

## CURRICULUM VITAE

### XINYI LIU

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#### APPOINTMENTS

- 2020-present Associate Professor, Department of Anthropology, Washington University in St. Louis  
2014-2020 Assistant Professor, Department of Anthropology, Washington University in St. Louis  
2014-present Director, Laboratory for the Analysis of Early Food-webs (LAEF), Washington University in St. Louis  
2010-2014 Postdoctoral Research Associate (European Research Council), McDonald Institute for Archaeological Research, University of Cambridge  
2009-2013 Research Fellow, Darwin College, University of Cambridge

#### EDUCATION

- 2005-2010 Ph.D. (*Cantab*), Department of Archaeology, University of Cambridge  
2004-2005 Visiting Research Student (Mellon Foundation Research Fellow), Needham Research Institute, Cambridge  
2002-2005 Postgraduate Study (Archaeological Sciences), Laboratory for Archaeometry and Archaeological Science, University of Science and Technology of China  
1997-2001 BSc (Engineering Science), Beijing Institute of Light Industry

#### GRANTS AND RESEARCH DEVELOPMENT

- 2022-present PI (Co-PI: Melissa Ritchey), NSF (DDIA), *Cultivation Strategies in Pastoral Landscapes* (\$27,127).  
2021-present PI (Co-PI: Yufeng Sun), NSF (DDIA), *Agricultural Labor Organizations and Management* (\$14,490).  
2022-present Co-PI (with Richard Staff), NERC (Natural Environment Research Council, UK), *Tracing the Water Management Practices Applied to Eastern Expansion of Wheat and Barley in Prehistory* (\$38,300).  
2018-2022 PI, NSF (Archaeology Senior Project), *The origin and spread of broomcorn and foxtail millet* (\$312,500).  
2020-2022 PI (Co-PI Zhengwei Zhang), NSF (DDIA), *Subsistence Adaptation in a High Altitude* (\$28,316).  
2018-2019 PI, LEC (Living Earth Collaborative, Washington University), *Integrating stable isotopes and DNA metabarcoding of cave guano to*

- develop a unique paleoenvironmental archive for the humid tropics* (\$29,100).
- 2018-2019 PI, InCEES (International Center for Advanced Renewable Energy and Sustainability, Washington University), *Stable isotope composition of cave guano: A unique paleoenvironmental archive for the humid tropics* (\$40,000).
- 2017-2021 Academic Collaborator (PIs Fahu Chen, Chinese Academy of Sciences and Martin Jones, University of Cambridge), NSFC (National Science Foundation of China – International Collaborative Project), *Study on Prehistoric Human Adaptation to High-elevation and Low Oxygen Environment in Northern Tibetan Plateau* (\$475,500; no direct allocation; no support in-kind).
- 2016-2017 PI, InCEES (International Center for Advanced Renewable Energy and Sustainability, Washington University), *Compound specific isotope analysis on archaeological human and animal remains from north China* (\$40,000).
- 2015-2016 PI, I-CARES (International Center for Advanced Renewable Energy and Sustainability, Washington University), *Lost Crops of Africa: Quantifying the natural variability in millet carbon isotope values* (\$35,000).
- 2010-2015 PDRA and Investigatory Partner (PI, Martin Jones), ERC (European Research Council Advanced Project), *Food Globalisation in Prehistory* (€2,000,000).
- 2011-2013 PI, DM McDonald Grants and Award Funds, University of Cambridge, *Isotopic analysis of individual amino acids of bone collagen from Xinglonggou, China* (£5,000).
- 2009-2013 PI, Darwin College Research Grant, University of Cambridge (£1,500).
- 2007-2008 PI, Wenner-Gren Foundation Dissertation Fieldwork Grant, *The origins and early spread of broomcorn millet* (\$10,000).
- 2006-2007 PI, NERC (United Kingdom Natural Environmental Research Council), Graduate Student Fieldwork Grant (£1,500).

#### **PROFESSIONAL SERVICE**

- 2022 – present Committee Member, International Work Group of Paleoethnobotany
- 2022 – present Associate Editor, *Frontiers in Plant Science*.
- 2022 – present Associate Editor, *Frontiers in Environmental Archaeology*.
- 2022 – present Guest Editor, *Agronomy*.
- 2021 - present Topic Associate Editor, *Frontiers in Ecology and Evolution*.
- 2022 - present Member of Editorial Board, *Environmental Archaeology*.
- 2020 - present Member of Editorial Board, *Archaeology of Food and Foodways*.
- 2019 - present Member of Editorial Board, *PLoS One*.
- Reviewer for *Antiquity, International Journal of Osteoarchaeology, Quaternary International, Quaternary Research, Journal of Archaeological Science, Archaeological and Anthropological Science, Archaeological Research in Asia, Archaeometry, PLOS ONE, PNAS, Scientific Reports*.

