

Curriculum Vitae

Michael David Frchetti

Professor
Department of Anthropology
Washington University in St. Louis
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CURRENT RESEARCH:

Archaeology, ecology, socio-political organization and economy of prehistoric and contemporary societies of Asia, particularly nomadic pastoralists. I focus on human ecological systems and cultural landscape reconstruction using Remote Sensing in conjunction with Geographic Information Systems (GIS), especially in extreme or marginal ecologies (e.g. Inner Asian high mountains and deserts, Island Indonesia). I also work to develop theoretical and quantitative approaches for modeling social complexity, with the goal of understanding emerging worlds of social interaction in ancient and historical timeframes.

Languages: Fluent/Conversational: English, Russian, Italian, and French;
Basic/Functional: German, Spanish, Chinese, and Uzbek.

EDUCATION:

2004 Ph.D. (Anthropology) University of Pennsylvania
1999 M. Phil *w/distinction* (Archaeology) St. John's College, Cambridge University (UK)
1997 B.A. *w/honors* (Anthropology) State University of New York at Buffalo

ACADEMIC POSITIONS:

2018 Professor, Department of Anthropology, Washington University in St. Louis
2011-2018 Associate Professor, Department of Anthropology, Washington University in St. Louis
2011-Present Associate Professor, International & Area Studies (Program Faculty), Washington University in St. Louis
2005-Present Director: Spatial Analysis, Interpretation, & Exploration (SAIE) laboratory, Washington University in St. Louis (www.saie.wustl.edu)
2005-2011 Assistant Professor, Department of Anthropology, Washington University in St. Louis

PROFESSIONAL AND INTERNATIONAL POSITIONS:

- National Geographic Explorer, National Geographic Society (2013-Present)
- Foreign Corresponding Member, Deutsches Archäologisches Institute, Berlin (Elected 2017)
- Associate Editor, *Journal of World Prehistory*, 2013-Present (*Advisory Editor*, 2008-2013)
- Scientific Board Member, *Eurasia Antiqua* (Journal of the German Archaeological Institute) (2017-2022)

- International Advisory Committee, Shanghai Archaeological Forum (Chinese National Academy of Science)
- Scientific Advisory Member for National Center of Science and Technology Evaluation (Ministry of Education and Science, Republic of Kazakhstan)
- Board of Directors, Louis J. Kolb Society, University of Pennsylvania Museum of Anthropology and Archaeology (2012-2014)
- Research Associate, Cotsen Institute of Archaeology (UCLA, 2008-Present)
- Elected Fellow & Advisory Committee (2009) The Fine Foundation for Scientific Research (Carnegie Mellon University)

DISTINCTIONS, POST-DOCTORAL FELLOWSHIPS, & AWARDS

- 2017, 2018 Invited Participant — “Sci-Foo”, Google Headquarters, Mountainview CA.
- 2016 (Spring) Visiting Research Scholar, Cotsen Institute of Archaeology (UCLA)
- 2015 (Fall) Consulting Scholar University of Pennsylvania, Museum of Anthropology and Archaeology
- 2012-2013 Visiting Research Scholar at The Institute for the Study of the Ancient World, NYU.
- 2010 Sony Electronics Award at Washington University in St. Louis (one of two faculty members selected for est. \$4000 of Sony computer/media equipment)
- 2009 Fulbright Research Scholar, Almaty (Kazakhstan)
- 2008-2010 SSRC (Social Sciences Research Council) Post-doctoral Eurasian Research Fellowship
- 2007 ArtSci Council teaching award, Washington University in St. Louis
- 2004-2005 Visiting Post-doctoral Scholar, Eurasian Department, Deutsches Archäologisches Institut, Berlin (Germany)
- 2004-2005 Post-doctoral fellow, Program for the Archaeology of Ukraine & Eurasia, University of Pennsylvania (Conducted at the Deutsches Archäologisches Institut, Berlin)
- 2000-2004 Fellow, Louis J. Kolb Society of Fellows (University of Pennsylvania)

BOOKS (* INDICATES PEER-REVIEWED)

- * *(In Preparation)* Frachetti, M.D. *Ancient Inner Asia. Case Studies in Early Societies.* Cambridge, Cambridge University Press.
- * 2018 Boivin, N. and M. Frachetti (eds.). *Ancient Globalization and the “People Without History”*, Cambridge, Cambridge University Press.
- *2015 Frachetti, M and R. Spengler (eds.) *Mobility and Ancient Society in Asia and the Americas.* New York, Springer.
- *2008 Frachetti, M.D. *Pastoralist Landscapes and Social Interaction in Bronze Age Eurasia.* Berkeley: University of California Press.

JOURNAL ARTICLES AND BOOK CHAPTERS

- **(in prep)* Frachetti, M.D. Old World Order: The Bronze Age of the Eurasian Steppe. *Journal of Archaeological Research*

(ARTICLES, CONT'D)

