: Change, Transformation, and Endurance in Property Regimes (*Chapter in an Edited Volume, Winslow Workshop Series, Archaeology of Property Regimes*)

MANUSCRIPTS IN PREPARATION

*^denotes student-led manuscript; *denotes where I am a corresponding author*

- Partial Draft** ^Smithers, R., B. Miller, and **A. Ventresca-Miller***. Mortuary analysis of the Ivolga site. (*Not yet determined*).
- Partial Draft** Bayarsaikhan, Miller, Jeong, Warinner, Bayar and **A. Ventresca-Miller.** Ancient DNA of an Elite Mongol Cemetery. (*Not yet determined*).
- Partial Draft** **Ventresca-Miller, A.,** Wilkin, Larson, Garner. Proteomic analysis of an Early Bronze Age site in western Kazakhstan. (*Not yet determined*).

INVITED LECTURES

- 2025 *Unlocking Species Integration via Biomolecules.* Keynote Lecture at the 20th Annual Kolb Senior Scholars Colloquium at the University of Pennsylvania's Penn Museum. Celebrating Archaeological Science in the Penn Museum: On the Occasion of the Tenth Anniversary of CAAM.
- 2025 *Stuck in your teeth: The ancient history of diet via proteomics.* Food Literacy for All's 10th Annual "Fast Food For Thought" Lecture Series. University of Michigan.
- 2024 *Emergence of Infrastructure and Institutions in North-Central Asia.* Paper presented as part of a workshop on Property Regimes sponsored by Winslow Lectureship Series at Hamilton College.
- 2023 *Science of the Mongol Past in Northern Mongolia.* Paper presented as part of the conference, Golden Horde: Art, Material Culture, and Architecture, sponsored by the Max Planck Institute for the History of Science in Berlin, Germany.
- 2023 *Domesticated: How Cultivated Species Altered Ancient Silk Road Societies.* Paper presented at the Inner Asian and Altaic Studies Center, Harvard University.
- 2023 *Opening Welcome.* Steppe Sisters Annual Meeting and Lecture in York, United Kingdom.
- 2023 *Science of the Mongol Past.* Paper presented as part of the Mongols and the Widening of the World conference held during the opening of the exhibition in Nantes, France.
- 2022 *Life in the Northern Realms of the Mongol Empire.* Paper presented as part of the Mongol Zoominar series, sponsored by The Hebrew University of Jerusalem and The Louis Freiberg Center for East Asian Studies.
- 2020 *Before the Silk Roads: Tracking domesticates and interactions across Eurasia.* Paper presented at the Tang Center for Silk Road Studies, Berkeley. (remote lecture due to COVID)
- 2020 *Before the Silk Roads: Tracking domesticates and interactions across Eurasia.* Paper presented at ACES at Indiana University. (remote lecture due to COVID)
- 2020 *Archaeology Job Search.* Workshop for Archaeology Graduate Students at the University of Michigan,

Ann Arbor. (remote lecture / discussion)

- 2019** *Globalization and the emergence of the Silk Roads*. Paper presented for the Max Planck Society at the Max Planck for Human Cognitive and Brain Sciences, Leipzig.
- 2019** *Dietary transitions in the steppe: Neolithic to Bronze Age*. Paper presented at the Botai Culture and Other Neolithic Monuments of Central Asia Conference at Al-Farabi Kazakh National University.
- 2018** *Mosaic of Millet: Adoption of Cultigens by Pastoral Populations in Central and Inner Asia*. Paper presented at the Isotope Research in Archaeology Workshop at the Max Planck Institute for the Science of Human History.
- 2018** *Urban Nomads: Linking mobilities and economies in ancient Eurasia*. Department of Anthropology, University of Pittsburgh.
- 2017** *Mobility in the Age of Nomads? How Grains and Horses Transformed Eurasian Steppe Networks*. Department of Archaeology, Max Planck Institute for the Science of Human History.
- 2017** *Shifting Diets and Networks in Eurasia: Tracking Cereal Consumption by Ancient Pastoralists*. CCAW (Culture Contact in the Ancient World), Oxford University.
- 2017** *Shifting Diets and Networks in Eurasia: Tracking Cereal Consumption by Ancient Pastoralists*. Monuments and Pastoral Regimes – Archaeology of Inner Asia from the Eneolithic to the Early Iron Age, University of Bonn.
- 2015** *Understanding local communities within global trends: Investigations of diet, mobility and pastoral lifeways in the Eurasian steppe*. Bioarchaeology Seminar Series, Oxford University.
- 2015** *Against the Grain: A re-evaluation of the role of millet in the diets of central Eurasian populations*. The Introduction and Intensification of Agriculture in Central Eurasia: The Exception to the Rule or the Exception that Proves the Rule? German Archaeological Institute, Berlin.
- 2014** *Modeling Bronze Age Isoscapes: Evaluating prehistoric subsistence and movement via modern biosphere sampling in Kazakhstan*. Leibniz Graduate School RITaK, Bochum.
- 2014** *Dynamic Pastoral Landscapes*. On the Road – Bioarchaeological and Cultural Scientific Aspects of Non-Sedentary Communities. Topoi, Berlin.
- 2013** *Dynamic Pastoral Landscapes: Subsistence, Mobility, and Society in the Bronze Age Eurasian Steppe*. Postdoctoral Symposium 2013: New Perspectives on Human Development in Landscapes at CAU Kiel.

