

CURRICULUM VITAE

XINYI LIU

Department of Anthropology
Washington University in St. Louis
One Brookings Drive, Box 1114
St. Louis, MO 63130, USA

Tel: +1 314-935-5252
Fax: +1 314-696-1222
liuxinyi@wustl.edu

PROFESSIONAL POSITIONS

2025-present Professor, Department of Anthropology, Washington University
2024-present Associate Chair, Department of Anthropology, Washington University
2020-2025 Associate Professor of Anthropology, Washington University
2014-2020 Assistant Professor of Anthropology, Washington University
2010-2014 Postdoctoral Research Associate (European Research Council funded), McDonald Institute for Archaeological Research, University of Cambridge
2009-2013 Research Fellow, Darwin College, University of Cambridge

EDUCATION AND TRAINING

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

GRANTS AND RESEARCH DEVELOPMENT

2025 *under review* PI (co-PIs: WashU Lora Iannotti, Michael Frachetti, Bo Li, Columbia University Ruth DeFries and UN-FAO Patrizia Fracassi), Taylor Geospatial Institution (TGI Innovation for Food Security Challenge), *GeoAI for Climate- and Culture-Smart Millets: Deep-Time Insights, Future Resilience* (\$550,000)
2024-present PI, NSF (Archaeology Senior Project), *Pioneers of Tans-Eurasian Exchange: Tracing the spread of irrigation and cooking techniques in prehistory, 3000-1000 BC* (\$288,829).
2024-present PI (with Ken Olsen, Tao Ju, Lora Iannotti), Here & Next Ignite Grant (Washington University), *Millet domestication and its future potential in food security* ((\$49,585).
2023-2024 PI (with Ken Olsen), SPEED (Arts & Sciences, Washington University), *Genomic, ethnobotanical, and archaeological investigation and conservation of foxtail millet in Nepal and Tibet* (\$37,650).

- 2022-2025 PI (Co-PI: Melissa Ritchey), NSF (DDRIG), *Cultivation Strategies in Pastoral Landscapes* (\$27,127).
- 2022-2023 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).
- 2021-2023 PI (Co-PI: Yufeng Sun), NSF (DDRIG), *Agricultural Labor Organizations and Management* (\$14,490).
- 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 (DDRIG), *Subsistence Adaptation in a High Altitude* (\$28,316).
- 2018-2019 PI, 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, 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).
- 2018-2019 Supervisor (PI: Mana Hayashi Tang), Wenner-Gren Dissertation Fieldwork Grant. *Late Pleistocene starchy plant uses in northern China: A Nihewan case study* (\$19,813).
- 2017-2018 Supervisor (PI: Ximena Leomoine), Wenner-Gren Dissertation Fieldwork Grant. *Pigs in Neolithic north China: Domestication in the context of diversity and regional expression* (\$19,660).
- 2017-2021 Senior 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).
- 2016-2017 PI, 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, 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 Senior Investigatory Partner (PI, Martin Jones), European Research Council Advanced Project, *Food Globalization 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).

AWARD AND FELLOWSHIPS

- 2023-24 The Li Foundation of New York Award (to honour the memory of Dr Lu Gwei-djen), Needham Research Institute, Cambridge.
- 2015 Research Award for 'Outstanding Contributions to the Advancement of Knowledge of the Human Past', *Shanghai Archaeology Forum* (project: '*The origin and spread of broomcorn and foxtail millet*', with Zhijun Zhao and M.K. Jones).

PROFESSIONAL SERVICE

- 2022 - present Steering Committee Member, *International Work Group of Paleoethnobotany*
- 2017 - present Member of Advisory Committee, *Shanghai Archaeology Forum*
- 2023 - present Associate Editor, *Archaeological Research in Asia*
- 2022 - present Associate Editor, *Environmental Archaeology*
- 2023 - 2024 Guest Editor, *PNAS*
- 2022 - 2023 Guest Editor, *Frontiers in Ecology and Evolution*
- 2022 - 2023 Guest Editor, *Frontiers in Plant Science*

Member or past member of editorial board for *PLOS ONE*, *Frontiers in Environmental Archaeology*, and *Archaeology of Food and Foodways*.

Reviewer for *Science*, *Nature*, *PNAS*, *Nature Communications*, *Science Advances*, *Scientific Reports*, *PLOS ONE*, *Antiquity*, *Journal of Archaeological Science*, *Archaeometry*, *International Journal of Osteoarchaeology*, *Archaeological Research in Asia*, *Archaeological and Anthropological Science*, *Quaternary International*, *Science China*, *Quaternary Research*.