- **(in Review)* V. Narasimhan, N. Patterson,...**M. Frachetti**, Ron Pinhasi, and David Reich. The genetic formation of South and Central Asia. *Science*.
- (in press)* Maksudov, F, Bullion, E., Henry, E.R., Hermes, T.R., Merkle, A., and M.D. Frachetti. Nomadic Urbanism at Tashbulak: A New Highland Town of the Qarakhanids, *in* C. Baumer and S. Ecklin (eds.) *Central Asian Urbanism*. Bern, Switzerland
- * 2018 Spengler RN, Maksudov F, Bullion E, Merkle A, Hermes T, **Frachetti, M.** (2018) Arboreal crops on the medieval Silk Road: Archaeobotanical studies at Tashbulak. PLOS ONE 13(8): e0201409. <https://doi.org/10.1371/journal.pone.0201409>
- *2018 Hermes, T.R., **Frachetti, M.D.**, Bullion,E.A., Maksudov, F, Mustafokulov, S, and C.A. Makarewicz. Urban and nomadic isotopic niches reveal dietary connectivity along Central Asia's Silk Roads. *Nature: Scientific Reports*.
- * 2018 Boivin, N. and M.D. Frachetti. Introduction, in Boivin, N and M. Frachetti (eds), *Ancient Globalization and the "People Without History*. Cambridge (UK), Cambridge University Press.
- * 2018 Frachetti, M.D. and E. Bullion. Ch 5: Bronze Age Participation in a Global Ecumene: Mortuary Practice and Ideology across Inner Asia, in Boivin, N and M. Frachetti (eds), *Ancient Globalization and the "People Without History*. Cambridge (UK), Cambridge University Press.
- *2018 Frachetti, M.D., Smith, C.E., C. Copp. Pastoralist Participation (PastPart): A model of mobility and connectivity across the Inner Asian Mountain Corridor, in R. L. Anemone and G. C. Conroy. *New Geospatial Approaches to the Anthropological Sciences*. Albuquerque: University of New Mexico Press.
- *2017 Doumani Dupuy, P., Spengler, R.N., and M.D. Frachetti. Eurasian Textiles: Case studies in exchange during the incipient and later phases of the Silk Roads. *Quaternary International* (doi: <http://dx.doi.org/10.1016/j.quaint.2016.09.067>)
- *2017 Frachetti, M.D., Smith, C.E., Traub, C., & T. Williams. Nomadic ecology shaped the highland geography of Asia's Silk Roads. *Nature* 543, 193–198 (09 March 2017) (doi:10.1038/nature21696)
- *2016 Miller,N., Spengler R.N., and M.D. Frachetti. Millet cultivation across Eurasia: Origins, spread, and the influence of seasonal climate. *The Holocene* 26(10), 1566-1575 (DOI: 10.1177/0959683616641742)
- *2015 Frachetti, M.D. and Spengler, R.N. Introduction. In Frachetti, M.D. and R.N. Spengler (eds.) *Mobility and Ancient Society in Asia and the Americas*, p. 1-8. New York, Springer.
- *2015 Frachetti, M.D. Nomadic Mobility, Migration, and Environmental Pressure in Eurasian Prehistory. In Frachetti, M and R. Spengler (eds.) *Mobility and Ancient Society in Asia and the Americas*, p. 7-16. New York, Springer.
- *2015 Doumani, P.N., Frachetti, M.D., Beardmore, R., Schmaus, T., Spengler III, R.N., and A.N. Mar'yashev. Burial Ritual, Agriculture, and Craft Production among Bronze Age Pastoralists at Tasbas (Kazakhstan). *Archaeological Research in Asia* 1, 17-32 (DOI:10.1016/j.ara.2015.01.001).
- *2014 Spengler R.N., Frachetti M.D., and P.N. Doumani. Late bronze age agriculture at Tasbas in the Dzhungar mountains of eastern Kazakhstan. *Quaternary International* 348, 147-157 (doi: <http://dx.doi.org/10.1016/j.quaint.2014.03.039>)

- 2014 Frachetti, M.D. Seeds for the Soul: Ideology and Diffusion of Domesticated Grains Across Inner Asia. In *Reconfiguring the Silk Road*, ed. V. Mair, and J. Hickman. Philadelphia: University of Pennsylvania Museum Press, pgs. 41-54.
- *2014 Frachetti, M.D. and F. Maksudov. The Landscape of Ancient Mobile Pastoralism in the Highlands of southeastern Uzbekistan, 2000 B.C. – A.D. 1400. *Journal of Field Archaeology* 30(3): 195-212.
- *2014 Spengler R.N., Frachetti M.D., Doumani, P.N., Rouse L.M., Cerasetti B., Bullion E., and A.N. Mar'yashev Early agriculture and crop transmission among Bronze Age mobile pastoralists of Central Eurasia. *Proceedings of the Royal Society B* 281: 20133382 (doi: <http://dx.doi.org/10.1098/rspb.2013.3382>)
- *2013 Frachetti, M.D. Commentary on "Pastoralism and Pilgrimage: Ibn Khaldun's Bayt-State Model and the Rise of Arabian Kingdoms" by Joy McCorrison. *Current Anthropology* 54(5): 607-41.
- *2013 Spengler, R.N., Frachetti, M.D. and G.J. Fritz. Ecotopes and Herd Foraging Practices in the Steppe/Mountain Ecotone of Central Asia during the Bronze and Iron Ages. *Journal of Ethnobiology* 33(1): 125-47.
- *2013 Frachetti, M.D. Bronze Age Pastoralism and Differentiated Landscapes along the Inner Asian Mountain Corridor. In *Connections and Complexity: New Approaches to the Archaeology of South and Central Asia*, eds. Shinu Abraham, Praveena Gullapalli, Teresa Raczek and Uzma Rizvi. Pp. 279-98. Los Angeles: Left Coast Press.
- *2012 Doumani, Paula and M.D. Frachetti. Bronze Age Textile Evidence In Ceramic Impressions: Weaving And Pottery Technology Among Mobile Pastoralists Of Central Eurasia. *Antiquity* 86: 368-82.
- *2012 Frachetti, M.D. and L. Rouse. Central Asia, the steppe and the Near East, 2500-1500 BC. In *Companion to the Archaeology of the Near East*, ed. D. Potts, pp. 687-705. London: Blackwell Publishers.
- *2012 Frachetti, M.D. Multi-Regional Emergence of Mobile Pastoralism and Non-Uniform Institutional Complexity Across Eurasia. *Current Anthropology*. 53(1): 2-38.
- *2011 Frachetti, M.D. The Migration Concept in Central Eurasian Archaeology. *Annual Review of Anthropology* 40:195–221.
- *2010 Frachetti, M.D., Spengler, R.S., Fritz, G. J., and A.N. Mar'yashev. Earliest Evidence of Broomcorn Millet and Wheat in the Central Eurasian Steppe Region. *Antiquity* 84 (326): 993-1010.
- *2010 Frachetti, M.D., Benecke, N, Mar'yashev, A. N., and P. Doumani. Eurasian Pastoralists and Their Shifting Regional Interactions at the Steppe Margin: Settlement History at Mukri, Kazakhstan. *World Archaeology* 42(4): 622-646.
- *2009 Frachetti, M.D. and N. Benecke. From Sheep to (Some) Horses: 4500 Years of Herd Structure at the Pastoralist Settlement of Begash (Southeastern Kazakhstan). *Antiquity* 83 (322): 1023-1037.
- *2009 Frachetti, M.D. Differentiated Landscapes and Non-Uniform Complexity among Bronze Age Societies of the Eurasian Steppe. In *Social Complexity in Prehistoric Eurasia: Monuments, Metals and Mobility*, eds. Bryan Hanks And Kathryn Linduff, 19-46. Cambridge: Cambridge University Press.

