

# 个人简历

李明松

北京大学 地球与空间科学学院

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## 1. 教育背景

2016 年 7 月	博士 中国地质大学 (武汉) 地质学
2014 年 9 月 - 2016 年 8 月	约翰霍普金斯大学 (美) 博士联合培养
2012 年 7 月	硕士 吉林大学 古生物学与地层学
2009 年 7 月	学士 吉林大学 地质学

## 2. 科研经历

2020 年 12 月 -	研究员, 北京大学
2019 年 2 月 - 2020 年 12 月	助理研究教授, 宾州州立大学
2017 年 3 月 - 2018 年 12 月	博士后, 宾州州立大学
2016 年 9 月 - 2017 年 2 月	博士后, 乔治梅森大学

## 3. 曾获荣誉

- 2022 国家重点研发计划青年科学家项目负责人
- 2021 国家级人才计划青年项目入选者
- 2021 北京大学博雅青年学者
- 2016 李四光地质科学奖基金会 李四光优秀学生提名奖
- 2011 中国古生物学会第 26 届学术年会优秀展板报告奖

## 4. 发表文章

Google Scholar: <https://scholar.google.com/citations?user=NYUXDW0AAAAJ&hl=en>

被引次数: 1577 (2023 年 9 月 11 日)

\* = 通讯作者; # = 指导学生

2023

- 李明松\*, 张皓天, 王蒙, 金之钧. 2023. 天文驱动的温室时期地下水储库与海平面变化. *科学通报*, 68: 1517-1527, <https://doi.org/10.1360/TB-2022-0790>
- # 48. Meng Wang, **Mingsong Li\***, David Kemp, Jan Landwehrs, Zhijun Jin. 2023. Late Triassic sedimentary records reveal the hydrological response to climate forcing and the history of the chaotic Solar System. *Earth and Planetary Science Letters*, 607: 118052. <https://doi.org/10.1016/j.epsl.2023.118052>
47. Yiquan Ma, Majie Fan, **Mingsong Li\***, James Ogg, Chen Zhang, Jun Feng, Chunhua Zhou, Xiaofeng Liu, Yongchao Lu, Huimin Liu, James Eldrett, Chao Ma\*. 2023. East Asian lake hydrology modulated by global sea-level variations in the Eocene greenhouse. *Earth and Planetary Science Letters*, 602: 117925. <https://doi.org/10.1016/j.epsl.2022.117925>

46. Ren Wei, Zhijun Jin, Rui Zhang, **Mingsong Li**, Yongyun Hu, Xiangwu He, Shuai Yuan. **2023**. Orbitally-paced coastal sedimentary records and global sea-level changes in the early Permian. *Earth and Planetary Science Letters*, 620: 118356. <https://doi.org/10.1016/j.epsl.2023.118356>
45. Rui Zhang, David B Kemp, Nicolas Thibault, Mads E Jelby, **Mingsong Li**, Chunju Huang, Yu Sui, Zhixiang Wang, Dongyang Liu, Shizhen Jia. **2023**. Astrochronology and sedimentary noise modeling of Pliensbachian (Early Jurassic) sea-level changes, Paris Basin, France. *Earth and Planetary Science Letters*, 614: 118199. <https://doi.org/10.1016/j.epsl.2023.118199>
44. Rui Zhang, Zhijun Jin, **Mingsong Li**, Michael Gillman, Shuping Chen, Quanyou Liu, Ren Wei, Juye Shi. **2023**. Long-term periodicity of sedimentary basins in response to astronomical forcing: Review and perspective. *Earth-Science Reviews*, 244: 104533. <https://doi.org/10.1016/j.earscirev.2023.104533>
43. Chun-Sheng Jin, Deke Xu, **Mingsong Li**, Pengxiang Hu, Zhaoxia Jiang, Jianxing Liu, Yunfa Miao, Fuli Wu, Wentian Liang, Qiang Zhang, Bai Su, Qingsong Liu, Ran Zhang, Jimin Sun. **2023**. Tectonic and orbital forcing of the South Asian monsoon in central Tibet during the late Oligocene. *Proceedings of the National Academy of Sciences*, 120(5): 105617. <https://doi.org/10.1073/pnas.2214558120>
42. Ren Wei, **Mingsong Li**, Rui Zhang, Yongyun Hu, James G. Ogg, Guoyong Liu, He Huang, Xiangwu He, Shuai Yuan, Qifan Lin, Zhijun Jin. **2023**. Obliquity forcing of continental aquifers during the late Paleozoic ice age. *Earth and Planetary Science Letters*, 613: 118174. <https://doi.org/10.1016/j.epsl.2023.118174>
41. Ren Wei, Rui Zhang, **Mingsong Li**, Xiaojun Wang, Zhijun Jin. **2023**. Obliquity forcing of lake-level changes and organic carbon burial during the Late Paleozoic Ice Age. *Global and Planetary Change*, 233: 104092. <https://doi.org/10.1016/j.gloplacha.2023.104092>
40. Ruoyuan Qiu, Linhao Fang, Yuanzheng Lu, Yuxuan Chen, Renda Huang, Wenzhi Lei, Pengyuan Zhang, **Mingsong Li**. **2023**. Cyclostratigraphy of the Lower Jurassic (Toarcian) terrestrial successions in the Sichuan Basin, southwestern China. *Journal of Asian Earth Sciences*, 250: 105617. <https://doi.org/10.1016/j.jseaes.2023.105617>

## 2022

39. **Mingsong Li\***, Timothy J Bralower, Lee R Kump, Jean M Self-Trail, James C Zachos, William D Rush, Marci M Robinson. **2022**. Astrochronology of the Paleocene-Eocene Thermal Maximum on the Atlantic Coastal Plain. *Nature communications*, 13(1): 5618. <https://doi.org/10.1038/s41467-022-33390-x>
38. Tan Zhang, Yifan Li\*, Tailiang Fan, Anne-Christine Da Silva, Mingzhi Kuang, Wangwei Liu, Chao Ma, Qi Gao, Juye Shi, Zhiqian Gao, **Mingsong Li\***. **2022**. Orbital forcing of tropical climate dynamics in the Early Cambrian. *Global and Planetary Change*, 219, 103985. <https://doi.org/10.1016/j.gloplacha.2022.103985>
37. 田军, 吴怀春, 黄春菊, **李明松**, 马超, 汪品先. **2022**. 从 40 万年长偏心率周期看米兰科维奇理论. *地球科学*, 47(10): 3543-3568. <https://doi.org/10.3799/dqkx.2022.248>
36. Jessica E Tierney, Jiang Zhu, **Mingsong Li**, Andy Ridgwell, Gregory J Hakim, Christopher J Poulsen, Ross DM Whiteford, James WB Rae, Lee R Kump. **2022**. Spatial patterns of climate change across the Paleocene–Eocene Thermal Maximum. *Proceedings of the National Academy of Sciences*, 119 (42): e2205326119. <https://doi.org/10.1073/pnas.2205326119>
35. Zhifeng Zhang, Yongjian Huang, **Mingsong Li**, Xiang Li, Pengcheng Ju, Chengshan Wang. **2022**. Obliquity-forced aquifer-eustasy during the Late Cretaceous greenhouse world. *Earth and Planetary Science Letters*, 596: 117800. <https://doi.org/10.1016/j.epsl.2022.117800>