WORKSHOPS AND CONFERENCE SESSIONS ORGANIZED

- 2022** Session Co-Organizer, *Reconsidering the Mongol Empire: Integrating histories and archaeologies to build new narratives*, (SAA Meeting Chicago, IL).
- 2018** Workshop Organizer, *Mosaic of Millet* (Jena, Germany).
- 2017** Workshop Co-organizer, *Telescopic and Microscopic Visions of Central Asian Prehistory* (Jena, Germany).
- 2017** Session Co-Organizer, *Pastoralists as Catalysts of Change: How archaeological science is revolutionizing studies of the ancient steppe* (EAA Meeting Maastricht).
- 2017** Session Co-Organizer, *Extrapolating from the Provincial: Linking Ancient Societies, Technologies, and Landscape Use in Eurasia* (The Creation of Landscapes V Conference, Kiel).
- 2015** Session Co-Organizer, *Dietary Biographies: Chronicling past husbandry, mobility and exchange practices through isotopic analysis of plant and animal tissues*, (SAA Meeting San Francisco, CA).
- 2014** Workshop Co-organizer, *Coming of Age? Stable Isotopes in Archaeology* (Kiel, Germany).

- 2014 Session Co-Organizer, *Isotopic Investigations of Pastoral Production: Innovative Approaches to Patterns of Mobility, Economy, and Exploitation* (EAA Meeting Istanbul).
- 2009 Workshop Co-Organizer, *Taking Small Steps: Conducting Archaeological Research in Eurasia* (Univ. Pittsburgh).