- 2009 Fentress, Elizabeth, Michael Frachetti, and Kimberly Brown. Chapter 2: Methodology. In *An Island Through Time: Jerba Studies, volume 1*, eds. E. Fentress, R. Holod, and A. Drine, 21-36. Portsmouth: *Journal of Roman Archaeology, Supp. monograph 71*.
- 2009 Frachetti, M.D. Chapter 4: Geography. In *An Island Through Time: Jerba studies, volume 1*, eds. E. Fentress, E., R. Holod, and A. Drine, 55-71. Portsmouth: *Journal of Roman Archaeology, Supp. monograph 71*.
- 2009 Frachetti, M.D. and Alexei N. Mar'yashev. Periodizatsii i Khronologiya Dolgovremenogo Poseleniya Bigash [Periodization and Chronology of the Long-term Settlement Begash]. *Izvestia, National Academy of Science, Republic of Kazakhstan 1*: 70-83.
- *2008 Frachetti, M.D. Variability and Dynamic Landscapes of Mobile Pastoralism in Ethnography and Prehistory. In *The Archaeology of Mobility: Nomads in the Old and in the New World*, eds. H. Barnard and W. Wendrich, 366-96. *Cotsen Advanced Seminar Series 4*. Los Angeles: Cotsen Institute of Archaeology, UCLA.
- *2007 Frachetti, M.D. and Alexei N. Mar'yashev. Long-term Occupation and Seasonal Settlement of Eastern Eurasian Pastoralists at Begash, Kazakhstan. *Journal of Field Archaeology 32*(3): 221-42
- 2007 Mar'yashev, Alexei and Michael Frachetti. Issledovanie mogil'nikov i poseleniya u sela Bigash v vostochnom Semirech'ye [Study of the Burial and Settlement Begash in Eastern Semirech'ye]. *Istoria i Arkeologiya Semirech'ya 3*: 100-105
- 2006 Frachetti, M.D. The Dzhungar Mountains Archaeology Project: Reconstructing Bronze Age Life in the Mountains of Eastern Kazakhstan. In *Beyond the Steppe and the Sown*, eds. D.L. Peterson, L.M. Popova and A.T. Smith, 122-41. Boston: Brill Academic Publishing.
- *2006 Frachetti, M.D. Digital archaeology and the Scalar Structure of Space and Time: Modeling Mobile Societies of Prehistoric Central Asia. In *Digital Archaeology*, eds. Evans T. and P. Daly, 128-47. London: Routledge.
- 2006 Frachetti, M.D. Ancient Nomads of the Andronovo Culture: The Globalization of the Eurasian Steppe during Prehistory. In *Of Gold and Grass: Nomads of Kazakhstan*, eds. C. Chang and K. Guroff, 21-8. Washington: Foundation for International Arts & Education.
- 2004 Frachetti, M.D. Archaeological Explorations of Bronze Age Pastoral Societies in the Mountains of Eastern Eurasia. *The Silk Road 2*(1): 3-8.
- *2004 Frachetti, M.D. and C. Chippindale. Invited Commentary on: "Ethnography and Material Culture: A Review" by Christopher Tilley. *Journal of Interdisciplinary Crossroads 1*(1): 40-44.
- 2003 Aubekerov, B. Zh., S.A., Nigmatova, and M.D. Frachetti. Geomorfologicheskie Osobennosti Raiona Arkheologicheskogo Pamyatnika Begash Severnoi Dzhongarii [Geomorphology of the Region and Archaeological Monument of Begash, Northern Dzhungaria]. In *Aktual'nie Problemy Geosistem Aridnikh Territorii*, 287-89. Almaty: National Kazakh University.
- *2002 Frachetti, M.D. Bronze Age Exploitation and Political Dynamics of the Eastern Eurasian Steppe Zone. In *Ancient Interactions: East and West in Eurasia vol. 1*, eds. K. Boyle, C. Renfrew, and M. Levine, 161-70. Cambridge: McDonald Institute Monographs.
- *2002 Frachetti, M.D. and C. Chippindale. Alpine Space, Alpine Time and Prehistoric Human Experience. In *European Landscapes of Rock-Art*, eds. C. Chippindale and G. Nash, 116-43. London: Routledge.

- 2000 Daly, P., M. Frachetti, and J. Okkonen, GIS and Early Åland: Spatial Analysis in an Archipelago of Southwestern Finland. In *CAA '96: Computer Applications and Quantitative Methods in Archaeology*, eds. K. Lockyear, T. J. Sly, and V. Mihailescu-Birliba, Vol. 845: 91-100. Oxford: BAR International Series.
- 1999 Zubrow, E., M. Nunez, P. Daly, M. Frachetti, P. Trella, D. Chestnut, P. Mitchell, K. Niskanen, A. Rajala, and E. Thurston. Archaeological Survey of the Finnish-Russian Border and the Oulanka River Valley. *Oulanka Reports* 20: 5-60.
- 1998 Zubrow, E.B.W. and M. Frachetti. The Changing World-view of Prehistoric Populations. *KVHAA Konferenser* (Stockholm, Sweden) 40: 27-63.
- 1997 Núñez, M., J. Okkonen, M. Frachetti, and P. Daly. GIS Where Altitude is a Function of Time. In *Archaeological Applications of GIS: Proceedings of Colloquium II, UISPP XIIIth Congress, Forli, Italy, September 1996*, eds. I. Johnson, & M. North. Sydney University Archaeological Methods Series 5.

BOOK REVIEWS & PUBLIC WRITING

- March 8, 2017 Frachetti, Michael, "Simulating the Ancient Silk Roads" *Nature Ecology and Evolution Community*. [<https://natureecoevocommunity.nature.com/users/34826-michael-d-frachetti/posts/15466-simulating-the-ancient-silk-roads>]
- 2014 Frachetti, M.D. Archaeology and Participation across Inner Asia's High Frontiers. *SAA Archaeological Record (Special Issue: Mountain and High-altitude archaeology)* 14(2): 20-26.
- 2009 Frachetti, Michael. Review of: *Art and Archaeology of Afghanistan: Its Fall and Survival. A Multi-disciplinary Approach*, edited by Juliette van Krieken-Pieters Leiden: Brill, (2006). *Journal of Asian History* 43(1): 78-79.