- # 34. **Yujing Wu**, Xianjun Fang, Linhua Jiang, Biao Song, Baofu Han, **Mingsong Li\***, Jianqing Ji\*. 2022. Very long-term periodicity of episodic zircon production and Earth system evolution. *Earth-Science Reviews*, 233: 104164. <https://doi.org/10.1016/j.earscirev.2022.104164>
33. Xu Yao, Shuang Dai, **Mingsong Li**, Linda Hinnov. 2022. Orbital eccentricity and inclination metronomes in Middle Miocene lacustrine mudstones of Jiuxi Basin, Tibet: Closing an astrochronology time gap and calibrating global cooling events. *Global and Planetary Change*, 215: 103896. <https://doi.org/10.1016/j.gloplacha.2022.103896>
32. Tan Zhang, Yifan Li\*, Tailiang Fan, Anne-Christine Da Silva, Juye Shi, Qi Gao, Mingzhi Kuang, Wangwei Liu, Zhiqian Gao, **Mingsong Li\***. 2022. Orbitally-paced climate change in the early Cambrian and its implications for the history of the Solar System. *Earth and Planetary Science Letters*, 583: 117420. <https://doi.org/10.1016/j.epsl.2022.117420>
31. Simin Jin, David B. Kemp, David W. Jolley, Manuel Vieira, James Zachos, Chunju Huang, **Mingsong Li**, Wenhan Chen. 2022. Large-scale, astronomically paced sediment input to the North Sea Basin during the Paleocene Eocene Thermal Maximum. *Earth and Planetary Science Letters*, 579, 1, 11734. <https://doi.org/10.1016/j.epsl.2021.117340>
- # 30. **Meng Wang**, **Mingsong Li\***, David B. Kemp, Slah Boulila, James G. Ogg. 2022. Sedimentary noise modeling of lake-level change in the Late Triassic Newark Basin of North America. *Global and Planetary Change*, 208, 103706. <https://doi.org/10.1016/j.gloplacha.2021.103706>

## 2021

29. Ying Cui\*, **Mingsong Li\***, Elsbeth E. van Soelen, Francien Peterse, Wolfram M. Kürschner\*. 2021. Massive and rapid predominantly volcanic CO<sub>2</sub> emission during the end-Permian mass extinction. *Proceedings of the National Academy of Sciences*, 118, 37, p. e2014701118. <https://doi.org/10.1073/pnas.2014701118> [亮点论文]
28. Dongyang Liu, Chunju Huang, James G. Ogg, David B. Kemp, **Mingsong Li**, Meiyi Yu, William J. Foster. 2021. Astronomically Forced Changes in Chemical Weathering and Redox During the Anisian (Middle Triassic): Implications for Marine Ecosystem Recovery Following the End-Permian Mass Extinction. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 569: 110355. <https://doi.org/10.1016/j.palaeo.2021.110355>
27. Dongyang Liu, Chunju Huang, David B. Kemp, **Mingsong Li**, James G. Ogg, Meiyi Yu, William J. Foster. 2021. Paleoclimate and sea level response to orbital forcing in the Middle Triassic of the eastern Tethys. *Global and Planetary Change*: 103454, <https://doi.org/10.1016/j.gloplacha.2021.103454>
26. Omid Falahatkah, Ali Kadkhodaie, Ali A. Ciabeghods, **Mingsong Li\***, 2021. Cyclostratigraphy of the Lower Triassic Kangan Formation in the Salman gas field, eastern Persian Gulf, Iran. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 561, 110045. <https://doi.org/10.1016/j.palaeo.2020.110045>

## 2017-2020

25. Haocheng Yu, Kunfeng Qiu, **Mingsong Li**, M. Santosh, Z.G. Zhao, Y.Q. Huang, 2020. Record of the late Paleozoic ice age from Tarim, China. *Geochemistry, Geophysics, Geosystems*, e2020GC009237. <https://doi.org/10.1029/2020GC009237>
24. Zheng Gong, **Mingsong Li**. 2020. *Astrochronology of the Ediacaran Shuram Carbon Isotope Excursion, Oman*. *Earth and Planetary Science Letters*, 547, 116462. <https://doi.org/10.1016/j.epsl.2020.116462>
23. J. Fred Read, **Mingsong Li**, Linda A. Hinnov, Campbell S. Nelson, Steven Hood. 2020. Testing for astronomical forcing of cycles and gamma ray signals in outer shelf/upper slope, mixed