CONFERENCE PRESENTATION

- 2026 **Ventresca-Miller, Alicia.** *Above the clouds: life, death, and mobility in the northern realms of the Mongol empire.* Paper presented at the Society for Historical Archaeology in Detroit, Michigan.
- 2025 M. Hrivnyak, **A. Ventresca-Miller**, J.T. Eng, J. Clark, S. Khurelsuk, B. Jamsranjav, M. Windle, H. Whitefield. *A Bioarchaeological Approach to Ageing and Resilience in the Mongol Empire.* Poster presented at the American Association for Biological Anthropologists.
- 2025 **Ventresca-Miller, Alicia.** *Above the clouds: Death and ritual in the northern realms of the Mongol Empire.* Paper presented at the *Caring for the Dead* workshop at Northwestern University.
- 2025 J. Bayarsaikhan, J. Clark, P. Hommel, B. Miller, B. Nasanchimeg, **A. Ventresca-Miller.** *The Development of an Engaged Archaeology Project in Mongolia.* Paper presented at the *Workshop: Community Archaeology and Heritage Narratives* workshop at the University of Michigan.
- 2024 Kara Larson, Ashleigh Haruda, Dan Garner, Zaria Cooper, Paul Wordsworth, **Alicia Ventresca-Miller.** *Re-evaluating sheep and goat differentiation through morphological and peptide analyses: A case study from Medieval Azerbaijan.* Paper presented at the European Association of Archaeologists in Rome, Italy.
- 2024 Dan Garner, Ashleigh Haruda, Kara Larson, Zaria Cooper, Paul Wordsworth, **Alicia Ventresca-Miller.** *Bardha 'a: Stable Isotopes and the Changing Animal Husbandry Practices of a Medieval City.* Paper presented at the European Association of Archaeologists in Rome, Italy.
- 2024 Jaruschka Pecnik, Shevan Wilkin, **Alicia Ventresca-Miller**, Verena Schuenemann, James Johnson, Sergey Makhortykh, Ludmilla Litvinova, Svetlana Andrukh, Gennady Toshev, Michael Krützen. *Proteomic analysis of Iron Age dental calculus provides insights on Scythian food systems.* Paper presented at the European Association of Archaeologists in Rome, Italy.
- 2024 Danielle Tutak, Kara Larson, **Alicia Ventresca-Miller.** *New Tools for Old Tools: Reexamining EBA Levantine Worked Bone Artifacts.* Poster presented at the Society for American Archaeology meeting in New Orleans, Louisiana.
- 2024 Julia Clark, Jamsranjav Bayarsaikhan, Peter Hommel, Sosorbaram Khurelsukh, Rebecca O'Sullivan, Yury Esin, Bryan Miller. Bryce Lowry, Natalia Éguez, **Alicia Ventresca-Miller.** *Hearth Fatigue: Excavation of a deeply stratified campsite from the Medieval era in northern Mongolia.* Poster presented at the Society for American Archaeology meeting in New Orleans, Louisiana.
- 2024 **Alicia Ventresca-Miller.** *The Cart Before the Horse: Disentangling Domesticates and Transport Along the Great Steppe Routes.* Paper presented at the American Association for Biological Anthropologists meeting in Los Angeles, California.
- 2023 Claire Thomson, Iride Tomažič, Christina Cartaciano-Marino, and **Alicia Ventresca-Miller.** *Developing a Protocol for Ancient Bone Collagen Extraction.* Poster presented at the UROP Symposium, University of Michigan, Ann Arbor.
- 2023 Anna Luurtsema, Kara Larson, **Alicia Ventresca Miller** and Henry Wright. *An Isotopic and Proteomic Investigation of Uruk Period Faunal Remains from Tepe Farukhabad, Iran.* Poster presented at the 85th Annual Society for American Archaeology meetings in Portland.
- 2020 *Dairying and domestication in the Altai Mountains.* Poster to be presented at the 84th Annual Society for American Archaeology meetings in Austin. *Canceled due to COVID19*
- 2018 *Re-evaluating Scythian nomadism: Stable isotopic analysis of diet and mobility in Iron Age Ukraine.* Paper presented at the 9th International Symposium of Biomolecular Archaeology in Jena Germany.

- 2018** *Mosaic of Millet: Adoption of Cultigens by Pastoral Populations in Central and Inner Asia.* Paper presented at the 9th Annual conference of Mongolia, Buryatia, and northern China in Ulan-Ude, Russia.
- 2018** *Close management of sheep in ancient Central Asia: Early evidence for foddering and transhumance in the Final Bronze Age.* Paper presented at the 82nd Annual Society for American Archaeology meetings in Washington, DC.
- 2017** *The Rise of Urban Economies in the Steppe: Diversification of Pastoral Lifeways.* Paper presented at Telescopic and Microscopic Visions of Central Asian Prehistory Workshop in Jena, Germany.
- 2017** *Pastoralist mobility in Bronze Age landscapes of Northern Kazakhstan: $^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$ analyses of human dentition from Bestamak and Lisakovsk.* Paper presented at the 22nd Annual European Association of Archaeology conference in Maastricht, Netherlands.
- 2015** *A Grain of Truth: Evaluating dietary reconstructions and interpretations in central Eurasian populations.* Paper presented at the 21st Annual European Association of Archaeology conference in Glasgow, Scotland.
- 2015** *Local or non-local? Evaluation of techniques for constructing $\delta^{18}\text{O}$ baselines.* Paper presented at the 80th Annual Society for American Archaeology meetings in San Francisco, California.
- 2014** *Archaeological Research in Post-Soviet Central Asia: Adjusting our focus from global to local datasets.* Paper presented at the 20th Annual European Association of Archaeology conference in Istanbul, Turkey.
- 2014** *Dynamic Pastoral Landscapes: Modeling Bronze Age Isoscapes in Central Asia.* Paper presented at the 20th Annual European Association of Archaeology conference in Istanbul, Turkey.
- 2014** *Prehistoric globalization in Central Asia: Reconsidering the Andronovo development.* Paper presented at the 20th Annual European Association of Archaeology conference in Istanbul, Turkey.
- 2014** *Human-Animal Relationships and Agency: Evidence for interaction, companionship, and consumption in mortuary practices.* Paper presented at NordicTAG in Stockholm, Sweden.