## PUBLICATIONS

### Peer-reviewed Journal Articles:

- Li, H., Y. Sun, Y. Yang, Y. Cui, L. Ren, H. Li, G. Chen, P. Vaiglova, G. Dong\* and **X. Liu\***, 2022. Distinct water and soil management by first wheat and barley cultivators in north China. *Antiquity*, first available online: <https://doi.org/10.15184/aqy.2022.138>.
- Zhang, Z., H. Xu, S. Wangdue, X. Gao, H. Lu, **X. Liu** and F. Marshall, 2022. High lamb natural mortality versus specialized culling at Bangga on the southern Tibetan Plateau 3000 BP. *International Journal of Osteoarchaeology*, DOI: 10.1002/oa.3167.
- Reid, R.E.B., J.T. Waples, D.A. Jensen, C.E. Edwards and **X. Liu**, 2022. Climate and vegetation and their impact on C and N isotope ratios in bat guano. *Frontiers in Ecology and Evolution*, 10: 929220.
- Tian, D., Y. Sun, R.M. Melissa, T. Xi, M. Ren, J. Ma, J. Wang, Z. Zhao, X. Ling\* and **X. Liu\***, 2022. Varying cultivation strategies in eastern Tianshan corresponded to growing pastoral lifeways between 1300 BCE and 300 CE. *Frontiers in Ecology and Evolution*, 10: 966366.
- Ritchey, M. M.\*, Y. Sun, G. Motuzaitė Matuzevičiūtė, S. Shaoda, A. K. Pokharia, M. Spate, L. Tang, J. Song, H. Li, G. Dong, P. Vaiglova, M. Frachetti and **X. Liu\***, 2022. The Wind that Shakes the Barley: the role of eastern Eurasian cuisines and environments on barley grain size. *World Archaeology*, 53(1): 1-18.
- Tang, L., H. Lu, X. Chen, H. Xu, N. Boivin, M. Storozum, F. Yang, S. Li, **X. Liu** and R. N. Spengler III, 2022. Prehistoric agricultural decision making in the western Himalayas: ecological and social variables. *Antiquity*, 96(389): 1214-1231.
- Dal Corso, M., G. Pashkevych, D. Filipović, **X. Liu**, G. Motuzaitė Matuzevičiūtė, A. Stobbe, L. Shatilo, M. Videiko and W. Kirleis, In press. Between cereal agriculture and animal husbandry – Millet in the early economy of the north Pontic region. *Journal of World Prehistory*.
- Vaiglova, P\*, R. E. B. Reid, E. Lightfoot, S. E. Pilaar Birch, H. Wang, G. Chen, S. Li, M. K. Jones and **X. Liu\***, 2021. Localized management of non-indigenous animal domesticates in northwestern China during the Bronze Age. *Scientific Reports*, 11: 15764.
- Berger, E., K. Brunson, B. Kaufman, G-A. Lee, **X. Liu**, P. Sebillaud, M. Storozum, L. Barton, J. Eng, G. Feinman, R. Flad, S. Garvie-Lok, M. Hrivnyak, B. Lander, D. C. Merrett and W. Ye, 2021. Human adaptation to Holocene environments: Perspectives and promise from China. *Journal of Anthropological Archaeology*, 63, 101326.
- Sanborn, L. H., R. E. B. Reid, A. S. Bradley and **X. Liu**, 2021. The effect of water availability on the carbon and nitrogen isotope composition of a C<sub>4</sub> plant (pearl millet, *Pennisetum glabucum*). *Journal of Archaeological Sciences*, 28: 103047.
- Song, J., Y. Gao, L. Tang, Z. Zhang, M. Hayashi Tang, H. Xu, W. Tashi, H. Yuan, L. Li, Y. Li, W. Shargan, **X. Liu\*** and H. Lu\*. 2021. Farming and multi-resource subsistence in the third-second millennium BC eastern Tibet:

- Archaeobotanical evidence from Karuo. *Archaeological and Anthropological Sciences*, 13, 41.
- Lu, H., X. Chen, Z. Zhang, T. Li, X. Lemoine, S. Wangdue, Z. Chen, **X. Liu** and M. D. Frachetti, 2021. Early agropastoral settlement and cultural change in central Tibet in the first millennium BC: Excavations at Bangga. *Antiquity*, 95(382), 955-972.
- Tang, L., H. Lu, J. Song, S. Wangdue, X. Chen, Z. Zhang, **X. Liu**, N. Boivin and R. N. Spengler III, 2021. The transition to a barley-dominant cultivation system in Tibet: First millennium BC archaeobotanical evidence from Bangga. *Journal of Anthropological Archaeology*, 61, 101242.
- Liu, X.**, and R. E. B. Reid, 2020. The prehistoric roots of Chinese cuisines: Mapping staple food systems of China, 6000 BC -220 AD. *PLOS ONE*, 15(11), e0240930.
- Wang, W., Y. Liu, F. Duan, J. Zhang, **X. Liu**, R. E. B. Reid, M. Zhang, W. Dong, Y. Wang, Q. Ruan, W. Li and C.-B. An, 2020. A comprehensive investigation of Bronze Age human dietary strategies from different altitudinal environments in the Inner Asian Mountain Corridor. *Journal of Archaeological Science*. 121, 105201.
- Pokharia, A. K., S. K. Kharakwal, S. Sharma, M. Spate, D. Tripathi, A. P. Dimri, **X. Liu**, B. Thakur, S. K. Basumatary, A. Srivastava, K. S. Mahar and K. P. Singh, 2020. Variable monsoons and human adaptations: Archaeological and palaeoenvironmental records during the last 1400 years in north-western India. *The Holocene*, 30(9), DOI: 10.1177/0959683620919976.
- Zhang, Z., Z. Chen, F. Marshall, H. Lü, X. Lemoine, T. Wangyal, T. Dorje and **X. Liu**, 2019. The importance of hunting of diverse animals at Xiaoenda (5000 - 4000 BP), East Tibet. *Quaternary International*, 529, 38-46.
- Motuzaitė Matuzevičiūtė, G., E. Lightfoot, **X. Liu**, J. Jacob, A. K. Outram, V. F. Zaibert, S. Zakharov and M. K. Jones, 2019. Archaeobotanical investigations at the earliest horse herder site of Botai in Kazakhstan. *Journal of Archaeological and Anthropological Science*, 11(11), 6243-6258.
- Liu, X.**, P.J. Jones, G. Motuzaitė Matuzevičiūtė, H.V. Hunt, D.L. Lister, T. An, N. Przelomska, C.J. Kneale, Z. Zhao & M.K. Jones, 2019. From ecological opportunism to multi-cropping: mapping food globalisation in prehistory. *Quaternary Science Reviews*, 206(15), 21-8.
- Reid, R.E.B., L. Lalk, F. Marshall & **X. Liu**, 2018. Carbon and nitrogen isotope variability in the seeds of two African millet species: *Pennisetum glaucum* and *Eleusine coracana*. *Rapid Communications in Mass Spectrometry*, 32(19), 1693-702.
- Lister, D.L., H. Jones, H.R. Oliveira, C.A. Petrie, **X. Liu**, J. Cockram, C.J. Kneale, O. Kovaleva & M.K. Jones, 2018. Barley heads east: Genetic analyses reveal routes of spread through diverse Eurasian landscapes. *PLOS ONE*, 13(7), e0196652.
- Tian, D., J. Ma, J. Wang, T. Pilgram, Z. Zhao & **X. Liu**, 2017. Cultivation of naked barley by early Iron Age agro-pastoralists in Xinjiang, China. *Environmental Archaeology*, 23(4), 416-25.

- Liu, X.**, D.L. Lister, Z. Zhao, C.A. Petrie, X. Zeng, P.J. Jones, R. Staff, A.K. Pokharia, J. Bates, R.N. Singh, S.A. Weber, G. Motuzaite Matuzeviciute, G. Dong, H. Li, H. Lü, H. Jiang, J. Wang, J. Ma, D. Tian, G. Jin, L. Zhou, X. Wu & M.K. Jones, 2017. Journey to the East: diverse routes and variable flowering times for wheat and barley *en route* to prehistoric China. *PLOS ONE*, 12(11), e0209518.
- Dong, G., Y. Yang, **X. Liu**, H. Li, Y. Cui, H. Wang, G. Chen, J. Dodson & F. Chen, 2017. Prehistoric trans-continental cultural exchange in the Hexi Corridor, northwest China. *The Holocene*, 28(4), 621-8.
- Liu, X.**, Z. Zhao & M.K. Jones, 2017. From people's commune to household responsibility: Ethnoarchaeological perspectives of millet production in prehistoric northeast China. *Archaeological Research in Asia*, 11, 51-7.
- Song, J., H. Lu, Z. Zheng & **X. Liu**, 2017. Archaeobotanical remains from the mid-first millennium AD site of Kaerdong in western Tibet. *Archaeological and Anthropological Sciences*, 10(8), 2015-26.
- Ren, X., X. Lemoine, D. Mo, T.R. Kidder, Y. Guo, Z. Qin & **X. Liu**, 2016. Foothills and intermountain basins: Does China's Fertile Arc have a 'Hilly Flanks'? *Quaternary International*, 426(28), 86-96.
- Liu, X.**, D.L. Lister, Z.-Z. Zhao, R.A. Staff, P.J. Jones, L.-P. Zhou, A.K. Pokharia, C.A. Petrie, A. Pathak, H.-L. Lu, G. Motuzaite Matuzeviciute, J. Bates, T.K. Pilgram & M.J. Jones, 2016. The virtues of small grain size: Potential pathways to a distinguishing feature of Asian wheats. *Quaternary International*, 426(28), 107-9.
- Dong, G., L. Ren, X. Jia, **X. Liu**, S. Dong, H. Li, Z. Wang, Y. Xiao & F. Chen, 2016. Chronology and subsistence strategy of Nuomuhong culture in the Tibetan Plateau. *Quaternary International*, 426(28), 42-9.
- Liu, X.**, R.E.B. Reid, E. Lightfoot, G. Motuzaite Matuzeviciute & M.K. Jones, 2016. Radical change and dietary conservatism: Mixing model estimates of human diets along the Inner Asia and China's mountain corridors. *The Holocene*, 26(10), 1556-65.
- Jones, M.K., H. Harriet, C.J. Kneale, E. Lightfoot, D. Lister, **X. Liu** & G. Motuzaite Matuzeviciute, 2016. Food Globalisation in Prehistory: the agrarian foundation of an interconnected continent. *Journal of the British Academy*, 4, 73-87.
- Dong, G., D. Zhang, **X. Liu\***, F. Liu, F. Chen and M. Jones. 2015. Response to comment on "Agriculture facilitated permanent human occupation of the Tibetan Plateau after 3600 B.P.". *Science* 348 (6237), 872.
- Cui, Y., G. Dong, H. Li, T. An, **X. Liu**, J. Wang, H. Wang, X. Ren, X. Li and F. Chen. 2015. Early ceramic trade in Gansu and Qinghai regions, northwest China: A comparative elemental analysis on sherds of Majiayao culture, Yangshao culture and Qijia culture. *Journal of Archaeological Science: Reports* 3, 65-72.
- Motuzaite Matuzeviciute, G., E. Lightfoot, T. C. O'Connell, D. Voyakin, **X. Liu**, S. Svyatko, E. Usmanova and M. K. Jones. 2015. The extent of cereal cultivation among the Bronze Age to Turkic period societies of