- siliciclastic-carbonates: Upper Oligocene, New Zealand. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 555, <https://doi.org/10.1016/j.palaeo.2020.109821>
22. Yang Zhang, James G. Ogg, Matthias Franz, Gerhard H. Bachmann, Michael Szurlies, Heinz-Gerd Röhling, **Mingsong Li**, Christian Rolf, Karsten Obst. 2020. Carnian (Late Triassic) magnetostratigraphy from the Germanic Basin allowing global correlation of the Mid-Carnian Episode, *Earth and Planetary Science Letters*, 541, 116275, <https://doi.org/10.1016/j.epsl.2020.116275>
21. Chao Ma, **Mingsong Li**. 2020. Astronomical time scale of the Turonian constrained by multiple paleoclimate proxies. *Geoscience Frontiers*. 11, 1345-1352, <https://doi.org/10.1016/j.gsf.2020.01.013>
- # 20. Meng Wang, Honghan Chen, Chunju Huang, David B. Kemp, Tianwu Xu, Hongan Zhang, **Mingsong Li**. 2020. Astronomical forcing and sedimentary noise modeling of lake-level changes in the Paleogene Dongpu Depression of North China. *Earth and Planetary Science Letters*, 535: 116116, <https://doi.org/10.1016/j.epsl.2020.116116>
19. Tan Zhang, Changmin Zhang, Tailiang Fan, Lei Zhang, Rui Zhu, Jinyu Tao, **Mingsong Li**. 2020. Cyclostratigraphy of Lower Triassic terrestrial successions in the Junggar Basin, northwestern China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 109493, <https://doi.org/10.1016/j.palaeo.2019.109493>
18. **Mingsong Li**, Hubert L. Barnes. 2019. Astronomically forced sphalerite growth in the upper Mississippi Valley District. *Geochemical Perspectives Letters*, 12, 18-22, <https://doi.org/10.7185/geochemlet.1929> [封面文章]
17. Peng Gao, Junsheng Nie, **Mingsong Li**, Pu Li. 2019. Confirmation of a late Miocene subchron C4n.2n-1r from the eastern Qaidam Basin in the NE Tibetan Plateau. *Journal of Geophysical Research: Solid Earth*, <https://doi.org/10.1029/2019JB017936>
16. Matthias Sinnesael, David De Vleeschouwer, Christian Zeeden, Sietske J. Batenburg, Da Silva Anne-Christine, Niels J. de Winter, Jaume Dinarès-Turell, Anna Joy Drury, Gabriele Gambacorta, Frits Hilgen, Linda Hinnov, Alexander J.L. Hudson, David B. Kemp, Margriet Lantink, Jiri Laurin, **Mingsong Li**, Diederik Liebrand, Chao Ma, Stephen Meyers, Johannes Monkenbusch, Sandro Montanari, Theresa Nohl, Heiko Pälike, Damien Pas, Micha Ruhl, Nicolas Thibault, Maximilian Vahlenkamp, Luis Valero, Sébastien Wouters, Huaichun Wu, Philippe Claeys. 2019. The Cyclostratigraphy Intercomparison Project (CIP): consistency, merits and pitfalls. *Earth-Science Reviews*, <https://doi.org/10.1016/j.earscirev.2019.102965>
15. Qingda Su, Junsheng Nie, Zeng Luo, **Mingsong Li**, Richard Heermance, Carmala Garziona. 2019. Detection of strong precession cycles from the late Pliocene sedimentary records of northeastern Tibetan Plateau. *Geochemistry, Geophysics, Geosystems*, <https://doi.org/10.1029/2019GC008447>
14. **Mingsong Li**, Chunju Huang, James Ogg, Yang Zhang, Linda Hinnov, Huaichun Wu, Zhong-Qiang Chen, Zhuoyan Zou. 2019. Paleoclimate proxies for cyclostratigraphy: Comparative analysis using a Lower Triassic marine section in South China. *Earth-Science Reviews*, 189, 125-146, <https://doi.org/10.1016/j.earscirev.2019.01.011>
13. **Mingsong Li**, Linda Hinnov, Lee Kump. 2019. *Acycle*: Time-series analysis software for paleoclimate research and education. *Computers & Geosciences*, 127, 12-22, <https://doi.org/10.1016/j.cageo.2019.02.011>
12. **Mingsong Li**, Linda Hinnov, Chunju Huang, James Ogg. 2018. Sedimentary noise and sea levels linked to land-ocean water exchange and obliquity forcing. *Nature Communications*, 9, 1004, <https://doi.org/10.1038/s41467-018-03454-y>

11. **Mingsong Li**, Lee Kump, Linda Hinnov, Michael Mann. 2018. Tracking variable sedimentation rates and astronomical forcing in Phanerozoic paleoclimate proxy series with evolutionary correlation coefficients and hypothesis testing. *Earth and Planetary Science Letters*, 501, 165-179, <https://doi.org/10.1016/j.epsl.2018.08.041>
10. **Mingsong Li**, Chunju Huang, Weizhe Chen, Linda Hinnov, James Ogg, Wei Tian. 2018. Astrochronology of the Anisian Stage (Middle Triassic) of Guandao section, South China. *Earth and Planetary Science Letters*. 482, 591-606, <https://doi.org/10.1016/j.epsl.2017.11.042>
9. **Mingsong Li**, Yang, Zhang, Chunju Huang, James Ogg, Linda Hinnov, Yongdong Wang, Zhuoyan Zou, Liqin Li. 2017. Astronomical tuning and magnetostratigraphy of the Xujiahe Formation in South China and Newark Supergroup in North America: implications for the Late Triassic time scale. *Earth and Planetary Science Letters*. 475: 207-223, <https://doi.org/10.1016/j.epsl.2017.07.015>

#### 2010-2016

8. **Mingsong Li**, Chunju Huang, Linda Hinnov, James Ogg, Zhong-Qiang Chen, Yang Zhang. 2016. Obliquity-forced climate during the Early Triassic hothouse in China. *Geology*. 44(8): 623-726, <https://doi.org/10.1130/G37970.1> [封面文章]
7. **Mingsong Li**, James Ogg, Yang Zhang, Chunju Huang, Linda Hinnov, Zhong-Qiang Chen, Zhuoyan Zou. 2016. Astronomical-cycle scaling of the End-Permian Extinction and the Early Triassic Epoch of South China and Germany. *Earth and Planetary Science Letters*. 441:10-25, <https://doi.org/10.1016/j.epsl.2016.02.017>
6. Zhuoyan Zou, Chunju Huang, **Mingsong Li**, Yang Zhang. 2016. Climate response to astronomical forcing during the Oligocene-Miocene transition in the equatorial Atlantic (ODP Site 926). *Science China Earth Sciences*. 59(8): 1665-1673, <https://doi.org/10.1007/s11430-016-5311-y>
5. Yang Zhang, **Mingsong Li**, James Ogg, Paul Montgomery, Chunju Huang, Zhong-Qiang Chen, Zhiqiang Shi, Paul Enos, Daniel J. Lehrmann, 2015. Cycle-calibrated magnetostratigraphy of middle Carnian from South China: Implications for Late Triassic time scale and termination of the Yangtze Platform. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 436, 135-166. <https://doi.org/10.1016/j.palaeo.2015.05.033>
4. Yuewu Sun\*, **Mingsong Li**\*, Wenchun Ge, Yanlong Zhang, Dejun Zhang, 2013. Eastward termination of the Solonker–Xar Moron River Suture determined by detrital zircon U–Pb isotopic dating and Permian floristics. *Journal of Asian Earth Sciences*, 75, 243-250. <https://doi.org/10.1016/j.jseacs.2013.07.018>
3. 孙跃武, **李明松**, 赵国伟. 2012. 吉林延边地区早二叠世一个新的陆相地层单位. 地层学杂志, 2012,36(1): 237-245.
2. **李明松**, 孙跃武, 赵国伟. 2011. 吉林延边地区汪清县大兴沟早二叠世华夏植物群的发现及其地质意义. 地球科学进展, 26(3): 339-346.
1. 张淑芹, 刘玉英, **李明松**. 2010. 吉林万昌地区始新世—中新世孢粉组合及其地层意义. 世界地质, 29(3): 357-362.