GRANTS: (Amounts reflect 'Direct Cost')

- 2018-20 \$30,000 Principal Investigator, National Geographic Society Committee for Research and Exploration.
"Nomadic urbanism and connectivity along the Medieval Silk Road"
- 2017-20 £500,000 (ca. \$673,000) Senior Collaborator, Arcadia Foundation
"Digital documentation of Cultural Heritage in the Maldives" (w/PI: M. Feener)
- 2017-18 \$7,950 Principal Investigator, Grimm Travel Grant/FRG, Washington University in St. Louis – "Archaeological Research of the Qarakhanids (ARQ)"
- 2016-18 \$20,000 Principal Investigator, Fondation Max von Berchem
"Archaeological Research of the Qarakhanids (ARQ): 'Nomadic' urbanism and the architecture of production at the mountain town of Tashbulak, Uzbekistan (11th c. AD)"
- 2015-16 \$18,000 Principal Investigator, National Geographic Society Committee for Research and Exploration.
"Uncovering a Nomadic City: High-resolution architectural mapping at Medieval Tashbulak (Uzbekistan)."
- 2014-16 \$38,000 Principal Investigator, Fondation Max von Berchem

- “Archaeological Research of the Qarakhanids (ARQ): ‘Nomadic’ urbanism and the architecture of production at the mountain town of Tashbulak, Uzbekistan (11th c. AD)”
- 2014-16 \$35,000 Principal Investigator, I-CARES Washington University in St. Louis
 “Iron production, urbanism, and environmental sustainability along the Medieval Silk Road: ecological niche construction and ancient industrial development at the highland smelting center Tashbulak, Uzbekistan.”
- 2012-13 \$15,000 Principal Investigator, National Geographic-Waitt Foundation
 “Remote Sensing and archaeology of a highland nomadic center, Uzbekistan.”
- 2011-12 \$7000 Principal Investigator, Grimm Travel Grant Washington University in St. Louis
- 2010-12 \$35,000 Principal Investigator, National Science Foundation
 “High Risk Archaeology Along the Inner Asian Mountain Corridor: Investigating the Earliest Development Of Mobile Pastoralism In The Zaamin/Zeravshan Mts. Of Uzbekistan”
- 2011 est. \$30,000 Principal Investigator Planet Action Foundation, Imagery Grant (SPOT satellite imagery granted on a competitive basis)
 “High Resolution Mapping of Social Response to Coastline Change on Nias, Indonesia”
- 2011 \$7,000 Principal Investigator, Faculty Research Grant, Washington University in St. Louis
- 2010 est. \$18,000 Principal Investigator Geoeye Foundation, Imagery Grant (IKONOS satellite imagery granted on a competitive basis).
 “High Resolution Mapping of Social Response to Coastline Change on Nias, Indonesia”
- 2008-10 \$200,000 Consultant, US Dept. of State Bureau of Educational and Cultural Affairs (Grant # (ECA/PE/C-05-01) PI: Dr. K. Anne Pyburn
 “Community Cultural Resource Management for the Silk Road: A Citizen Exchanges Proposal for Kyrgyzstan” (administered by Indiana University).
- 2009-10 \$10,000 Principal Investigator, MAGEEP Washington University in St. Louis/McDonnell Academy
 “Coastline loss and the socio-environmental impact of displaced communities: Correlating environmental catalysts for shoreline change with human response in Nias, Indonesia.”
- 2008-10 \$20,000 Postdoctoral Research Grant for Eurasia, Social Science Research Council (SSRC) (listed also under awards)
 “Nomadic networks and the Inner Asian mountain corridor: Documenting the earliest spread of domestic animals and pastoralism in Inner Asia.”
- 2005-08 \$109,092 Principal Investigator, National Science Foundation
 “Archaeological Studies in the Dzhungar Mountains and the Balkhash Desert of Eastern Kazakhstan.”
- 2008 \$7,500 Principal Investigator, Mary-Morris Stein Foundation Grant
 “Dzhungar Mountains Archaeological Project”
- 2008 \$7,000 Principal Investigator, Grimm Travel Grant ,Washington University in St. Louis
 “Dzhungar Mountains Archaeological Project”
- 2007 \$5,000 Principal Investigator, Mary-Morris Stein Foundation Grant

“Dzhungar Mountains Archaeological Project”

- 2002 \$11,900 Co-PI, Dissertation improvement grant National Science Foundation “Dzhungar Mountains Archaeology Project - Modeling Prehistoric Pastoral Nomadism and Landscapes of Eastern Kazakhstan.”
- 1998 \$20,000 Co-Investigator, National Science Foundation, "High Risk Exploratory Research: Archaeological Survey along the Northern Finnish/Russian Border.

SUPERVISED GRADUATE STUDENT GRANTS AND RESEARCH

- 2017-2018 \$17,297 Principal Investigator w/ Co-PI Elissa Bullion
NSF Doctoral Dissertation Improvement Grant: Burial Practice, Social Identity, and Kinship: Investigating Community Responses to Highland Urbanism in Medieval Uzbekistan
- 2011-2012 \$20,000 Principal Investigator w/ Co-PI Paula Doumani
NSF Doctoral Dissertation Improvement Grant: Development of Ceramic Technology in the Eastern Eurasian Steppe Zone
- 2010-11 \$18,830 Principal Investigator w/ Co-PI Lynne Rouse
NSF Doctoral Dissertation Improvement Grant: The Ancient Murgab Archaeology Project: Perspectives on Bronze Age Interaction in southern Turkmenistan
- 2010-11 \$15,000 Principal Investigator w/ Co-PI Lynne Rouse
Wenner-Gren Doctoral Research Fellowship: The Ancient Murgab Archaeology Project: Perspectives on Bronze Age Interaction in southern Turkmenistan
- 2010-11 \$20,000 Principal Investigator w/ Co-PI Robert Spengler
NSF Doctoral Dissertation Improvement Grant: Plant Use and Domestic Economy among Eurasian Mobile Pastoralists: Semirech'ye, Kazakhstan during the Bronze and Iron Age Interface

ARCHAEOLOGICAL/APPLIED FIELD WORK

- 2018-2020 Investigator: Maldives Heritage Survey (Maldives) w/ Department of Heritage, Maldives, Oxford University, Earth Observatory of Singapore (w/PI: M. Feener).
- 2011-Present Director/PI: ARQ (Archaeological Research of the Qarakhanids) // Uzbek/American Collaborative Archaeological Research Uzbekistan.
Washington University in St. Louis/ National Institute of Archaeology, Samarkand Uzbekistan
- 2009- 2011 Director/PI: NIASE, [Nias (Indonesia) Assessment of Sustainability and Ecology]
Washington University in St. Louis/ Nanyang University (Earth Observatory) Singapore w/Dr. Patrick Daly
- 1999 - Present Director/PI: Dzhungar Mountains Archaeology Project (DMAP), Kazakhstan
Washington University in St. Louis/ National Institute of Archaeology, Kazakhstan
- 2010- 2011 Director/PI: Zaamin Archaeological Pilot Project (ZAPP), Uzbekistan
Washington University in St. Louis/ National Institute of Archaeology, Samarkand Uzbekistan
- 2000 GIS specialist and surveyor, Volubilis, Morocco
Institute of Archaeology, University College London Directors: E. Fentress/G. Palumbo