INTERNATIONAL PROJECTS

- | | |
|------------------------|---|
| 2025 to Present | The first herders: Early Bronze Age (3300 – 2500 cal BCE) mortuary practices in Kazakhstan; Director. In collaboration with the Aktobe Regional University. This cemetery is under threat from erosion and needs to be excavated in order to preserve one of the only EBA cemeteries identified in Kazakhstan. PI: Dr. A. Ventresca-Miller |
| 2019 to Present | Life under the Mongol Empire: Transmission of commodities, cuisine, and disease; Director. In collaboration with the Institute of Archaeology (MAS), National Museum of Mongolia, Chinggis Khaan National Museum, and NOMAD Science. This cemetery is under threat from looting and needs to be excavated in order to preserve one of only two Mongol period elite cemeteries identified in Mongolia. PI's: Dr. A. Ventresca Miller, Dr. J. Bayarsaikhan and Dr. J. Clark |
| 2017 to 2020 | Mobility in the Age of Nomads; Director. At the dawn of the Iron Age, a dramatic shift in the scale of interactions occurred across Eurasia. Recent research suggests that pastoralists were supplementing their diets with domesticated cereals and that many communities were sedentary. Mobility will be investigated from the Trans-Urals to eastern Mongolia through stable isotope analyses (SIA) of human and horse osteological remains alongside detailed reference isoscapes built from targeted modern samples. http://www.shh.mpg.de/910455/mobility-nomads |
| 2017 to Present | Sustenance in the Hungry Steppe: The Emergence and Resilience of Final Bronze Age Regional Centers; Director. Geophysical prospection and excavation of Final Bronze Age (FBA) settlements identified as regional centers and associated mortuary sites. Compare strategies of resource exploitation related to human dietary intake, pasturing of animals, cultivation of domesticated plants, and metal resources. Explore how regional centers were anchored within broader externally focused socio-political networks that |

emerged in the FBA. **PI's: Dr. A. R. Ventresca Miller** (MPI-SHH), **Dr. V. Varfolomeev** (Karaganda State Univ., Kazakhstan), **Dr. A. Haruda** (Martin Luther University Halle-Wittenberg).

- 2016 to 2026** **Dietary Reconstruction in Serbia and Hungary (Bronze Age); Co-director, Stable Isotope Analyst.** Human dietary reconstruction using stable isotopic analysis (C, N) of human and faunal remains. **PI's: K. Pompeani** (Univ. of Pittsburgh), **Dr. A. R. Ventresca Miller** (MPI-SHH)
- 2016 to Present** **Tuzusai Project, Kazakhstan (Iron Age); Stable Isotope Analyst.** Stable isotopic analysis (C, O) of sheep teeth to investigate livestock management and mobility; Stable isotopic analysis (C, N) of grains to examine shifting temporal patterns of manuring fields. **PI: Dr. C. Chang** (Sweetbriar College)
- 2015 to Present** **Dzhankent Project, Kazakhstan (Medieval); Stable Isotope Analyst.** Stable isotopic analysis (C, O, Sr) of sheep, goat and cattle teeth to understand livestock trading. **PI's: Dr. I. Arzhantseva** (Russian Academy of Sciences - Moscow), **Prof. Dr. H. Härke** (Univ. of Tübingen)
- 2014 to 2018** **Bel'sk Project, Ukraine (Iron Age); Senior Investigator.** Physical analysis of human skeletal remains (sex, age, pathology, dental wear), stable isotopic analysis (C, N, O, Sr) of human and faunal samples to understand diet, mobility and trade. **PI's: Dr. J. Johnson** (Univ. of Copenhagen), **Prof. Dr. S. Makhortykh** (Ukrainian Institute of Archaeology), **Prof. Dr. T. Taylor** (Univ. of Vienna). **Current funding (National Geographic) provides for stable isotope analyses and student lab assistant**
- 2014 to 2017** **Dynamic Pastoral Landscapes: Subsistence, Mobility, and Interaction in the Bronze Age Eurasian Steppe, Kazakhstan; Director.** Create isotopic reference sets for comparison with ancient humans and fauna. Stable isotopic analyses (C, N, O, Sr) of modern plants, water, and fauna at two archaeological sites to investigate mobility and subsistence in the past.
- 2010 to 2017** **Metallurgical Practice, Technology and Social Organization during the Middle to Late Bronze Age in the Southern Urals, Russia; Stable Isotope Analyst.** Stable isotope analysis (C, N) of human remains to reconstruct diet and explore practices of weaning. **PI's: Dr. B. Hanks** (Univ. of Pittsburgh), **Dr. R. Doonan** (Univ. Sheffield)
- 2008 to 2017** **Bestamak Project, Kazakhstan (Bronze Age); Biological Anthropologist / Stable Isotope Analyst.** Physical analysis of human remains, stable isotopic analysis (C, N, O, Sr) of human remains to understand diet and mobility. **PI: Dr. A. Logvin** (Kostanai Governmental Univ., Kazakhstan), **Dr. I. Shevnina** (Kostanai Governmental Univ., Kazakhstan)
- 2004 to 2017** **Lisakovsk Project, Kazakhstan (Bronze Age); Field Director / Bioarchaeologist / Stable Isotope Analyst.** Excavation of mortuary remains, analysis of human remains, stable isotopic analysis (C, N, O, Sr) of human remains to reconstruct diet and mobility. **PI: E. Usmanova** (Karaganda State Univ. Museum, Kazakhstan)