## 5. 会议摘要

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#### 2023

80. 李明松. 2023. Acycle 2.7 软件在深时环境变化研究与教育中的应用. 中国古生物学会第十三次会员代表大会暨第 31 届学术年会. 中国南京 [主题报告]



- 79.李明松, 黄春菊, Linda Hinnov,王蒙, Lee Kump, Michael Mann, 张瑞, 金之钧. 2023. 40 万年偏心率周期的隐匿与天文年代研究标准化的困境. 地球节律与天文旋回暨张一伟地壳波动学术思想研讨会. 中国北京 [口头]
- 78.李明松. 2023. 天文年代学与数据同化重建始新世碳循环的时空演化. 地球系统科学大会·青年学者论坛. 中国上海 [邀请, 口头]
- 77.李明松, 张皓天, 王蒙, 魏韧, 张瑞, 金之钧. 2023. 温室时期地下水储库与海平面长期变化的天文驱动机制. 地球系统科学大会. 中国上海 [海报]
76. **Mingsong Li**, Timothy J Bralower, Lee R Kump, Jean M Self-Trail, James C Zachos, William D Rush, Marci M Robinson. 2023. 大西洋沿岸平原古新世-始新世极热事件的天文年代学和古环境变化. 沉积学大会. 中国成都 [口头]
75. **Mingsong Li**, Timothy J Bralower, Lee R Kump, Jean M Self-Trail, James C Zachos, William D Rush, Marci M Robinson. 2023. Astronomical calibration of the Paleocene-Eocene Thermal Maximum on the Atlantic Coastal Plain. EGU General Assembly. Vienna, Austria. [invited oral]

#### 2021-2022

74. Ciro Rodrigues, Natália Braun dos Santos, Daniel Ribeiro Franco, Mariana Aragão Fernandes, **Mingsong Li**, Raysa Magalhães Rocha, Mariane Candido, Daniel Galvão Fragoso, André De Gasperi. 2022. Cyclostratigraphy of sedimentary records from Albacora oilfield (Campos Basin, Southern Brazil). AGU Fall Meeting, Chicago & Online Everywhere.
73. **Mingsong Li**, Timothy J Bralower, Lee R Kump, Jean M Self-Trail, James C Zachos, William D Rush, Marci M Robinson. 2022. Cyclostratigraphy of the Paleocene-Eocene Thermal Maximum on the Atlantic Coastal Plain: A Data-model Comparison. AGU Fall Meeting, Chicago & Online Everywhere. [Poster]
72. Xu Yao, Shuang Dai, **Mingsong Li**, Linda Hinnov. 2022. Astronomical forcing of Miocene red and green mudstone rhythms reveals a negative hydrologic budget linked to orbital eccentricity maxima in northeastern Tibet. AGU Fall Meeting, Chicago & Online Everywhere. [Poster]
- # 71. **Meng Wang**, **Mingsong Li**, David B. Kemp, Slah Boulila, James G. Ogg. 2022. Sedimentary noise modeling of lake-level change and astronomical forcing in the Late Triassic Newark Basin of North America. The 21st International Sedimentological Congress, Beijing. [Oral]
- # 70. **Haotian Zhang**, **Mingsong Li**. 2022. Astrochronology of the Induan of the Lower Triassic: evidence from the Germanic Basin. AGU Fall Meeting, Chicago & Online Everywhere. [Poster]
- # 69. **Meng Wang**, **Mingsong Li**, David B. Kemp. 2022. Astronomical recalibration of the Upper Triassic in St. Audrie's Bay and its implication for chaotic behavior in the solar system. AGU Fall Meeting, Chicago & Online Everywhere. [Poster]
68. **Mingsong Li**, Lee Robert Kump, Andy Ridgwell, Jessica E Tierney, Gregory J. Hakim, Steven B Malevich, Christopher J Poulsen, Robert Tardif, Jiang Zhu. 2022. Global warming and ocean acidification during the Paleocene-Eocene Thermal Maximum. 2022 GENIE/muffin symposium. Online. [Oral]
67. Jessica E Tierney, Jiang Zhu, **Mingsong Li**, Andy Ridgwell, Lee Robert Kump, Gregory J. Hakim, Christopher J Poulsen. 2021. Spatial patterns of temperature and hydroclimate during the Paleocene-Eocene Thermal Maximum: Fingerprints of a warmer world. AGU Fall Meeting, New Orleans, LA & Online Everywhere.
66. Yiquan Ma, Majie Fan, James Ogg, **Mingsong Li**, Chao Ma. 2021. Orbitally tuned terrestrial time scale and astronomical forcing of regional lake hydrology change in East Asia during middle-late Eocene. AGU Fall Meeting, New Orleans, LA & Online Everywhere.
65. Xu Yao, Shuang Dai, **Mingsong Li**, Linda Hinnov. 2021. Cyclostratigraphy of early-middle Miocene lacustrine successions in Jiuxi Basin, northeastern Tibet. AGU Fall Meeting, New Orleans, LA & Online Everywhere.

64. **Mingsong Li**, Lee Robert Kump, Andy Ridgwell, Jessica E Tierney, Gregory J. Hakim, Steven B Malevich, Christopher J Poulsen, Robert Tardif, Jiang Zhu. 2021. Global warming and ocean acidification during the Paleocene-Eocene Thermal Maximum. AGU Fall Meeting, New Orleans, LA & Online Everywhere.
63. **Mingsong Li**, Meng Wang, James Ogg, Chunju Huang, Linda Hinnov. 2021. Astronomically driven paleo-lake and sea level changes in the Triassic. The 3<sup>rd</sup> Young Scientist Forum of Earth Science. Guiyang, Guizhou.
- # 62. 张皓天,李明松. 2021. 德国盆地下三叠统印度阶基于 405 kyr 周期的天文年代标尺. 第六届地球系统科学大会. 上海.
61. 李明松,黄春菊, Linda Hinnov ,王蒙, Lee Kump,Michael Mann.2021. 偏心率 40 万年周期的隐匿与天文年代研究标准化的困境. 第六届地球系统科学大会. 上海.
- # 60. **Meng Wang**, **Mingsong Li**, David B. Kemp, Slah Boulila. 2021. Glacial-driven sea-level changes in the Late Triassic. vEGU General Assembly. Vienna, Austria.