- Kazakhstan determined using stable isotope analysis of bone collagen. *Journal of Archaeological Science* 59, 23-34.
- Zhang, G., S. Wang, D. K. Ferguson, Y. Yang, **X. Liu** and H. Jiang. 2015. Ancient plant use and palaeoenvironmental analysis at the Gumugou cemetery, Xinjiang, China: Implication from desiccated plant remains. *Archaeological and Anthropological Science* 9 (2), 145-152.
- Chen, F., F. Dong, D. Zhang, **X. Liu**, X. Jia, C. An, M. Ma, Y. Xie, L. Barton, X. Ren, Z. Zhao, X. Wu and M. K. Jones. 2015. Agriculture facilitated permanent human occupation of the Tibetan Plateau after 3600 B.P. *Science* 347 (6219), 248-250.
- Liu, X.**, E. Lightfoot, T. C. O'Connell, H. Wang, S. Li, L. Zhou, Y. Hu, G. Motuzaitė Matuzevičiūtė and M. K. Jones. 2014. From necessity to choice: dietary revolutions in west China in the second millennium BC. *World Archaeology* 46 (5), 661-680.
- Liu, X.** and M. K. Jones. 2014. Food globalisation in prehistory: top down or bottom up? *Antiquity* 88 (341), 956-963.
- Lightfoot, E., G. Motuzaitė Matuzevičiūtė, T. C. O'Connell, I. A. Kukushkin, V. Loman, V. Varfolomeev, **X. Liu** and M. J. Jones. 2014. How 'pastoral' is pastoralism? Dietary diversity in Bronze Age communities in the central Kazakhstan steppes. *Archaeometry* 57 (S1), 232-249.
- Ma, M., G. Dong, **X. Liu**, E. Lightfoot, F. Chen, H. Wang, H. Li and M. K. Jones. 2015. Stable isotope analysis of human and animal remains at the Qijiaping site in middle Gansu, China. *International Journal of Osteoarchaeology* 25 (6), 923-934.
- Lightfoot, E., **X. Liu** and M. K. Jones. 2013. Why move starchy cereals? a review of the isotopic evidence for prehistoric millet consumption across Eurasia. *World Archaeology* 45 (4), 574-623.
- Ma, M., G. Dong, E. Lightfoot, H. Wang, **X. Liu**, X. Jia, K. Zhang and F. Chen. 2014. Stable isotope analysis of human and faunal remains in the western loess plateau, approximately 2000 cal. BC. *Archaeometry* 56 (S1), 237-255.
- Motuzaitė Matuzevičiūtė, G., R. A. Staff, H. V. Hunt, **X. Liu** and M. K. Jones. 2013. The early chronology of broomcorn millet (*Panicum miliaceum*) in Europe. *Antiquity* 87 (338), 1073-1085.
- Liu, X.**, M. K. Jones, Z. Zhao, G. Liu and T. C. O'Connell. 2012. The earliest evidence of millet as a staple crop: New light on Neolithic foodways in North China. *American Journal of Physical Anthropology* 149 (2), 238-290.
- Jones, M. K., H. V. Hunt, E. Lightfoot, D. Lister, **X. Liu** and G. Motuzaitė Matuzevičiūtė. 2011. Food globalization in prehistory. *World Archaeology* 43 (4), 665-75.
- Jones, M. K. and **X. Liu**. 2009. Origins of agriculture in East Asia. *Science* 324 (5928), 730-731.
- Liu, X.**, H. V. Hunt and M. K. Jones. 2009. River valleys and foothills: changing archaeological perceptions of north China's earliest farms. *Antiquity* 83 (319), 82-95.