TEACHING EXPERIENCE

Assistant Professor, University of Michigan (50% position in Anthropology)

Methods and Applications in Archaeological Science. This seminar is designed to acquaint undergraduate and graduate students with the concepts and methods used by archaeologists in scientific analyses. The focus is specifically on organic materials. Methods include ancient DNA, proteomics, residue analysis, and isotopes. *Winter 2023, 2024, 2025*

Archaeology II (Core Course). This seminar is designed to acquaint graduate students, across subfields of anthropology, with the concepts and methods used by archaeologists to understand the organization and development of complex societies. Concepts to be discussed include social evolution, the role of domesticates, status and rank, complex hunter-gatherers, states, and urbanism. *Winter 2021*

Early Civilizations. A course for advanced undergraduates; lectures on the domestication of plants and animals globally, ecological variation, and the rise of complex societies. Fulfills the upper level writing requirement for undergraduates. *Winter 2020, 2021, 2022, 2024, 2025, 2026*

Archaeological Field School. This field course is for undergraduates to learn advanced archaeological

methods. This includes proper excavation techniques, recording, and mapping. In addition, as we excavate cemeteries, students had the opportunity to learn basic human osteology and sample collection methods.
Summer 2022

Lecturer, MPI-SHH, Spring 2018

Modern Approaches to Human Osteology. A course for early career colleagues and researchers; lecture related to osteological elements and markers, paleopathology, biological age and sex; lectured on bone biochemistry and diet and the interpretation of anthropological datasets.

Lecturer, CAU Kiel, Winter 2014

Human Osteology I and II. A course for undergraduate and graduate students; lectured and taught laboratory sessions related to human bone growth and development, osteological elements and markers, paleopathology, biological age and sex, non-metric variation, anthropometric techniques, joints and locomotion, muscle skeletal markers; lectured on bone biochemistry and diet, aDNA, formation processes of the archaeological record, and the interpretation of anthropological datasets.

Teaching Fellow, University of Pittsburgh, Fall 2007; Spring 2008; Fall 2010

Archaeological Ceramics. A course for graduate students; assisted students with course materials, lectures, and constructing vessels; organized and assisted with clay and temper preparation; learned vessel firing techniques; assisted with archaeological ceramics experiments.

Artifact Analysis. A course for upper level undergraduates; held lab hours and assisted students with lithic, ceramic, and faunal analysis of artifacts from an Iroquois village (16th century); created spreadsheets for analysis and recording; assisted students with final reports and graphs for each type of analysis.

Teaching Assistant, University of Pittsburgh, Fall 2006; Spring 2007

Introduction to Archaeology. A course for undergraduate students; prepared lectures, quizzes, and other course materials; lectured weekly on various topics including survey methodology and dating techniques.

CURATORIAL EXPERIENCE

ReConnect/ReCollect

- Attended multiple online discussions with stakeholders regarding the human remains in our collections
- Urged the collaborative project leaders to reconsider the name of the current collection
- Attended event on weaponry, helped to set up the objects, interacted with stakeholders

Ford Collection Curation Committee

- Advisory Board for non-NAGPRA human remains
- Advising museums and departments on both ethical and policy concerns
- Redrafting of our Guidelines for the Stewardship of Human Remains

Meeting with Donors

- Attend meetings with donors at the Research Museums Collections space to discuss objects and collections that we are managing.