### 2017-2020

59. Peng Gao, Junsheng Nie, **Mingsong Li**, Pu Li. 2020. Confirmation of a Late Miocene Subchron C4n.2n-1r from the Eastern Qaidam Basin in the NE Tibetan Plateau. Geological Society of America Annual Meeting.
- # 58. **Meng Wang**, **Mingsong Li**. 2020. Reconstruction of high-resolution lake level and its astronomical forcing during the Paleogene. GeoUtrecht Virtual 2020.
57. **Mingsong Li**, Hubert L. Barnes. 2020. Astronomically forced sphalerite growth and groundwater circulation in the Upper Mississippi Valley District, USA. GeoUtrecht Virtual 2020.
56. **Mingsong Li**, Hubert L. Barnes. 2020. Orbitally forced groundwater circulation and sphalerite growth in the Upper Mississippi Valley District. Goldschmidt Virtual 2020.
55. **Mingsong Li**, Lee R. Kump, Oluwaseyi Ajayi, Daniel Amrhein, Gregory J. Hakim, Steven B. Malevich, Chris Poulsen, Andy Ridgwell, Robert Tardif, Jessica E. Tierney, Fuqing Zhang, Jiang Zhu. 2020. Impact of new observations on improved understanding of the Paleocene-Eocene Thermal Maximum. Goldschmidt Virtual 2020.
54. Thomas Wonik, Arne Ulfers, Matthias Sinnesael, **Mingsong Li**, Christian Zeeden. 2020. Detecting and using Milankovic cycles in borehole logging data: Comparing methods and application to Lake Ohrid. EGU General Assembly. Vienna, Austria.
53. Christian Zeeden, Matthias Sinnesael, **Mingsong Li**, Arne Ulfers, Thomas Wonik. 2020. Systematically probing for Milanković cycles in borehole logging data. The 36th International Geological Congress, Delhi, India.
52. Christian Zeeden, Matthias Sinnesael, **Mingsong Li**, Arne Ulfers, and Thomas Wonik. Borehole log cyclostratigraphy: Towards systematic probing for Milankovic cycles in logging data. vol. 21. *Geophysical Research Abstracts*, 2019.
51. J. Fred Read, **Mingsong Li**, Linda A. Hinnov, Campbell S. Nelson, Steven D. Hood. 2019. Are Milankovitch cycles evident in the gamma ray logs of Late Oligocene mixed siliciclastic-carbonates of Tikorangi Formation, Taranaki Peninsula, New Zealand? In: P.J.J. Kamp and A. Pittari eds. Abstract Volume: Geosciences 2019, Hamilton, New Zealand. Geoscience Society of New Zealand Miscellaneous Publication 154A. p. 144.
50. **Mingsong Li**, Lee R. Kump, Fuqing Zhang, Andy Ridgwell, Gregory J. Hakim, Jessica E. Tierney. 2019. Assessing the impact of new observations on improved understanding of the Paleocene-Eocene Thermal Maximum. AGU Fall Meeting, San Francisco, USA.
- # 49. **Meng Wang**, Honghan Chen, **Mingsong Li**. 2019. Tracking Paleogene lake level change and its long-term cyclicities by using sedimentary noise. AGU Fall Meeting, San Francisco, USA.
48. Daniel Amrhein, Gregory Hakim, Lee Kump, **Mingsong Li**, Steven Malevich, Chris Poulsen, Andy Ridgwell, Robert Tardif, Jessica Tierney, Jiang Zhu. 2019. Tropical Variability from the Last Glacial Maximum to Present. AGU Fall Meeting, San Francisco, USA.