- 1996-2000 GIS specialist and cartographer, Jerba, Tunisia
 U. Of Pennsylvania/American Academy in Rome. Directors: R. Holod/ E. Fentress
- 1998 Co-field director and GIS specialist, Kuusamo, Finland
 SUNY at Buffalo/University of Oulu, Finland. Directors: E. Zubrow/ M. Nunez
- 1996 Surveyor/cartographer/excavator, Polvijarvi, Finland (Karelia)
 University of Helsinki, Department of Archaeology Director: Ari Siiriainen
- 1996 Surveyor/cartographer/ trench leader, Yli-Ii, Finland
 University of Oulu, Finland. Director: M. Nunez

INVITED LECTURES

- 09/2018 Hay Festival, Queretaro Mexico
 “New Cartographies of the Silk Road: Connectivity in the Old and New Worlds”
- 02/2018 SALT lecture series, Long Now Foundation (San Francisco)
 “Open Source Civilization and the unexpected origins of the Silk Road”
- 02/2018 Middle Tennessee State University, Distinguished Lecture.
 “Nomadic Cities and Silk Road dynamics: reconnecting the steppe and the sown”
- 11/2017 National Geographic Museum, Guest Speaker for “NatGeo Nights: Silk Road”
- 11/2017 Christian-Albrechts-Universität zu Kiel, Department of Archaeology
 “Ecology and Political Structure of Modular Cities along the Medieval Silk Road”
- 10/2017 Washington University in St. Louis, Environmental Studies
 “Ecology, Mobility, and Urban Networks of the Medieval Silk Road”
- 05/2017 GooglePlex, Mountain View CA, “ScienceFoo- 2017”
 “Modeling the Silk Roads from herding ecology”
- 03/2017 University of Bonn, Symposium “Monuments and Steppe Regimes”
 Keynote lecture: “New Model Civilizations: Institutional Participation and the Formation of Central Asia’s Open Ecumene”
- 02/2016 Hearst Museum, UC Berkeley
 “Uncovering a Lost City of the Qarakhanid Empire: Alpine Urbanism in Medieval Uzbekistan”
- 01/2016 Cotsen Institute of Archaeology, UCLA
 “Uncovering a Lost City of the Qarakhanid Empire: Alpine Urbanism in Medieval Uzbekistan”
- 12/2015 Second Shanghai Archaeological Forum, China
 Keynote lecture Series: “The 'Centrality of Central Asia' Revisited: Ancient Civilization along the Inner Asian Mountain Corridor”
- 11/2015 University of Chicago, Franke Institute/CEERES
 “Silk Routes Rewoven: Inner Asia at 4000 and 1000 Years Ago”
- 10/2015 University of Pennsylvania, Center for Ancient Studies

- “Mountain Urbanism, Metallurgy, and the Institutional Transformation of Asia in the 11th Century CE.”
- 03/2015 Archaeological Institute of America (Rockford, Ill)
“The Ancient Inner Asian Ecumene: Complexity and Civilization Redefined”
- 01/2015 Stanford University, School of Earth, Energy, and Environmental Sciences
"Between Deserts and Mountains: an archaeological perspective on climate and geography of SE Kazakhstan"
- 01/2015 Stanford University, Stanford Archaeology Center
“Bronze Age Inhabitation, Mobility, and Displacement among the first farming herders of highland Inner Asia: case studies from Eastern Kazakhstan”
- 01/2015 University of California, Santa Cruz, Department of Anthropology
“Uncovering a Nomadic City Along the Medieval Silk Road”
- 11/2014 Washington University in St. Louis, Interdisciplinary Program in the Humanities
“Nomadic Cities and Mountain Materiality along the Medieval Silk Road”
- 10/2014 Georgetown University, Symposium on the Silk Road
“Complexity, Interaction and Social Participation Along Prehistoric Silk Roads”
- 02/2014 University of Michigan, Department of Anthropology
“The Shape of Inner Asian Civilization in the Bronze Age”
- 01/2014 Archaeological Institute of America (St. Louis)
“A New Face of Ancient Civilization: Bronze Age Nomads and their Influence across Inner Asia”
- 03/2013 Goethe Universität, Frankfurt (Germany).
“Local and Global Innovations of Bronze Age Inner Asian Civilization” (Keynote lecture)
- 02/2013 Institute for the Study of the Ancient World, NYU.
“Big Prehistory and the Mashup of Inner Asian Civilization”
- 11/2012 Oxford University, Department of Archaeology.
“Civilizations recast: an epigenetic understanding of Culture, Participation and Non-uniform Institutional complexity”
- 11/2012 New York University, Department of Anthropology
“Bronze Age Interaction, "Participation," and the Shape of Inner Asian Civilization”
- 08/2012 National Center of Science and Technology Evaluation & Ministry of Education and Science, Almaty Kazakhstan. “Preparing Scientific Grants: Purpose, Content & Impact”
- 03/2012 New York University, Institute for the Study of the Ancient World
“Formative and Transformative Ecumenes: Nomadic Worlds of Kazakhstan in the Bronze and Iron Ages”
- 11/2011 Fudan University (China) Institute of Historical Geography & Department of Anthropology.
“Bronze Age Eurasian Nomads and the ‘Pulse’ of Asia”
- 11/2011 University of Pennsylvania Museum of Archaeology and Anthropology –
Kolb Fellows Invited Senior Lecture