- Hunt, H. V., M. V. Linden, **X. Liu**, G. Motuzaite Matuzeviciute, S. Colledge and M. K. Jones. 2008. Millets across Eurasia: chronology and context of early records of the genera *Panicum* and *Setaria* from archaeological sites in the Old World. *Vegetation History and Archaeobotany* 17, 5-18.
- Liu, X.** and M. K. Jones. 2008. When archaeology begins: the cultural and political context of Chinese archaeological thought. *Bulletin of History of Archaeology* 18(1), 25-27.
- Liu, X.**, J. Zhu and Y. Yan. 2007. The application of statistical analyses in study of pottery typologies in the Shang period. *Southern Cultural Relics* 63, 66-71. (in Chinese)
- Liu, Y., J. Song and **X. Liu**. 2007. Analyses of bronze casting materials from Zhouyuan. *Journal of Archaeology and Cultural Relics* 4, 94-100. (in Chinese)
- Hu, Y., D. He, **X. Liu**, Y. Dong, C. Wang, M. Gao and Y. Lan. 2006. Elemental analysis of human bones from Xigongqiao, Tengzhou, Shandong. *Chemical Journal of Chinese Universities* 27, 1075-1079. (in Chinese)
- Wen, R., F. Hu, X. Zhao, **X. Liu**, Z. Mao, Z. Chen and C. Wang. 2004. Preliminary analysis of thermal performance of pottery sherds excavated from Xishan. *Journal of University of Science and Technology of China* 34 (5), 643-646. (in Chinese)

*Book Chapters:*

- Shoda, S., S. Bhandari, Y. Sasaki, N. Murakami and **X. Liu**. *in press*. Archaeobotanical study on the charred wheat grains from the Amakashi no oka Toroku site: A Eurasian perspective. *Nabunken Ronso – Papers of Nara National Research Institute for Cultural Properties* 2. Nara: Nara National Research Institute, p. 29-66. (in Japanese)
- Motuzaite Matuzeviciute, G. and **X. Liu**. 2021. Prehistoric agriculture in China: Food globalization in prehistory, in *Oxford Research Encyclopaedia of Environmental Science*. Oxford: Oxford University Press. doi: <https://doi.org/10.1093/acrefore/9780199389414.013.168>
- Liu, X.**, D. Q. Fuller and M. K. Jones, 2019. Early China's agricultures, in *Research on Hongshan Culture (Volume VI)*, eds by Y. Sun et al. Beijing: Publishing House of Cultural Relics, 24-41. (刘歆益，傅稻镰，马丁·琼斯：《早期中国的农业》，见内蒙古红山文化学会，赤峰学院红山文化研究院编著《红山文化研究（第六辑）科技考古专号》，北京：文物出版社，2019年，第24-41页。)
- Liu, X.**, Z. Zhao and G. Liu, 2019. Xinglonggou site, in *Research on Hongshan Culture (Volume VI)*, eds by Y. Sun et al. Beijing: Publishing House of Cultural Relics, 42-54. (刘歆益，赵志军，刘国祥：《中国兴隆沟》，见内蒙古红山文化学会，赤峰学院红山文化研究院编著《红山文化研究

(第六辑) 科技考古专号》, 北京: 文物出版社, 2019年, 第42-55页。)

- Liu, X.** 2019. Route, season and cuisine: The eastern expansions of wheat and barley. In *Afro-Eurasian Archaeobotany*, edited by S. Shoda. Tokyo: Kuba Pro., 68-76. (in Japanese)
- Liu, X., E. Lightfoot & D. Fuller**, 2018. Introduction: Far from the hearth, in *Far from the Hearth: Essays in Honour of Martin K. Jones*, eds. E. Lightfoot, X. Liu & D. Fuller. Cambridge: McDonald Institute Conversations, 1-3.
- Liu, X., G. Motuzaitė Matuzevičiūtė & H.V. Hunt**, 2018. From a fertile idea to a fertile arc: The origins of broomcorn millet 15 years on, in *Far from the Hearth: Essays in Honour of Martin K. Jones*, eds. E. Lightfoot, X. Liu & D.Q. Fuller. Cambridge: McDonald Institute Conversations, 155-64.
- Lightfoot, E., **X. Liu & P.J. Jones**, 2018. A world of C<sub>4</sub> pathways: On the use of  $\delta^{13}\text{C}$  values to identify the consumption of C<sub>4</sub> plants in archaeological record, in *Far from the Hearth: Essays in Honour of Martin K. Jones*, eds. E. Lightfoot, X. Liu & D.Q. Fuller. Cambridge: McDonald Institute Conversations, 165-76.
- Liu, X., E. Margaritis & M.K. Jones**, 2018. From the harvest to the meal in prehistoric China and Greece: A comparative approach to the social context of food, in *Ancient Greece and China Compared*, eds. G. Lloyd, G. Dong & J.J. Zhao. Cambridge: Cambridge University Press, 355-72.
- Liu, X.**, 2016. Stable isotope analysis of human and animal remains from Ganguya and Sanbadongzi, in *Report on the Archaeological Excavation of Ganguya Cemetery*, ed. S. Li. Beijing: Cultural Relics Publishing House, 406-14. (刘歆益: 《干骨崖与三坝洞子出土人和动物骨骼稳定同位素分析》, 见北京大学考古文博学院, 甘肃省文物考古研究所编著《酒泉干骨崖》, 北京: 文物出版社, 2016年, 第406-414页。)
- Liu, X., D. Fuller and M. K. Jones**. 2015. Early agriculture in China. In *The Cambridge World History - Volume II: A world with agriculture, 12,000 BCE-500CE*, edited by G. Barker and C. Goucher. Cambridge: Cambridge University Press, 310-334.
- Liu, X., Z. Zhao and G. Liu**. 2015. Xinglonggou. In *The Cambridge World History, Volume II - A World with Agriculture, 12,000 BCE-500 CE* edited by G. Barker and C. Goucher. Cambridge: Cambridge University Press, 335-352.
- Liu, X. and M. K. Jones**. 2014. Under one roof: people, crops and animals in Neolithic north China. In *Living in the Landscape: Essays in Honour of Graeme Barker*, edited by K. Boyle, R. J. Rabett and C. Hunt. Cambridge: McDonald Institute Monographs, 227-234.