Grant Reviewer for *National Science Foundation*, *European Research Council*, *Croatian Science Foundation*.

PUBLICATIONS

Monograph:

X. Liu, under contract. *Globalization in Deep History*. Cambridge: Cambridge University Press.

Peer-reviewed Journal Articles (indicates corr. authorship where Liu is not the first):*
 Zhou, X., H. Shen, Z. Li, R. N. Spengler, G. Chen, H. Rao, M. Khasannov, K. Zhao, Y. Wu, J. Ma, J. Wang, A. A. Askarov, F. Maksudov, Q. Xia, **X. Liu*** and X. Li, *Under Review* (minor revision). Silk worm cultivation predating the silk road in southern Central Asia (2000 BCE). *Science Advances*.

- Chen, X., Z. Sun, S. Zhang, G-A. Lee, H. Nasu, F. Zhang, H. Cai, X. Liu, J. Gao, C. Zhu, J. Lang, Z. Zhao and **X. Liu***, 2025. The discovery of adzuki bean (*V. angularis*) in Eastern China during the 9th millennium BP and its domestication in East Asia. *Proceedings of the National Academy of Sciences of the USA*, 122(39): e2510835122.
- Gao, Y., C. Hu, J. Fu, G. Pan, Q. He and **X. Liu**, 2025. Archaeobotanical analysis of a mountainous metallurgical settlement: Evidence from the Jicha site, Yunnan Province, Southwest China. *Journal of Archaeological Science: Reports*, 67: 105394.
- Li, H., X. Jia, G. Bai, Z. Wang, S. Dong, D. Zhao, Z. Hu, M. M. Ritchey, Z. Zhang and **X. Liu**, 2025. The cropping systems reflected by weeds in the Eastern Jianghuai region during the late Zhou period. *Archaeological and Anthropological Sciences*, 17: 180.
- Liu, L., **X. Liu**, C. Yu and Y. Miao, 2025. Preserved 800-year-old liquid beer in a Jin Dynasty vase: Evidence of malted sorghum-wheat fermentation in Xi'an, China. *Heritage*, 8: 426.
- Sun, Y., X. Jia, R. E. B. Reid, Y. Sun and **X. Liu***, 2025. Millet cultivation strategies and changing agropastoral economies in ancient Chifeng, northeast China, 4000-1800 BP. *Archaeological and Anthropological Sciences*, 17: 145.
- Chen, X., H. Xu, **X. Liu** and H. Lü, 2025. Exploratory surveys of prehistoric highland herding facilities in Tibet. *Antiquity*, 99(406), 973-985.
- Liu, X.** and M. K. Jones, 2024. Needs for a conceptual bridge between biological domestication and early food globalization. *Proceedings of the National Academy of Sciences of the USA*, 121(16), e2219055121.
- Sun, Y., M. Ritchey, H. Zhong, L. Tang, E. Sergusheva, T. Shi, J. Song, H. Li, G. Dong and **X. Liu***, 2024. Grain size variations of millets and cooking techniques across Asia between the late fourth and first millennium BCE. *Antiquity*, 98(398), 401-416.
- Zhang, Z., H. Lu, S. Wangdue, X. Chen, L. Tang, H. Xu, J. Song, P. Vaiglova and **X. Liu***, 2024, Sequential isotope analyses of enamel bioapatite on the Tibetan Plateau reveal sheep and goat provisioning at high elevation environment, 3000-2200 BP. *Antiquity*, 98 (401), 1219-1235.
- Hunt, H. V., H. Jiang, **X. Liu**, D. L. Lister, A. Yidilisi, W. Li, C. Wang, M. K. Jones, 2024. Did crops expand in tandem with culinary practices from their region of origin? Evidence from ancient DNA and material culture. *Antiquity*, 98(397), 12-29.
- Ritchey, M. *, L. Tang, P. Vaiglova, H. Lu, Y. Sun, M. D. Frachetti and **X. Liu***, 2024, Into thin air: Prehistoric intensive crop management in high altitude western Tibet. *Frontiers in Environmental Archaeology*, DOI: 10.3389/fearc.2024.1398209.
- Styring, A., P. Vaiglova, A. Bogaard, M. J. Church, D. R. Gröcke, M. Larsson, **X. Liu**, E. Stroud, P. Szpak and M. P. Wallace, 2024, Recommendations for stable isotope analysis of charred archaeological crop remains. *Frontiers in Environmental Archaeology*, DOI: 10.3389/fearc.2024.1470375.