- “Institutional formation and Bronze Age social ‘participation’ among Inner Asian pastoralists”
- 3/2011 University of Pennsylvania – Penn Museum, Distinguished lecture for Secrets of the Silk Road exhibition.
 “Seeds for the Soul: East/West Diffusion of Domesticated Grains along the Inner Asian Mountain Corridor” Online link to lecture:
http://www.youtube.com/watch?v=r7qq9__GWN0&feature=BFp&list=PL286E934A56954D08&index=4
- 2/2010 Harvard University – Department of Anthropology, Archaeology Colloquium
 “Three Regional Vectors Toward Pastoralism Across Eurasia”
- 2/2010 Washington University in St. Louis – MAGEEP/I-CARES lecture series
 “Coastline loss and the socio-environmental impact of displaced communities: Correlating environmental catalysts for shoreline change with human response”
- 12/2009 National Museum of History, Bishkek (Kyrgyzstan)
 “The History of the American/Kyrgyz Community Heritage Project” (*in Russian*)
- 11/2009 University of Wisconsin, Madison – Department of Anthropology
 “Pastoralists from the Mountains; The New Paradigm of Nomadic Societies of Eurasia”
- 11/2009 University of Pennsylvania Museum of Archaeology and Anthropology –
 Kolb Fellows Senior Lecture
 “Coming down the mountain: The 4th millennium BC paths of Inner Asian Pastoralism”
- 10/2009 Indiana University, Sinor Lecture Series – Central Eurasian Studies Dept.
 “The Process of Pastoralism in Eurasia: A mountain view to the steppes”
- 3/2009 American Embassy in Almaty, Kazakhstan
 “Prehistoric Nomadism in the territory of Kazakhstan”
- 9/2008 Cotsen Institute of Archaeology, UCLA
 “The Emergence and Nature of Inner Asian Pastoralism”
- 9/2008 Archaeological Institute of America (AIA), Baltimore
 “Pastoralist Landscape Formation and Early Herding Societies along the Inner Asian Mountain Corridor”
- 3/2008 University of Buffalo, Department of Anthropology/National Center for Geographic Information Analysis (NCGIA), IGERT Lecturer
 “Simulated Vegetation Indexes and their implications for High-Resolution Paleo-landcover reconstruction in the Eurasian Steppe Zone”
- 2/2008 Eastern Illinois University, Department of Anthropology
 “The emergence of Mountain Pastoralism in Inner Eurasia”
- 12/2007 University of Bologna, Ravenna (Italy), Department of Archaeology
 “Living on the edge: Pastoralist Occupation of Semirech’ye, Kazakhstan”
- 12/2007 Milan BICOCCA University (Italy), Complex Systems and Artificial Intelligence Research Center

- “Simulating dynamic systems of settlement: A GIS application for modeling nomadic landscapes through time.”
- 1/2007 Washington University in St. Louis, 2007 Metropolitan St. Louis Grants Conference
Lunchtime Keynote Presentation: “Decoding Eurasian Nomadic Networks: Integrating Social and Scientific Approaches”
- 4/2006 University of Pittsburgh, Department of Anthropology
“A Controversial History of Steppe Nomadism: New archaeology from a pastoralist landscape”
- 3/2005 Colorado State University, Fort Collins, Department of Anthropology
“Variation and Structure in Bronze Age Mountain Pastoralism: Modeling Dynamic Contexts of Regional Interaction in Eastern Eurasia”
- 2/2005 Washington University, St. Louis, Department of Anthropology
“Mountain Pastoralism in Eastern Eurasia and the Structured Variability of Bronze Age Regional Interaction”
- 2/2005 Halle University (Germany), Collaborative Nomadic Research Center
“Bronze Age Mountain Pastoralism of Inner Asia and the Seeds of Globalization: Variability in Networks of Interaction”
- 10/2004 Institute of Archaeology (Kyiv, Ukraine)
“The Use of GIS for Modeling Nomadic Migration and Cultural Landscapes of the Steppe Zone in the Bronze Age” *in Russian*
- 10/2004 Harvard University, Department of Anthropology
“Regional Landscapes of Interaction among Bronze Age Pastoralists of the Eurasian Steppe and Central Asia”
- 9/2004 Deutsches Archäologisches Institut (Berlin, Germany)
“Modeling Pastoral Nomadism and Methods for Assessing Seasonality and Mobility Patterns at the Bronze Age Site of *Begash* in the Dzhungar Mountains of Eastern Kazakhstan”
- 5/2004 Stanford University, Center for East Asian Studies & Silk Road Foundation
“Changing Prehistoric Nomads: Cultural Landscapes and Social Networks of Bronze Age Eurasian Pastoralists”
- 4/2003 University of California, San Diego (Department of Anthropology)
“Expanding Civilizations: The Shaping of Nomadic Landscapes and Regional Interaction on the Steppes of Central Asia”
- 10/2002 Harvard University (Department of Anthropology)
“New Perspectives on the Bronze Age of East Eurasia: New Data from Excavations in the Dzhungar Mountains of Eastern Kazakhstan”
- 10/2002 Bowdoin College (Maine)
“The Archaeology of “Big Landscapes” or “The Search for Chingis Khan and Osama Bin Laden”
- 4/2001 State Hermitage Museum, Central Asian Archaeology Dept. (St. Petersburg, Russia)

“The Archaeological Landscape Study of Jerba, Tunisia” *in Russian*

INTERNATIONAL CONFERENCES AND SYMPOSIA

- 04/2018 Society for American Archaeology (SAA) annual meeting: Washington DC.
- 04/2018 Annual Symposium, Center for Ancient Studies, University of Pennsylvania
 “Urban Scaling, Nomadic Cities, and Network Modularity: New Paradigms in ancient urbanism”
- 11/2017 American Anthropological Association (AAA) annual meeting, Washington DC
 “Utopia/Dystopia” (Session organizer with Jason De Leon).
- 10/2017 Eurasian Archaeology Conference, Cornell University. “Bronze Age shrines and fertility in Southeast Kazakhstan”
- 5/2017 Caravan Archaeologies: En route to the past, present, and future: Pica, Chile. “Routing “Grass-Routes” Caravan Routes: Simulation and actuality along Asia’s Silk Road”
- 4/2017 Society for American Archaeology (SAA) annual meeting: Vancouver. “Terra Cognita: How stories and discoveries are made digitally in Central Asian Archaeology”
- 02/2017 Universitat Pompeu Fabra (Barcelona), Symposium on dryland archaeology. “Local diversification of pastoralist strategies in the arid/foothill ecotones of Inner Asia”
- 11/2016 American Anthropological Association (AAA) annual meeting, Minneapolis. “Globalization or Business as Usual”
- 11/2016 Neubauer Collegium, Univ. of Chicago Workshop: *Imperial Interstices: Agents of Eurasian Interaction in Late Antiquity*, Discussant.
- 9/2016 Wenner-Gren Sponsored Symposium *Prehistoric Metallurgy of Eastern Xinjiang* (Nanjing University, China) “Advances in the archaeo-metallurgy of Kazakhstan” and “Theoretical models of social transmission”
- 8/2016 World Archaeological Congress, Kyoto Japan. “Innovation on the crossroads: Bronze Age metallurgy in Semirechye, Kazakhstan” (presented by co-author Dr. Miljana Radivojevic)
- 5/2016 Symposium: Ancient DNA and Archaeology (Banbury Center, Cold Springs Harbor NY). “Alternative Models of Genetic flow in prehistoric Eurasia”
- 3/2016 Advanced Seminar *New Geospatial Approaches in Anthropology* (School for Advanced Research, Santa Fe). “Pastoralist Participation (PastPart): A model of mobility and connectivity across the Inner Asian Mountain Corridor”
- 1/2016 American Historical Association (Annual Meeting, Atlanta)
 Panelist: Silk Road Roundtable: A Dialogue between Archaeologists and Historians
- 11/2015 Symposium “Farmers, Traders and Herders. The Bronze Age in Central Asia and Khorasan (3rd-2nd Millennium BCE)” DAI, Berlin, Germany. “Mining, milling, and moving: the relationship between Bronze Age herding, metallurgy and farming in the mountains of Kazakhstan”
- 05/2015 Text and Labor in Asian Agriculture, Neubauer Collegium (U. of Chicago)
 Panelist: Ecologies, Migration, Spatial Differentiation
- 04/2015 Society for American Archaeology (SAA) annual meeting: San Francisco. “The common sense of Institutions and the modalities of Happiness”