*Edited Book and Special Issues:*



- Lightfoot, E., **X. Liu** and D. Q. Fuller, eds. 2018. [Far from the Hearth: Essays in Honour of Martin K. Jones](#). Cambridge: *McDonald Institute Conversations*.
- Xinyi Liu**, Giedre Motuzaitė Matuzevičiūtė, Shinya Shoda and Petra Vaiglova, eds. 2022/23. Research Topic: [Effects of Novel Environments on Domesticated Species](#). *Frontiers in Ecology and Evolution*.
- Jianping Zhang, Ying Guan and **Xinyi Liu**, eds. 2022/23 Research Topic: [Frontiers in the Study of Ancient Plant Remains](#). *Frontiers in Plant Science*.
- Xinyi Liu** and Giedre Motuzaitė Matuzevičiūtė, eds. 2023. Special Issue: [Millet and Pseudocereals: New Insights into Archaeobotany, Plant Domestication and Global Foodways](#). *Agronomy*.

*Book Reviews and Interviews:*

- Renfrew, C. and **X. Liu**. 2015. Interview with Colin Renfrew. *Southern Cultural Relics* 86, 44-49. (科林·伦福儒，刘歆益：《科林·伦福儒（Colin Renfrew）教授访谈录》，《南方文物》2015年，第86期，第44-49页。)
- Barker, G. and **X. Liu**. 2015. Interview with Graeme Barker. *Southern Cultural Relics* 84, 62-66. (格兰厄姆·巴克，刘歆益：《格兰厄姆·巴克（Graeme Barker）访谈录》，《南方文物》2015年，第84期，第62-66页。)
- Liu, X.** 2014. Book review: Ancient central China - Centres and peripheries along the Yangzi River. *Landscape Archaeology: Journal of Society for Landscape Studies* 35 (1), 83.
- Jones, M. K. and **X. Liu**. 2012. Interview with Martin Jones. *Southern Cultural Relics* 81:20-24. (马丁·琼斯，刘歆益：《马丁·琼斯（Martin Jones）教授访谈录》，《南方文物》2012年，第81期，第20-24页。)
- Liu, X.** 2005. Book review: The Molecular hunt - A brief history of archaeological science. *Chinese Journal for the History of Science and Technology* 26:180-184. (刘歆益：《生物考古学简史 - <分子狩猎：考古学如何唤醒沉睡的过去>》，《中国科学技术史杂志》2005年，第26期，第180-184页。)

*Other Publications (newspaper articles and translated works):*

- Liu, X.** 2019. Food Globalisation in Prehistory. *Oriental History Reviews*, 29 July. (刘歆益：《史前时代的农业全球化》，《东方历史评论》2019年7月29日。)

- Liu, X.** 2017. How wheat and barley were introduced to China? *Intellectuals*, 15 Nov. (刘歆益：《大麦和小麦是如何传入中国的？》，《知识分子》2017年11月15日。)
- Liu, X.** 2017. Cuisine, season and class: how Eurasia became connected? *Oriental History Reviews*, 26 June (刘歆益：《饮食、季节与阶级：欧亚大陆是如何联系起来的？》，《东方历史评论》2017年6月26日。)
- Liu, X.** China's arc' between the East and the West. *People's Daily*, 13 June. (刘歆益：《沟通东西方的“中国弧”》，《人民日报》2017年6月13日。)
- Stargardt, J., translated by **Liu, X.** & Zhuang, Y. 2014. Demand, distance and profit: An Indian Ocean world in the ninth and tenth century. *National Maritime Research*, 8: 87-112. (思鉴著，刘歆益、庄奕杰译：《公元九到十世纪唐与黑衣大食间的印度洋贸易：需求、距离与收益》，《国家航海》2014年，第8期，第87-112页。)
- Wang, C. & **Liu, X.** 2005. On early ceramics in China. *Newspaper of Cultural Relics of China*, 11 Nov. (王昌燧，刘歆益：《中国早期陶器邹议》，《中国文物报》2005年11月11日。)
- Cullen, C., translated by **Liu, X.** 2005. The Needham Research Institute in Cambridge and Science and Civilisation in China. *Chinese Journal for the History of Science and Technology*, 25: 1-10. (古克礼 (Christopher Cullen) 著，刘歆益译：《剑桥的李约瑟研究所和中国的科学与文明》，《中国科学技术史杂志》2005年，第25期，第1-10页。)

## TEACHING

### Washington University

- 2020-present *Culinary Globalization: the first 30,000 years* (300 level, undergraduates)
- 2020-present *Introduction to Scientific Approaches in Archaeology* (400 level, undergraduates and graduates)
- 2016-2017 *Pathways to Domestication* (400 level, graduates and undergraduates).
- 2015-present *Bio-molecular Archaeology – Are you what you eat?* (400 level, graduates and undergraduates).
- 2015-present *Environmental Archaeology* (400 level, graduates and undergraduates).
- 2015-present *Archaeology of China – Food and People*. (Spring semester, 300 level, undergraduates).