- An, T., Z. Zhang, Y. Zheng, Y. Peng, J. Wang, L. Jiang, **X. Liu** and M. K. Jones, 2024. MicroCT analysis reveals insights into the beginning of rice domestication in the Lower Yangtze during the 10th millennium BP. *The Holocene*, 34(11), 1733-1740.
- Huo, J., X. Guan, X. Xia, Y. Lyu, X. Liu, Y. Mazei, P Xie, F. Chang, X. Zhang, J. Chen, X. Li, F. Zhang, L. Jin, X. Luo, M. S. Sinding, X. Sun, A. Achilli, N. R. Migliore, D. Zhang, J. A. Lenstra, J. Han, Q. Fu, **X. Liu**, X. Zhang, N. Chen, C. Lei and H. Zhang, 2024. Evolution and legacy of East Asian aurochs. *Science Bulletin*, 69, 3425-3433.
- Chen, S., L. Ren, Y. Gao, G. Dong, G. Sheng, J. Han, **X. Liu**, N. Chen and F. Chen, 2024. Evidence of hybridization of cattle and aurochs on the Tibetan Plateau ~3750 years ago. *Science Bulletin*, 69(18), 2825-2828.
- Liu, X.** and M. K. Jones, 2024. Expansive crop movement and its consequences for human economy and health: the prehistoric spread of north Chinese millets to Southeast Asia. *Science Bulletin*, 69, 856-858.
- Chen, X., H. Lü, **X. Liu** and M. D. Frachetti, 2024. Geospatial modelling of farmer-herder interactions maps cultural *geography* of Bronze and Iron Age Tibet, 3600-2200 BP. *Scientific Reports*, 14, 2010.
- Chen, N. Z. Zhang, J. Hou, J. Chen, X. Gao, L. Tang, S. Wangdue, X. Zhang, M-H. S. Sinding, X. Liu, J. Han, H. Lü, C. Lei, F. Marshall and **X. Liu***, 2023. Evidence for early domestic yak, taurine cattle, and their hybrids on the Tibetan Plateau. *Science Advances*, 9, eadi6857.
- Liu, X.** and M. K. Jones (translated by Sun, X. and Y. You), 2023. Under One Roof: People, crops and animals in Neolithic north China. *Northern Ethnoarchaeology*, 15, 379-391 (刘歆益，马丁·琼斯 著，孙鑫蕊，尤悦译：《同一屋檐下：中国北方新石器时代的人、粮食与动物》，《北方民族考古》，2023年，15卷，379-391页)。
- Endo, E., S. Shoda, M. Frachetti, Z. Kaliyeva, G. Kiyasbek, A. Zhuniskhanov, **X. Liu** and P. Dupuy, 2023. Pottery impressions reveal earlier westward dispersal of foxtail millet in Inner Asian Mountain Corridor. *Agronomy*, 13, 1706.
- Liu, X.** 2023. Comment on "A posthumanist approach to the origins of rice agriculture in southern China" by Jiajing Wang. *Current Anthropology*, 64(3), 255-256.
- Zhang, J., Y. Guan and **X. Liu**, 2023. Editorial: Frontiers in the study of ancient plant remains. *Frontiers in Plant Science*, 14, 1177435.
- 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*, 96(390), 1478-1494.
- 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*, 33, 6-15.

- 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. Motuzaite Matuzeviciute, 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. Motuzaite Matuzeviciute, A. Stobbe, L. Shatilo, M. Videiko and W. Kirleis, 2022. Between cereal agriculture and animal husbandry – Millet in the early economy of the north Pontic region. *Journal of World Prehistory*, 35, 321-374.
- 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 C₄ 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.

- Zhang, Z., Z. Chen, T. Wangyal, T. Dorje, H. Xu, X. Lemoine, H. Lü and **X. Liu** (translated and revised from Zhang et al., 2019 by Z. Zhang), 2022. Hunting strategies in the Neolithic Eastern Tibetan Plateau: Zooarchaeological analysis of fauna remains recovered from Xiaoenda during 2012 excavation. *Tibetan Cultural Relics*, issue 4, 119-170. (张正为、陈祖军、扎西旺加、泽巴多吉、徐海伦、刘梦凝、吕红亮、刘歆益：《青藏高原东部新石器时代的狩猎生业——西藏昌都小恩达遗址 2012 年出土动物遗存分析》，《西藏文物考古研究》，2022 年，第 4 辑，119 – 170 页。)
- 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), 1332-1344.
- 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. Zaubert, 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.