- 03/2015 Symposium “Introduction & Intensification of Agriculture in Central Eurasia: Exception to rule or exception that proves rule?” DAI, Berlin, Germany. “Bronze Age Agriculture and Regional Participation across Inner Asia”
- 02/2015 AAAS, San Jose. “Modeling Non-Uniform Complexity Across the Inner Asian Mt. Corridor” (Session Organizer)
- 04/2014 Society for American Archaeology (SAA) annual meeting: Austin. “Archaeology should be: Futuristic” (Session Organizer)
- 08/2013 Shanghai Archaeological Forum, Shanghai China. Discussant.
- 04/2013 Society for American Archaeology (SAA) annual meeting: Honolulu. “Local and Global Warp Factors: Scalar expansion of Commodity, Technology, & Participation, ca 2500 BC” (Session Co-Organizer)“
- 01/2013 Art and Archaeology of Central Asia: Works in Progress – Hofstra University. “Agriculture and Mining among Highland Mobile Pastoralists of Semirech’e (3000 – 1500 BCE)”
- 11/2012 Archaeology of the S. Taklamakan: Hedin and Stein’s Legacy and New Explorations, SOAS/British Museum, London, UK. “Ancient Pastoralism High and Low: Mountain nomads and their link with desert economies of Inner Asia”
- 10/2012 Goethe Institut, Washington DC. Invited panelist for “Archaeologies of Identity And Bonds With The Past”
- 10/2012 The Third Eurasian Archaeology Conference, Cornell University. “The Highlander’s Realm: There can be only one!”
- 12/2011 Invited 2nd International Conference “Great Migrations: Asia to America” Harriman Inst.—Columbia University/UNESCO/Embassy of Kazakhstan “Mobility, ‘Migration’, and Environmental Pressure in Eurasian Context”
- 11/2011 Invited International Symposium “Emergence of Bronze Age Societies – A Global Perspective” Baoji, China. “Bronze Age Interaction and Institutional “Participation” across Eurasia”
- 03/2011 Society for American Archaeology (SAA) annual meeting: Sacramento. “Expanding worlds and local Bronze Age communities along the Inner Asian Mt. Corridor”
- 03/2011 International Symposium *Reconfiguring the Silk Road: New Research on East-West Exchange in Antiquity*, University of Pennsylvania Museum of Archaeology and Anthropology. “Seeds for the Soul: East/West Diffusion of Domesticated Grains along the Inner Asian Mountain Corridor.”
- 11/2010 The Fine International Conference on Gigapixel Imaging for Science, Carnegie Mellon University, Pittsburgh. “Gigastan-X: Extreme high resolution panoramas in Central Asia.”
- 10/2010 MAGEEP International Symposium for Global Energy Future, Washington University in St. Louis. “Coastline loss and the socio-environmental impact of displaced communities: Correlating environmental catalysts for shoreline change with human response in Nias, Indonesia.” w/ Dr. Patrick Daly (Asia Research Institute, Singapore).
- 8/2010 Invited Conference, Ordos, Inner Mongolia: *The Ordos Bronzes and the Early East-West Cultural Exchanges through Eurasian Steppe: “Domesticates as exotica through the Inner Asian Mountain Corridor: Bronze Age domesticated grains from Begash, Kazakhstan”* &

- “Plants and Pastoralists: a Case Study from the Bronze Age Site of Begash, Kazakhstan” (w/ Robert Spengler).
- 12/2009 American Anthropological Association (AAA) annual meeting: Washington DC. “Kyrgyzstan: The ‘Home of Santa Claus’ (Heritage and National Identity in contemporary Kyrgyzstan)”
- 4/2009 Society for American Archaeology (SAA) annual meeting: Atlanta. “Early Bronze Age Pastoralism and the Inner Asian Mountain Corridor”
- 2008 Society for American Archaeology (SAA) annual meeting: Vancouver, Canada. Session organizer: “Nomads Anew: New studies and paradigm shifts in world pastoralism”. Paper Title: “Nomads and the long duree - durability and variation in nomadic landscapes.”
- 2007 Computer Applications in Archaeology (CAA) Annual meeting, Berlin Germany. Paper title: “Vegetation Indexes and Paleo-landcover reconstruction of the Eurasian Steppe Zone c. 4000 BP.”
- 2006 University of Barcelona International Symposium: *Silk Roads in the Digital Era*. Paper Title: “Digital Exploration and Archaeological Documentation in Eastern Kazakhstan.”
- 2006 University of Pittsburg Invited Symposium: *New Research Directions in Eurasian Steppe Archeology: The Emergence of Complex Societies in the Third To First Millennia BCE*. Paper Title: “Differentiated Political Landscapes and Non-uniform Complexity in Bronze Age Steppe Archaeology.”
- 2005 The Second University of Chicago Eurasian Archaeology Conference. Paper Title: “Method and Theory in the Variation of Bronze Age Eurasian Landscapes: From the Whole to its Parts and Back Again.”
- 2005 Society for American Archaeology (SAA) annual meeting, Salt Lake City. Paper Title: “Bronze Age Networks of Interaction and Questions of Exogeny.”
- 2004 Society for American Archaeology (SAA) annual meeting, Montreal, Canada. Paper Title: “Shared Traditions, Shared Objects: Trade and Social Relations in Pastoral and Maritime Eurasia” (w/ A. Bauer) and “Less-Centralized States and Their Autonomous Segments: Territory, Mobility, Migration and Control in Two Archaic States” (w/ P. Goldstein).
- 2003 Society for American Archaeology (SAA) annual meeting, Milwaukee, USA. Paper Title: “A Practical Reconstruction of Bronze Age Nomadism in the Upland Steppes of Dzhungaria.”
- 2003 UC Berkeley Symposium *Rocks and Hard Places: Society and the Environment in Central Asia*. Paper Title: “Prehistoric Landscapes of Communication: Reconstructing Social and Economic Orbits of Mountain Pastoralists in the Dzhungar Mountains.”
- 2002 The University of Chicago Eurasian Archaeology Conference: *Beyond the Steppe and the Sown: Integrating Local and Global Visions*. Paper Title: “The Dzhungar Mountains Archaeology Project.” *in absentia*
- 2001 A. Kh. Margulan Conference of History and Archaeology, Almaty Kazakhstan Paper Title: “Archaeological Survey and Landscape Studies on the Island of Jerba, Tunisia From Antiquity to the Present Day.” *in Russian*
- 2000 Symposium for Late Prehistoric Exploitation of the Eurasian Steppe, Cambridge University. Paper Title: “Bronze Age Exploitation and Political Dynamics of the Eastern Steppe Zone.”