### University of Cambridge

- 2012-2014 Lecturer, *Prehistory of China*, in core module: *Chinese History* (Part Ia). Department of East Asian Studies.
- 2012-2014 Lecturer, *Physical Environment and Human Impact*, in core module: *Archaeology in Action* (Part IIb). Department of Archaeology.
- 2010-2013 Lecturer, *Culture and Nature*, in core module: *Archaeological Thought* (Part IIa). Department of Archaeology.
- 2006-2013 Supervisor and instructor, *Introduction to Scientific Approach in Archaeology* (Part IIa, IIb and M.Phil). Department of Archaeology.
- 2006-2007 Supervisor, *The History and Scope of Archaeology: Theory and Practice* (Part IIa and Part IIb). Department of Archaeology.

#### **SCHOLARSHIPS AND AWARDS**

- 2015 Research Award - 'Outstanding Contributions to the Advancement of Knowledge of the Human Past' - Shanghai Archaeology Forum, 14 Dec 2015, Shanghai. (Awarded for the research on '*The origin and spread of broomcorn and foxtail millet*', with Zhijun Zhao and M.K. Jones).
- 2009-2010 Chinese Government Award for Outstanding Students Abroad (Chinese Scholarship Council).
- 2005-2009 Dorothy Hodgkin Postgraduate Award, (DHPA, University of Cambridge, fees and stipends).
- 2005-2008 Cambridge Overseas Trust Scholarship (Kwok Foundation, University of Cambridge, honorarium - having won DHPA).
- 2004-2005 Andrew Mellon Foundation Fellowship, Needham Research Institute, Cambridge.

#### **UNIVERSITY SERVICE**

- 2022-present Director of Graduate Studies, Department of Anthropology.
- 2021/2022 Member of Department Committee of Graduate Studies.
- 2019-2021 Member of Department Committee of Undergraduate Studies.
- 2019-2021 Member of Washington University Fulbright Committee.
- 2019 Member of tenure manual review committee, Department of Anthropology.
- 2018/2019 Chair of archaeology faculty search committee, Department of Anthropology.
- 2017 External member of Earth and Planetary Sciences Faculty Search Committee.
- 2016 Member of archaeology faculty search committee, Department of Anthropology.
- 2016/2017 Faculty advisor of *Simple Syrup* (Student-run food magazine, Washington University).
- 2015/2016 Member of curriculum review committee, Department of Anthropology.

#### **INVITED LECTURES**

- 2022 Understanding Ancient China, Yale University, New Haven.

- 2022 *Food Globalization and Diverse Chinese Origins* (Virtual). Seoul National University, Seoul.
- 2022 *Local Habits and Non-native Taxa: Food Globalization in Prehistory* (Virtual). Jiangsu Normal University, Suzhou.
- 2020 *Cooking, cuisine and grains: The ritualistic aspect of food globalization* (Virtual). Bryant University, Smithfield, RI.
- 2020 *Function or Symbolism? The prehistoric roots of Eurasian cuisines* (Virtual). Zhejiang University, Hangzhou.
- 2019 *The wind that shakes the barley*, invited paper presented at Tang Centre for Early China, Columbia University, New York.
- 2018 *Two Fertile Crescents*, invited paper presented at Chinese Academy of Agricultural Sciences, Beijing.
- 2018 *Runaway world: the agrarian foundation of the Old World prehistory*, invited lecture given in Feng Jihan Lecture Series, Sichuan University, Chengdu, China.
- 2017 *Cuisine, season and class: How Eurasia became connected?* invited paper presented at Guizhou Museum, Guiyang, China.
- 2017 *Food globalization in prehistory*, invited paper presented at Nevada University in Las Vegas.
- 2017 *Between fertile crescents: Trans-Eurasian exchange of cereal crops*, invited paper presented at Bryant University, Smithfield, RI.
- 2016 *Pathways to the eastern expansions of wheat and barley*, paper presented at Institute of Archaeology, University of Oxford.
- 2016 *Mobile crops and conservative cuisines*, invited paper presented at Archaeology Center, Stanford University.
- 2015 *The virtue of small wheat: Pathways to the eastern expansions of wheat cultivation*, paper presented at Shanghai Archaeology Forum, Shanghai.
- 2015 *1984 BC: Was there a Bronze Age world system?* invited paper presented at Department of Anthropology, Harvard University.
- 2014 *Chinese food and the world system in prehistory*, invited paper presented at the public lecture series: *New Worlds of Science: The Heritage of East Asia*, Seattle Art Museum.
- 2013 *What I have eaten this summer: Stone Age food networks*, invited public lecture given at the 'One Way Street' bookshop, Beijing.
- 2013 *Water, soil and seasonality: Topographies of the Old World Agricultures*, invited paper presented at Northwest University, Xi'an.
- 2012 *The arrival of the western food ways: isotopic and archaeobotanical perspectives*, invited paper presented at University of Pittsburgh.
- 2012 *Food globalization in prehistory*. British Museum, London.
- 2011 *Food web, production and consumption: The longue durée of the Neolithic China*, invited paper presented at Institute of Archaeology, University College of London.