47. Jessica Tierney, Steven Malevich, Jiang Zhu, Jonathan King, Chris Poulsen, Andy Ridgwell, **Mingsong Li**, Lee Kump, Robert Tardif, Greg Hakim. 2019. Glacial cooling and climate sensitivity revisited. AGU Fall Meeting, San Francisco, USA.
46. Jessica Tierney, Jiang Zhu, Jonathan King, **Mingsong Li**, Steven Malevich, Chris Poulsen, Andy Ridgwell, Greg Hakim, Robert Tardif, Lee Kump. 2019. A new view of the Eocene greenhouse world from paleoclimate data assimilation. AGU Fall Meeting, San Francisco, USA.
45. Christian Zeeden, Matthias Sinnesael, **Mingsong Li**, Arne Ulfers, and Thomas Wonik. 2019. Towards systematic probing for Milankovic cycles in borehole logging data and complex settings. AGU Fall Meeting, San Francisco, USA.
44. Hwei Duan, Jiyong Jiang, Mingsong Li. 2019. Bridging Chinese Landscape Painting and geosciences. AGU Fall Meeting, San Francisco, USA.
43. Dongyang Liu, Chunju Huang, David Kemp, **Mingsong Li**, Meiyi Yu, William Foster. 2019. Orbital forcing in the Middle Triassic of the eastern Tethys: implications for paleoclimate and eustasy. AGU Fall Meeting, San Francisco, USA.
42. Tan Zhang, Changmin Zhang, **Mingsong Li**, Tailiang Fan. 2019. Cyclostratigraphy of the Lower Triassic terrestrial successions in the Junggar Basin, northwestern China. AGU Fall Meeting, San Francisco, USA.
41. Naihua Xue, Wei Wang, **Mingsong Li**. 2019. Astrochronology and Geochemistry for the Doushantuo Formation of Ediacaran of Yichang in South China. AGU Fall Meeting, San Francisco, USA.
40. Yan Chen, Yang Zhang, James G Ogg, Haishui Jiang, Zhiming Sun, **Mingsong Li**. 2019. Integrated Early Triassic time scale of geomagnetic polarity, cyclostratigraphy, biostratigraphy and geochemical excursions from South China and its global correlation. AGU Fall Meeting, San Francisco, USA.
39. Ying Cui, Els van Soelen, **Mingsong Li**, Wolfram Kürschner. 2019. Permian-Triassic global marine and terrestrial carbon cycle records from the Finnmark platform in Norway. Geological Society of America Annual Meeting, Phoenix, USA.
38. Jessica E. Tierney, Jonathan King, Steven Brewster Malevich, Tripti Bhattacharya, Ran Feng, Jiang Zhu, **Mingsong Li**, Chris J. Poulsen, Alan M. Haywood, Bette Otto-Bliesner, Andy Ridgwell, Greg Hakim, Robert Tardif, Lee R. Kump. 2019. New Views of Warm Worlds from Paleoclimate Data Assimilation. Goldschmidt 2019, Barcelona, Spain.
37. Christian Zeeden, Matthias Sinnesael, **Mingsong Li**, Arne Ulfers, and Thomas Wonik. 2019. Towards systematic probing for Milankovic cycles in borehole logging data and complex settings. STRATI, 3<sup>rd</sup> International Congress on Stratigraphy. Milano, Italy.
36. Christian Zeeden, Matthias Sinnesael, **Mingsong Li**, Arne Ulfers, and Thomas Wonik. 2019. EGU2019-3284: Borehole log cyclostratigraphy: towards systematic probing for Milankovic cycles in logging data. EGU General Assembly. Vienna, Austria.
35. **Mingsong Li**, Chunju Huang, James Ogg, Linda Hinnov, Yang Zhang, Weizhe Chen, Wei Tian. 2018. Astrochronology of the end-Permian extinction and the Early-Middle Triassic. Goldschmidt 2018, Boston, USA. [Invited Oral]
34. **Mingsong Li**, Linda Hinnov, Chunju Huang, James Ogg. 2018. Sedimentary noise and Early Triassic sea levels linked to land-ocean water exchange and obliquity forcing. International Symposium on Deep-time Environmental & Climatic Extremes and Biotic Responses, Wuhan, China. [Invited Oral]
33. **Mingsong Li**, Linda Hinnov, Lee Kump. 2018. A time-series analysis software package (*Acycle*) for paleoclimate research and education. AGU Fall Meeting, Washington DC, USA. [Poster]
32. Naihua Xue, Chengguo Guan, Bo Wang, **Mingsong Li**. 2018. Astronomical Time Scale of the Ediacaran Period of South China. AGU Fall Meeting, Washington DC, USA. [Poster]
31. **Mingsong Li**, Lee R. Kump, Linda A. Hinnov, Michael E. Mann, Andy Ridgwell. 2018. New methods for astrochronological calibration of paleoclimate proxies and significance for deep time data assimilation. The 3rd DeepMIP meeting, Bristol, UK. [Oral]



30. **Mingsong Li**, Yang Zhang, Chunju Huang, James Ogg, Linda Hinnov, Yongdong Wang, Zhuoyan Zou, Liqin Li, Stephen Grasby, Yijiang Zhong, Keke Huang. 2017. Astrochronology and magnetostratigraphy of the Xujiahe Formation of South China and Newark Supergroup of North America: implications for the Late Triassic time scale. AGU Fall Meeting, New Orleans, USA. [Poster]
29. Lee Kump, **Mingsong Li** (presenter), Linda Hinnov. 2017. Tracking variable sedimentation rates in orbitally forced paleoclimate proxy series. AGU Fall Meeting, New Orleans, USA. [Poster]
28. **Mingsong Li**, Yang Zhang, James Ogg, Chunju Huang, Linda Hinnov, Zhong-Qiang Chen. 2017. Triassic Time Scale from Astronomical-tuned Magnetostratigraphy. Geological Society of America Abstracts with Programs. 49(6), doi: 10.1130/abs/2017AM-302748. [Oral]
27. Yan Chen, Yang Zhang, James Ogg, **Mingsong Li**, Zhong-Qiang Chen, Chengyi Tu, Daoliang Chu. 2017. Magnetostratigraphy of the continental reference section for latest Permian through Early Triassic of North China at Dayulin (Henan province). Geological Society of America Abstracts with Programs. 49(6), doi: 10.1130/abs/2017AM-301904. [Oral]
26. **Mingsong Li**, Yang Zhang, James Ogg (presenter), Chunju Huang, Zhong-Qiang Chen, Linda Hinnov. 2017. Triassic TimeScale from Astronomical-tuned Magnetostratigraphy. The 4th International Conference of Geobiology. Wuhan, China [Oral]
25. **Mingsong Li**, Chunju Huang, James Ogg, Linda Hinnov, Yang Zhang, Zhong-Qiang Chen. 2017. Cyclo-magnetostratigraphy of the global Triassic. The First CUG Forum for Overseas Young Scholars. China University of Geosciences (Wuhan) [Oral]
24. Wei Liu, Huaichun Wu, Linda Hinnov, Chao Ma, **Mingsong Li**. 2017. Astronomically forced deposition in the Early Cretaceous Songliao synrift basin, China and its paleoclimatic implications. Joint 52nd Northeastern Annual Section / 51st North-Central Annual Section Meeting – 2017, Geological Society of America Abstracts with Programs. 49(2), doi: 10.1130/abs/2017NE-290749. [Oral]

#### 2010-2016

23. Linda Hinnov, **Mingsong Li**, Chunju Huang. 2016. Bio-cyclo-magneto-stratigraphy solves longstanding problems of the global Triassic: astronomically paced aquifer-eustasy, interregional platform correlation, and geologic time. AGU Fall Meeting, San Francisco, USA. [Invited oral]
22. **Mingsong Li**, Chunju Huang, Linda Hinnov, James Ogg, Yang Zhang. 2016. On the timescale controversy of the Spathian substage (Early Triassic) in South China. Geological Society of America Annual Meeting, Denver, USA. [Poster]
21. **Mingsong Li**, Chunju Huang, Linda Hinnov, Weizhe Chen, Wei Tian. 2016. Astronomical-cycle scaling of the Anisian Stage in South China: implications for biotic recovery following the end-Permian mass extinction. Geological Society of America Annual Meeting, Denver, USA. [Oral]
20. Yang Zhang, **Mingsong Li**, James Ogg, Linda Hinnov, Chunju Huang, Zhong-Qiang Chen. 2016. Cycle-calibrated magnetostratigraphy and time scales for the Early and early-Late Triassic. International Geological Congress, Cape Town, South Africa. [Oral]
19. **Mingsong Li**, Chunju Huang, Linda Hinnov. 2015. Testing multiple paleoclimatic proxies in a Triassic marine record from China. AGU Fall Meeting, San Francisco, USA. [Poster]
18. **Mingsong Li**, Chunju Huang, Linda Hinnov. 2015. Intermittent obliquity-forced climate during the Early Triassic. Geological Society of America Annual Meeting in Baltimore, MD, USA. [Oral]
17. **Mingsong Li**, Chunju Huang, Linda Hinnov, James Ogg, Yang Zhang, Zhong-Qiang Chen, Zhuoyan Zou. 2015. An astronomical time scale for Triassic ecosystem recovery in South China. Geological Society of America Annual Meeting in Baltimore, MD, USA. [Poster]
16. Yang Zhang, **Mingsong Li**, James Ogg, Paul Montgomery, Chunju Huang, Zhong-Qiang Chen, Zhiqiang Shi, Paul Enos, Daniel J. Lehrmann, 2015. Cycle-calibrated Magnetostratigraphy of middle Carnian from South China: Implications for Late Triassic Time Scale and Termination of the Yangtze Platform. Geological Society of America Annual Meeting in Baltimore, MD, USA. [Oral]