Exhibition of the Chinese Government Collection

- Planning to exhibit clothing, furniture, and weaving equipment from the Pan-American exhibition, China section.

Exhibition at the Sindecuse Dental Museum

- Planning and consultation of the use of images and labels for an exhibition on dental modifications through time.

Research Requests for the Worcester collection

- Collaboratory 2yr Project Grant: ReConnect/ReCollect: Reparative Connections to Philippine Collections
- Collaboratory 5x5 Incubator Grant: Connecting Communities and Collections: Exploring Reciprocal Access to Philippine Indigenous Archives at Michigan
- R. Punzalan class SI633 - Digital Best Practices
- Consultation on the PBS series "Asian Americans" - Images and filming of select glass plates and photographs
- SI699 Digital Curation project (E. De Vera)

Donations to the collection

- Assessing the feasibility of new acquisitions, in terms of space and research goals of the Asia section

Collections used for teaching

SUPERVISION AND MENTORING

Doctoral Student Supervision

- Julia McQuaig, **Supervisor**, University of Michigan (Doctoral Student)
- Dan Garner, **Supervisor**, University of Michigan (Doctoral Student)
- Kara Larson, **Supervisor**, University of Michigan (Doctoral Candidate)
- Georgia Oppenheim, **Co-Supervisor**, University of Michigan (Doctoral Candidate)
- Aubree Marshall, **Dissertation Committee Member**, Michigan State University (Doctoral Student)
- Julian Schultz, **Dissertation Committee Member**, University of Michigan (Doctoral Student)
- Erina Baci, **Dissertation Committee Member**, University of Michigan (Doctoral Candidate)
- Zhaneta Gjyshja, **Second Reader Pre-doctoral Paper**, University of Michigan (Doctoral Student)
- Iride Tomazic, **Dissertation Committee Member**, University of Michigan (Doctoral Candidate)
- Kimberly Sanchez, **Mentor**, University of Michigan (Doctoral Candidate)
- James Meador, **Mentor**, University of Michigan (Doctoral Candidate)
- Yuchao Zhao, *Taming the Plateau: From Hunting to Herding in the Second Millennium BCE at Meilong Cave, western Tibet*. **Dissertation Committee Member**, University of Michigan (PhD Completed 2022)
- Teresa Runge, *The Use of Maxillary Sinus Imaging as a Tool in Human Identification*. **External Supervisor**, Liverpool John Moores University, United Kingdom (PhD Completed 2023)
- Patxi Perez Ramallo, *Pilgrimage to Santiago: Osteological and Biomolecular Analysis of Medieval Individuals*. **Committee Member**, Universidad del Pais Vasco, Spain (PhD Completed 2021)
- Shevan Wilkin. *Dairying and Dietary Adaptive Evolution in Prehistoric Eurasia*. **Mentor**, Max Planck Institute for the Science of Human History, Germany (PhD Completed 2020)
- Katharina Fuchs. *Evaluating diet, health and social organisation during the 2nd mil BCE in the Northern Caucasus: Interdisciplinary analysis of the Bronze Age cemetery Kudachurt 14*. **Mentor**, Kiel University, Germany (PhD Completed 2020)

Master's Student Supervision

- **External Supervisor** of Teresa Runge. *Comparative analysis of dental wear and diet in Iron Age Ukraine*

Undergraduate Student Supervision

- Allison Densel, **Undergraduate Thesis Advisor**, Anthropology, University of Michigan
- Danielle Tutak, **Undergraduate Thesis Advisor**, Anthropology, University of Michigan
- Claire Thompson, **UROP Student in Ancient PI Lab**, University of Michigan
- Anna Luurtsema, **Undergraduate Thesis Advisor**, Anthropology, University of Michigan (now a graduate student at U. Pennsylvania)
- Madaline Topor, **Committee Member**, Anthropology, University of Michigan
- Isabel Matias, **Mentor**, Anthropology, University of Michigan
- **Supervisor (Second Reader)** of Teresa Runge (B.A.). *Comparative analysis of dental wear and diet in Iron Age Ukraine*. Kiel University, Germany.
- **Supervisor (Second Reader)** of Philipp Steevens (B.A.). *Isotopic Evidence for Human Weaning Practices at the Bronze Age (1780-1660 BC) site of Lisakovsk in Northern Kazakhstan*. Kiel University, Germany.