- 1999 European Association of Archaeologists (EAA) annual congress, Bournemouth, England. Session Organizer and Chair “Rock-Art and Views of the World”; and “Interpretive Archaeology and Rock-Art.”
- 1999 Society for American Archaeology (SAA) annual meeting, Chicago, USA. Paper title: “Two Times for Valcamonica: Temporal Representations in Chalcolithic Alpine Stele.”
- 1998 The XX Nordic Congress of Archaeology, Umea, Sweden. Paper title: “The Finnish/Russian Border Archaeology Project- 1998.” *in absentia*
- 1996 International Union of Proto-historic and Prehistoric Sciences, Forli, Italy. Paper title: “GIS in Coastal Finland; Where Altitude is a Function of Time.” *in absentia*
- 1996 CAA (Computer Applications in Archaeology) International Conference, Iasi, Romania. Paper title: “The GIS of Early Åland: Spatial Analysis Applying the Arc/Info Method in an Archipelago in South Western Finland.”

COURSES TAUGHT (at Washington University in St. Louis, unless indicated)

- Anthropology 190, Introduction to Archaeology
- Anthropology 312, Ancient Civilizations of the Old World
- Anthropology 374/574, Social Landscapes in World View
- Anthropology 305, Nomadic Strategies and Extreme Ecologies
- Anthropology 480, Advanced Modeling and Simulation in Anthropological GIS and Spatial Analysis
- Anthropology 580, Theory and Method in Landscape Archaeology
- Anthropology 321, Nomads, and the Instability of the Modern World (University of Pennsylvania, 2002)

GRADUATE STUDENT ADVISEES

1. Robert Spengler (2006-2013) – PhD, 2013 (Director of Paleobotany Laboratory, Max Plank Institute, Jena Germany)
2. Paula Doumani (2007-2014) – PhD, 2014 (Assistant Professor, Nazerbaev University)
3. Lynne Rouse (2007-2015) – PhD, 2015 (Humboldt Post-doctoral Fellow 2017-18, German Archaeological Institute, Berlin)
4. Yuqi Li (2011-2017) – PhD, 2017
5. Elissa Bullion (2012 – 2017) – PhD, 2017 Volkswagen Post-doctoral Fellow, Max Plank Institute, Jena, Germany)
6. Ann Merkle (2016-Present)
7. Chen Xinzhou (2017-Present)

UNDERGRADUATE HONORS/RESEARCH SUPERVISION

1. Emily Coco (2017) Spatial Analysis of Debris from Mound 34 Copper Workshop (Cahokia)
2. Elena Wigodner (2014) “Life at Vindolania in the Late Roman Empire”

3. Victor Roy (2010) “On Nomadic Pastoralism: An Analysis of the Forces behind Institutional Change” (with Dept. of Economics)
4. Caroline Boeke (2008) “Infant breast-feeding in areas of high HIV prevalence”
5. Taylor Hermes (2007) Senior Research Capstone project: “Bronze Age Steppe Dynamics and Stable Strontium Isotopes.”
6. Blair Roberts (2007) “The Sea Wall of Remmonisi”
7. Chelsea Nolan (2007) “Virtual Pluralities: Cultural Pluralism in a Massively Multiplayer Online Role-Playing Game”

INTRAMURAL SERVICE (WASHINGTON UNIVERSITY IN ST. LOUIS)

- University Library Committee, elected 2017
- Director of Graduate Studies, Department of Anthropology 2016-Present
- Committee for Affirmative Action Monitoring (2013-2016)
- Program Advisor, Eurasian Studies Concentration, International & Area Studies
- Graduate Studies Committee, Department of Anthropology, (2009-2014)
- Bennett Award Review Committee, Department of Anthropology (2010)
- Website Committee, Department of Anthropology (2009-2010)
- Invited Panelist: Assistant Professors Forum, “Assistant Professor Years: What to Expect When” (December 2009)
- Invited Keynote Presentation: Washington University in St. Louis, 2007 Metropolitan St. Louis Grants Conference, “*Decoding Eurasian Nomadic Networks: Integrating Social and Scientific Approaches*” (January 2007)
- University GIS Committee (2005-Present)

SELECTED MEDIA COVERAGE

- 03/16/2017 *The Times of London*, “Computer model rewrites history of the Silk Road” by Mark Bridge
- 03/08/2017 *International Business Times*, Science Section “Silk Road was shaped by nomads and their herds 4,000 years ago” by Lea Surugue
- 03/08/2017 *Business Insider*, “New research reveals secrets of how the ancient trade routes of the Silk Road were formed,” by Kevin Loria
- 02/13/2015 *Science* “Who are the Tibetans” by J. Qiu
- 04/07/2014 *New York Times*, Science Section “Before the Silk Road, the Grain Road” by Sindya N. Bhanoo
- 05/2012 *Archaeology Magazine* “Rethinking the Thundering Hordes” by Andrew Lawler
- 08/08/2007 *New York Times*, International Section “Ancient Nomads Offer Insights to Modern Crises” by Ilan Greenberg