15. **Mingsong Li**, Linda Hinnov, Chunju Huang, James Ogg, Zhong-Qiang, Chen, Yang Zhang. 2015. Cyclostratigraphy and Integrated Time Scale of the Early Triassic. 2nd Boreal Triassic Conference and 12th International Workshop on the Permo-Triassic, Svalbard, Norway. [Oral]
14. **Mingsong Li**, Chunju Huang, Linda Hinnov. 2015. Multiple proxies of ancient climate and sea-level change: A Permian-Triassic transition example. Geological Society of America Southeastern Section - 64th Annual Meeting. Chattanooga, Tennessee, USA. [Oral]
13. **Mingsong Li**, James Ogg, Chunju Huang, Yang Zhang, Zhong-Qiang Chen, Linda Hinnov, 2014. Astrochronology of the Early Triassic from South China, IsoAstro Geochronology Workshop: The integration and intercalibration of radioisotopic and astrochronologic time scales, Madison, USA. [Oral]
12. **Mingsong Li**, Chunju Huang, James Ogg, Yang Zhang, Zhong-Qiang Chen, Linda Hinnov, 2014. Cyclostratigraphy of the Early Triassic from South China. The Third Conference on Earth Systems Science, Shanghai, China. [Oral]
11. **Mingsong Li**, Chunju Huang, Zhong-Qiang Chen, Yang Zhang, Linda Hinnov, James Ogg, 2014. Astrochronology of the Early Triassic from South China and the Earth system model, The 3rd International Conference of Geobiology – Combing ancient records with the present day observations. Wuhan, China. 100-101. [Oral]
10. **Mingsong Li**, Chunju Huang, Yang Zhang, Zhuoyan Zou, James Ogg, 2013. Astronomical calibration of the duration of the Induan Stage (Early Triassic), The 11th National Congress of the Palaeontological Society of China (PSC) and the 27th Annual Conference of PSC, Dongyang, China, p. 119. [Oral]
9. **Mingsong Li**, Chunju Huang, Yang Zhang, Zhuoyan Zou, Shifeng Tian, Xiaoqing Liu, 2013. High-resolution rock color series of the Permian-Triassic succession at Xiakou section, Yichang, Hubei Province and its response to orbital forcing, Abstract of the 5th National Symposium on Sedimentology, Hangzhou, China, 431-432. [Oral]
8. **Mingsong Li**, Chunju Huang, Yang Zhang, Shifeng Tian, Zhuoyan Zou, Xiaoqing Liu, 2013. Astrochronology of the Griesbachian substage (Lower Triassic) from Xiakou section, Hubei Province, South China, in Zhong-Qiang Chen, Hao Yang, Genming Luo. (Eds.), World Summit on P-Tr Mass Extinction & Extreme Climate Change, Wuhan, China, 42-43. [Oral]
7. 李明松, 孙跃武, 葛文春, 张兴洲, 张凤旭, 张淑芹, 张彦龙, 赵国伟, 张德军. 2013. 西拉木伦河缝合带在吉林省的东延位置: 第六届构造地质与地球动力学学术研讨会, 长春 [展板]
6. 李明松, 孙跃武, 张兴洲, 葛文春, 2012. 嘎呀河-图们江: 古亚洲洋最东端的关闭位置[C], 第二届深海研究与地球系统科学学术研讨会, 上海, p. 53-54. [展板]
5. 李明松, 孙跃武, 葛文春, 张彦龙. 2011. 吉林延边地区开山屯植物群的时代——碎屑锆石 U-Pb 年代学约束[C]. 中国古生物学会第 26 届学术年会论文摘要集, 贵州关岭, 99-100. [优秀展板报告奖]
4. Yuewu Sun, Xingzhou Zhang, **Mingsong Li**, 2011, New material on Permian phytogeography in the Yanbian area, eastern Jilin Province, China: Proceedings of the Proc Russian Sci Conference with foreign participants on Geological processes in the lithospheric plates subduction, collision, and slid environments, Dalnauka, Vladivostok, 153.
3. 孙跃武, 张淑芹, 李明松, 张德军. 2011. 华北板块东北缘石炭-二叠纪地层序列[C]. 中国古生物学会第 26 届学术年会论文摘要集. 贵州关岭, 91-92. [口头]
2. 李明松, 孙跃武, 赵国伟. 2010. 吉林延边地区二叠纪植物地理区系[C]. 中国古生物学会古植物学分会第七届会员代表大会暨 2010 年学术年会论文摘要集. 云南景洪. 32. [口头]
1. 李明松, 赵国伟, 王成文, 孙跃武. 2010. 西拉木伦河缝合带在延边地区的东延——来自汪清大兴沟华夏植物群的证据[C]. 见: 松辽盆地及外围地区油气资源战略调查学术研讨会. 松原. 69-70. [口头, 会议论文一等奖]