COMMISSION OF TRUST

2018-19 **Officer of the Equal Opportunities Commission:** Support and encourage equal opportunities within the MPI-SHH (Institute-wide)

MEDIA

Chemical and Engineering News “Isotopic analysis reveals sophisticated farming in ancient cities”

<https://cen.acs.org/analytical-chemistry/art-artifacts/Isotopic-analysis-reveals-sophisticated-farming/101/web/2023/12>

Science News “The oldest known horseback riding saddle was found in a grave in China”

<https://www.sciencenews.org/article/oldest-saddle-horseback-riding-china-grave>

Miami Herald “Melting permafrost reveals bodies of ancient Mongolians — and their diets, study says”
<https://www.miamiherald.com/news/nation-world/world/article273977685.html>

Phys.Org “Yak milk consumption among Mongol Empire elites”
<https://phys.org/news/2023-03-yak-consumption-mongol-empire-elites.html>

Heritage Daily “PERMAFROST PRESERVATION REVEALS EVIDENCE FOR EARLY YAK MILK CONSUMPTION”
<https://www.heritagedaily.com/2023/04/permafrost-preservation-reveals-evidence-for-early-yak-milk-consumption/146737>

ArchaeologyWiki “Yak milk consumption among Mongol Empire elites”
<https://www.archaeology.wiki/blog/2023/04/03/yak-milk-consumption-among-mongol-empire-elites/>

ScienceDaily “Yak milk consumption among Mongol Empire elites”
<https://www.sciencedaily.com/releases/2023/03/230331144517.htm>

ARCHAEOLOGY “Study Suggests Herds Fueled Changes in Ancient Mongolia”
<https://www.archaeology.org/news/10551-220519-mongolia-dairy-herds>

NEWSWEEK “Got Milk: Bronze Age Population Soared Thanks to Livestock” <https://www.newsweek.com/got-milk-bronze-age-population-soared-thanks-livestock-1707595?fbclid=IwAR1HrUwuZ-yJTnOYqipinuh6wHjrDOFc7ta-JRnbF3pPVOMvc6UG3YufU>

GIZMODO “Long Known as Nomads, Scythians May Have Been Solidly Sedentary”
<https://gizmodo.com/long-known-as-nomads-scythians-may-have-been-solidly-s-1846448929>

SCIENCE ALERT “Secrets From Ancient Bones Have Changed What We Know About The Scythians”
<https://www.sciencealert.com/secrets-locked-in-ancient-bones-upend-what-we-know-about-the-scythians>

SCIENCE DAILY “Scythian people weren't just nomadic warriors, but sometimes settled down”
<https://www.sciencedaily.com/releases/2021/03/210310150420.htm>

SCIENCE NEWS “Scythians Led More Complex Lives Than Previously Assumed”
<http://www.sci-news.com/archaeology/scythian-ukraine-09439.html>

HAARETZ “Nomadic Warrior People of Scythia’ Is a Myth, Archaeologists Discover”
<https://www.haaretz.com/archaeology/.premium.HIGHLIGHT-nomadic-warrior-people-of-scythia-is-a-myth-archaeologists-discover-1.9606726>

POPULAR ARCHAEOLOGY “Scythian people weren’t just nomadic warriors, but sometimes settled down”
<https://popular-archaeology.com/article/scythian-people-werent-just-nomadic-warriors-but-sometimes-settled-down/>

ZME SCIENCE “Scythians weren’t the nomadic warriors many portray them as — they also settled down”
<https://www.zmescience.com/science/archaeology/scythians-nomadic-warriors-07032021/>

SCIENTIFIC REPORTS “The earliest domestic cat on the Silk Road” received *17,123 article downloads in 2020*, placing it as **one of the top 100 downloaded papers** in 2020

SCIENTIFIC AMERICAN (Quoted in 2019)
<https://www.scientificamerican.com/article/ancient-teeth-reveal-social-stratification-dates-back-to-bronze-age-societies/>

The University Record (U. Michigan)

March 16, 2021 <https://record.umich.edu/newsletters/03-16-21/>

October 18, 2019 <https://record.umich.edu/newsletters/10-18-19/>

REVIEWER FOR

JOURNALS

American Journal of Biological Anthropology, American Journal of Physical Anthropology, Anthropological and Archaeological Sciences, Antiquity, Archaeological Research in Asia, Asian Perspectives, CHINA Science, Current Anthropology, Ecography, Heritage Science, International Journal of Osteoarchaeology, International Journal of Paleopathology, Journal of Anthropological Archaeology, Journal of Archaeological Science, Journal of Archaeological Science: Reports, Journal of Field Archaeology, Nature, Nature Communications, PNAS, PLOS One, Quaternary International, Quaternary Science Reviews, Radiocarbon, Science, STAR: Science and Technology in Archaeological Research, The Silk Road Journal