- Motuzaitė 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 Matuzeviciute 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 Matuzeviciute, 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 Matuzeviciute, 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.
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- Jones, M. K. and **X. Liu**. 2009. Origins of agriculture in East Asia. *Science* 324 (5928), 730-731.

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- 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.
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Book Chapters:

- Shoda, S., S. Bhandari, Y. Sasaki, N. Murakami and **X. Liu**. 2022. 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:
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- Liu, X.,** D. Q. Fuller and M. K. Jones (translated by Tian, X. and Y. Sun), 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 著, 田小冬, 孙宇峰译:《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 (translated by Tian, X. and Y. Sun), 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 著, 田小冬, 孙宇峰译:《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. Motuzaite Matuzeviciute & 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 C₄ pathways: On the use of $\delta^{13}\text{C}$ values to identify the consumption of C₄ 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 Motuzaite Matuzeviciute, 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 Motuzaite Matuzeviciute, 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，86卷，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，84卷，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，81卷，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，26卷，180-184页。)

Other Publications (newspaper articles and translated works):

Liu, X. 2025. How humans invented 'time'. *Rethinking History*, 26 October. (刘歆益：《人类如何‘发明’时间》，《历史学人》2025年10月26日。)

Liu, X. 2025. Farming expansions and major language families in the world. *Rethinking History*, 21 September. (刘歆益：《争议与假说：农业与世界主要语言的扩散》，《历史学人》2025年9月21日。)

Liu, X. 2019. Food Globalisation in Prehistory. *Eastern 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? *Eastern 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辑，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，25卷，第1-10页。）

TEACHING

Washington University

- 2024-present *Public Scholarship and Multidisciplinary Approaches in Archaeology* (5000 level, graduate students)
- 2023-present *New Advances in Archaeology* (4000 level undergraduates and graduates)
- 2020-present *Culinary Globalization: the first 30,000 years* (3000 level, undergraduates)
- 2020-present *Introduction to Scientific Approaches in Archaeology* (4000 level, undergraduates and graduates)
- 2015-present *Bio-molecular Archaeology – Are you what you eat?* (4000 level, graduates and undergraduates).
- 2015-present *Environmental Archaeology* (4000 level, graduates and undergraduates).
- 2015-present *Archaeology of China – Food and People.* (3000 level, undergraduates).
- 2016-2017 *Pathways to Domestication* (4000 level, graduates and 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.

GRADUATE SCHOLARSHIPS

- 2009 Chinese Scholarship Council Award for Outstanding Students Abroad.
- 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

2025-present	Vice Chair, University International Travel Oversight Committee.
2024-present	Associate Chair, Department of Anthropology.
2024-present	Member of A&S Graduate Advisory Council.
2022-2024	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 <i>Simple Syrup</i> (Student-run food magazine, Washington University).
2015/2016	Member of curriculum review committee, Department of Anthropology.

INVITED LECTURES

2025	<i>Globalization in Deep History</i> . Sociology, Peking University.
2024	<i>Cultivation Strategies in Pastoral Landscapes</i> , invited paper at the workshop: <i>Economic Issues in Ancient Chinese Prehistory and History</i> . Ludwig Maximilian University of Munich, Munich.
2024	<i>Understanding Ancient China</i> . Needham Research Institute, Cambridge.
2024	<i>Understanding Ancient China</i> . Institute of Archaeology, UCL, London.
2024	Invited participant of the workshop <i>Investigating Human Dimension of Climate Dynamics: Bridging Archaeology, History, Common Era Paleoclimate, Earlier Paleoclimate</i> . Tang Center for Early China, Columbia University.
2023	<i>Effect of Novel Environments on Domesticated Species</i> , keynote speech at <i>Kiel Conference 2023: Scales of Social, Environmental & Cultural Change in Past Societies</i> . University of Kiel.
2023	Deep-seated Culinary Distinctions and Food Globalization in Prehistory. Shanghai Archaeology Forum.
2023	<i>Farming/Language Dispersal Hypothesis Revisited</i> . Zhejiang University.
2023	<i>Cultural Pluralism in Domestication: A Long View</i> (virtual). Shangdong University.
2022	<i>Understanding Ancient China</i> . Yale University.
2022	<i>Food Globalization and Diverse Chinese Origins</i> (virtual). Seoul National University.
2020	<i>Cooking, Cuisine and Grains: The ritualistic aspect of food globalization</i> (virtual). Bryant University.