**SYMPOSIA ORGANIZER AND SERIES CONVENER**

- 2020 Organizer (with Dr Petra Vaiglova), *The Origin of Eurasian Foodways and Cuisines: Environmental challenges and culinary solutions to food globalization in prehistory*, workshop in the 8<sup>th</sup> McDonnell Academy International Symposium, Washington University in St. Louis.
- 2019 Chair, *From Tangible Things to Intangible Ideas: The context of pan-Eurasian exchange of crops, animals and objects*, SAA (Society of American Archaeology) symposium, Albuquerque.
- 2018 Chair, *Hills, Valleys and Plateaus: Exploring human landscape of the mountainous regions in East and Central Asia*, SAA symposium, Washington DC.
- 2015 Organizer, *Tibetan Plateau and the Bronze Age Globalisation*, a workshop held at Department of Anthropology, Washington University in St. Louis.
- 2015 Chair, *Food Globalisation in Prehistory*, SAA symposium, San Francisco.
- 2014 Co-organizer (with Zhijun Zhao), *Millets as Crops: Past and Future*, an international symposium held at Aohan, Inner Mongolia.
- 2013 Co-Chair (with Christine Hastorf), *Plant Domestication - Morphology, Genetics and Social Context*, SAA forum, Austin.
- 2011-2013 Convener, *Darwin College Humanities and Social Sciences Seminar*, weekly college seminar series, University of Cambridge.
- 2010 Co-organizer (with Martin Jones and Zhijun Zhao), *Ordos Bronze and the Early East-West Cultural Exchanges through the Eurasian Steppe*, an international symposium held at Ordos, China.
- 2008 Co-organizer (with Martin Jones and Graeme Barker), *Rethinking Agricultural Origins in Western China*, an international symposium held at Jiuquan, China.
- 2009-2010 Convenor, *George Pitt-River Seminar for Archaeological Science*, Department of Archaeology, University of Cambridge.
- 2005-2006 Co-ordinator, *Asian Archaeology Group*, Department of Archaeology, University of Cambridge.

#### SELECTED PUBLIC OUTREACH

Science (cover page feature article):

<https://science.sciencemag.org/content/347/6223/708>

World Economic Forum:

<https://www.weforum.org/agenda/2019/02/map-shows-how-grains-took-over-the-world/>

Archaeology:

<https://www.archaeology.org/issues/423-2105/digs/9613-digs-china-food-dispersal>

Mashable:

<https://mashable.com/article/beer-production-climate-change-barley/#u1fXxhvXmiqt>

Current World Archaeology (Upfront News; Magazine 87, p. 7):

<https://www.world-archaeology.com/issues/issue-87-issues/cwa-87-now-sale/>

BBC China:

[http://www.bbc.co.uk/china/lifeintheuk/story/2009/05/090507\\_chinese\\_millet.shtml](http://www.bbc.co.uk/china/lifeintheuk/story/2009/05/090507_chinese_millet.shtml)

People's Daily:

<http://culture.people.com.cn/GB/87423/12622519.html>

**POSTDOCTORAL RESEARCHER MENTORED**

2019 – 2022 Dr Petra Vaiglova (DPhil, Oxford)  
2015 - 2019 Dr Rachel B. Reid (PhD, UC Santa Barbara)

**DISSERTATION COMMITTEE CHAIR/CO-CHAIR**

2019 - present Melissa Ritchey  
2017 - present Yufeng Sun  
2016 - 2022 Zhengwei Zhang  
2015 - 2022 Mana Hayashi Tang  
2014 - 2021 Ximena Lemoine  
2014 - 2021 Yi-Ling Lin

**DISSERTATION COMMITTEE MEMBER/VIVA EXAMINER**

2020 Kelsey Nordine, Mica Jones  
2019 Juan Carlos Melendez  
2018 Yuqi Li, Ting An (Viva examiner, University of Cambridge)  
2017 Zhen Qin, Michael Storozum  
2016 Natalie Mueller  
2015 Abigail Stone

**RESEARCH VISITORS**

2022-2023. Ying Guan, Institute of Vertebrate Paleontology and  
Paleoanthropology VPP, CAS, Beijing  
2019 Elina Ananyevskaya, Vilnius University, Vilnius, Lithuania  
2018-2019 Wei Wang, Lanzhou University, Lanzhou  
2017-2018 Rui Liu, Peking University, Beijing  
2017-2018 Haiming Li, Lanzhou University, Lanzhou  
2017 Prof. Zhijun Zhao, Institute of Archaeology, CASS, Beijing  
2016-2017 Prof. Lan Li, Sichuan University, Chengdu  
2015-2016 Duo Tian, Northwest University, Xi'an  
2015-2016 Yuanyuan Gao, Sichuan University, Chengdu

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