BOOKS

Cambridge University Press (Book Proposals)

GRANTS

French National Research Agency (ANR) (Grant Proposal); US National Science Foundation (Grant Proposals)

FACULTY TRAINING (PEDAGOGY, MENTORSHIP, CLIMATE)

Systemic Racism and Anti-Blackness Facilitated Dialogue, RaceTalk LLC for Department of Anthropology, **2021**

Principles and Practices of Anti-Racist Pedagogy, CRLT for UMMAA, **2021**

Mentoring Workshop for New Faculty, Rackham Graduate School, MORE, **2021**

The Art of Leading a Research Group, LSA Faculty Workshop, Advance Program, **2021**

Getting Your Book Published, LSA Faculty Workshop, Advance Program, **2020**

Creating Climates Resistant to Sexual Harassment: A Toolkit for Academic Leaders, **2019 and 2020**

SPECIALIZED TRAINING

SPATIAL Stable Isotope Short Course, University of Utah, **2014**

Applied Stable Isotope Geochemistry, University of Pittsburgh, **2008**

Paleopathology, University of Pittsburgh, **2008**

Advanced GIS Systems and Computer Methods, **2008**

Human Skeletal Analysis, University of Pittsburgh, **2007**

GIS, GPS, and Computer Methods, University of Pittsburgh, **2007**

National Environmental Protection Act Class (as it pertains to Section 106), **2002**

Introduction to Federal Projects and Historic Preservation Law Class, **2001**

SERVICE

INTERNAL (MICHIGAN)

2025-2026	Member of the Executive Committee for the Department of Anthropology
2025 (Fall)	Responsible Conduct of Research and Scholarship Course for the Department of Anthropology
2023-present	Archaeology at Michigan Advisory Committee for the College of Literature, Science and the Arts
2024 (Winter)	Responsible Conduct of Research and Scholarship Course for the Department of Anthropology
2023-2025	Collective Action Council for the Department of Anthropology
2023 (Winter)	Member of the Executive Committee for the Department of Anthropology
2023 (Fall)	Responsible Conduct of Research and Scholarship Course for the Department of Anthropology
2023-2025	Outreach Committee for the Museum of Anthropological Archaeology
2023-2024	CRLT Teaching Circle for the Museum of Anthropological Archaeology
2024	Professionalization workshop for Graduate Students for the Museum of Anthropological Archaeology
2022-2026	Faculty Sponsor: Eurasia Collective
2020-2026	Member of the Safety Committee for the College of Literature, Science, and the Arts
2020-2025	Faculty Sponsor: Collaborative Archaeology Workgroup (CAW)

2021-2023	Member of the Executive Committee for the Museum of Anthropological Archaeology
2021 (Winter)	Graduate School Application Workshop for underrepresented scholars in Anthropology, Writing Statements for the Department of Anthropology
2021 (Winter)	Member of the Executive Committee for the Department of Anthropology
2019-21	Faculty Advisor: Archaeology Club (U. Michigan)
2019-20	Member of the Executive Committee for the IPCAA (Interdepartmental Program in Classical Art and Archaeology)
2019-20	Co-Organizer: Curator's Colloquia

EXTERNAL

2023-2025	Secretary, Steering Committee Member: Steppe Sisters Network, a platform for women, and people that identify as women, who research Central and Inner Asia
2023-2024	Trustee, Deputy Treasurer for Membership: International Society for Biomolecular Archaeology
2021-present	Editorial Board Member: Quaternary International
2019-present	Co-Founder: MASS (Michigan Archaeological Science Society)
2017-present	Co-Founder: Steppe Sisters Network, a platform for women, and people that identify as women, who research Central and Inner Asia
2018	Conference Co-Organizer: 8 th International Symposium on Biomolecular Archaeology, held at Fredrich Schiller University (FSU)
2017	Co-organizer: Bi-weekly professionalization seminar for students and staff of MPI-SHH (Archaeology)

LANGUAGES

German: Intermediate Level of Speaking, Reading, Writing
Russian: Advanced Level of Speaking / Intermediate High Level of Reading and Writing
Kazakh: Beginner Level of Speaking, Reading
Mongolian: Beginner Level of Speaking