- 2020 *Function or Symbolism? The prehistoric roots of Eurasian cuisines* (virtual). Zhejiang University.
- 2019 *The Wind That Shakes the Barley*. Tang Centre for Early China, Columbia University.
- 2018 *Two Fertile Crescents*, invited paper presented at Chinese Academy of Agricultural Sciences.
- 2018 *Runaway World: Agrarian Foundation of the Old World Prehistory*, Feng Jihan Lecture Series, Sichuan University.
- 2017 *Food globalization in prehistory*, invited paper presented at Nevada University in Las Vegas.
- 2017 *Between fertile crescents: Trans-Eurasian exchange of cereal crops*, Bryant University.
- 2016 *Pathways to the eastern expansions of wheat and barley*. Institute of Archaeology, University of Oxford.
- 2016 *Mobile crops and conservative cuisines*. Archaeology Center, Stanford University.
- 2015 *The virtue of small wheat: Pathways to the eastern expansions of wheat cultivation*. Shanghai Archaeology Forum, Shanghai.
- 2015 *1984 BC: Was there a Bronze Age world system?* Department of Anthropology, Harvard University.
- 2014 *Chinese food and the world system in prehistory*, public lecture. Seattle Art Museum.
- 2013 *What I have eaten this summer: Stone Age food networks*, public lecture. 'One Way Street' bookshop, Beijing.
- 2013 *Water, soil and seasonality: Topographies of the Old World Agricultures*. Northwest University, Xi'an.
- 2012 *The arrival of the western food ways: isotopic and archaeobotanical perspectives*. Department of Archaeology, University of Pittsburgh.
- 2012 *Food globalization in prehistory*. British Museum.
- 2011 *Food web, production and consumption: The longue durée of the Neolithic China*. 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 8th 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 Washington University.

- 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>

PNAS (news article):

<https://www.pnas.org/doi/10.1073/pnas.2304407120>

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>

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

POSTDOCTORAL RESEARCHER MENTORED

2025 - present Dr Melissa Ritchey (PhD, Washington University)

2019 - 2022 Dr Petra Vaiglova (DPhil, Oxford)

2015 - 2019 Dr Rachel B. Reid (PhD, UC Santa Barbara)

DISSERTATION COMMITTEE CHAIR/CO-CHAIR

2025 - present Gou Yuan

2024 - present Ziyang Li

2023 - present Qimeng Duan

2023 - present Han Jiang

2022 - present Paige DeVos
 2019 - 2024 Melissa Ritchey
 2018 - 2024 Kai Su
 2017 - 2023 Yufeng Sun
 2016 - 2022 Zhengwei Zhang
 2015 - 2022 Mana Hayashi Tang
 2014 - 2021 Ximena Lemoine
 2014 - 2021 Yi-Ling Lin

DISSERTATION COMMITTEE MEMBER

2024 Lucy Diaz, Sewasew Assefa
 2023 Grace Ward, Xinzhou Chen
 2022 Seth Grooms
 2020 Kelsey Nordine, Mica Jones
 2019 Juan Carlos Melendez
 2018 Yuqi Li
 2017 Zhen Qin, Michael Storozum
 2016 Natalie Mueller
 2015 Abigail Stone

EXTERNAL DISSERTATION/VIVA EXAMINER

2023 Zhan Xiaoya, Nanyang Technological University, Singapore
 2018 Ting An, University of Cambridge

RESEARCH VISITORS

2024-2025 Dejun Liu, Fudan University
 2023-2024 Yang Liu, Shandong University
 2023-2024 Xi Zhang, Institute of Vertebrate Paleontology and Paleoanthropology (IVPP), CAS
 2022-2023 Prof. Ying Guan, Institute of Vertebrate Paleontology and Paleoanthropology, CAS
 2019 Elina Ananyevskaya, Vilnius University, Vilnius
 2018-2019 Wei Wang, Lanzhou University
 2017-2018 Rui Liu, Peking University
 2017-2018 Haiming Li, Lanzhou University
 2017 Prof. Zhijun Zhao, Institute of Archaeology, CASS
 2016-2017 Prof. Lan Li, Sichuan University
 2015-2016 Duo Tian, Northwest University
 2015-2016 Yuanyuan Gao, Sichuan University

UPDATED: NOVEMBER 2025