## 6. 讲座与学术报告

31. 中国科学院大气所. 北京. 2023 年 9 月 15 日. 邀请报告.
30. 中国科学院青藏所. 北京. 2023 年 4 月 19 日. 邀请报告.
29. 中国科学院地球环境所“古今风云”论坛. 西安. 2023 年 4 月 13 日. 邀请报告.
28. 2023 Paleoclimatology Group Seminar. 2023 年 2 月 5 日.
27. 固体地球科学重点实验室联盟 2022 年学术委员会会议. 2022 年 12 月 18 日.
26. 国家自然科学基金委员会大陆演化与季风系统演变基础科学中心项目网络系列学术研讨会. 2022 年 10 月 15 日.
25. 吉林大学. 2022 年 5 月 9 日. 邀请报告.
24. 古磁天地云论坛. 2021 年 12 月 5 日. 邀请报告.
23. 北京大学, 2021 年 10 月 27 日, 邀请报告.
22. 南方科技大学. 2021 年 10 月 23 日. 邀请报告.
21. Montclair State University. 2021 年 10 月 11 日. 邀请报告.
20. 同济大学. 2021 年 10 月 11 日, 邀请报告.
18. 北京大学, 2021 年 6 月 11 日, GeoLunch 报告.
17. 北京大学, 2021 年 5 月 26 日, Astrobiology Initiative 讲座报告.
17. 同济大学. 2021 年 4 月 19 日, 邀请报告.
16. 中国地质大学(北京), 2021 年 4 月 16 日, 受邀报告
15. Virginia Tech, 美国弗吉尼亚州, 2021 年 3 月 18 日, 受邀报告
14. 中国科学院地质与地球物理研究所, 2021 年 3 月 16 日, 刘东生讲座邀请报告。
13. Virginia Tech, 美国弗吉尼亚州, 2021 年 3 月 11 日, 受邀报告
12. 宾州州立大学, 美国宾夕法尼亚州, 2020 年 2 月 14 日
11. 理海大学, 美国宾夕法尼亚州, 2019 年 9 月 6 日, 受邀报告
10. 乔治梅森大学, 美国弗吉尼亚州, 2019 年 3 月 28 日, 受邀报告
9. 宾州州立大学, 美国宾夕法尼亚州, 2018 年 9 月 21 日
8. 中国科学院南京古生物与地质研究所, 中国江苏南京, 2018 年 5 月 11 日, 受邀报告
7. 南京大学, 中国江苏南京, 2018 年 5 月 9 日, 受邀报告
6. 中国地质大学(武汉). 中国湖北武汉, 2018 年 3 月 26 日(邀请报告)
5. 普渡大学, 美国印第安纳州西拉法叶, 2018 年 1 月 18 日(邀请报告)
4. 北京大学, 中国北京, 2017 年 10 月 19 日(邀请报告)
3. 宾夕法尼亚州立大学. 美国宾夕法尼亚州州学院, 2017 年 4 月 14 日
2. 中国地质大学(武汉). 中国湖北武汉, 2017 年 3 月 19 日(邀请报告)
1. 乔治梅森大学, 大气、海洋与地球科学系, 地质学讲座, 美国弗吉尼亚州费尔法克斯 2015 年 10 月 8 日

## 7. 教学

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- 2023 秋季, 北京大学, 地球科学中的数据科学(01232010), 本科生课程
- 2023 秋季, 北京大学, 深时地球数据分析与可视化(01201270), 研究生课程
- 2022 秋季, 北京大学, 深时地球数据分析与可视化(01201270), 研究生课程
- 2021 秋季, 北京大学, 古生物学与地层学前沿, 研究生课程, 合上
- 2020 宾州州立大学, 临时讲师: 地球生物学
- 2019 理海大学, 受邀短期培训课: Acycle 时间序列分析软件及其在古气候研究中的应用
- 2016 乔治梅森大学, 助课和实习课: 沉积地质学、古海洋学
- 2014 中国地质大学(武汉), 助教: *Astronomical Forcing of the Paleoclimate System*

## 8. 指导学生

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本科生班主任

北京大学地球与空间科学学院 2022 级 1 班地球化学强基班  
本科生科研

王之鑫: 北京大学地球与空间科学学院, 2020 级本科生

向志丹: 北京大学地球与空间科学学院, 2021 级本科生

张馨文: 北京大学地球与空间科学学院, 2021 级本科生

刘佳豪: 北京大学地球与空间科学学院, 2022 级本科生

研究生

张皓天: 北京大学, 直博生, 2021 年 9 月-2026 年 7 月

张昊勋: 北京大学, 硕士生, 2021 年 9 月-2024 年 7 月

武于靖: 北京大学, 直博生, 2019 年 9 月-2024 年 7 月, 副导师

张小宇: 北京大学, 直博生, 2022 年 9 月-2027 年 7 月

蒋青青: 北京大学, 硕士生, 2022 年 9 月-2025 年 7 月

朱晗宇: 北京大学, 直博生, 2023 年 9 月-2028 年 7 月

王蒙: 宾州州立大学访学博士生, 2019 年 7 月-2020 年 9 月, 外方导师

**Ciro Clímaco Rodrigues:** 巴西 National Observatory in Rio de Janeiro 硕士, 2021 年至 2023 年, 副导师

**Mariana Arago Fernandes:** 巴西 National Observatory in Rio de Janeiro 硕士, 2021 年至今, 副导师

博士后

王蒙: 北京大学博雅博士后, 2021 年 7 月至今

纪开宣: 北京大学博士后, 2022 年 12 月至今

## 9. 科研项目

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### 2021 年以来

15. 2022 年 12 月 – 2027 年 11 月, 国家重点研发计划青年科学家项目“古新世-始新世极热事件时期轨道尺度海洋脱氧的时空演化”(2022YFF0802900), 主持, 400 万
14. 2022 年 1 月 – 2025 年 12 月, 国家级人才计划青年项目“天文年代学与深时全球变化”, 主持, 100 万
13. 2021 年 12 月 – 2026 年 11 月, 国家重点研发计划青年科学家项目“示踪元古宙中期地球宜居性演化的金属稳定同位素技术”(2021YFA0718200), 骨干, 533 万
12. 2021 年 1 月 – 2024 年 12 月, 北京大学基本科研业务费“高分辨率天文年代学与古气候变化研究”(7100603368), 主持, 100 万
11. 2021 年 1 月 – 2024 年 12 月, 国家自然科学基金面上项目“基于沉积噪音模型的中德早三叠世湖平面与海平面变化机制研究”(42072040), 主持, 61 万

### 2020 年及以前

10. 2017 年 3 月 – 2020 年 12 月, Heising-Simons Foundation, “Paleoclimate Data Assimilation for Deep Time”, 主要参与者
9. 2016 年 9 月 – 2017 年 2 月, NSF-Standard Grant-OCE-1303605, “Collaborative Research: The relationship between multi-year droughts in California, coupled ocean-atmosphere climate oscillations and climate forcing”, 参与
8. 2014 年 1 月 – 2016 年 12 月, 国家自然科学基金优秀青年基金(41322013)“天文旋回与深时全球变化”, 第 5 参加人
7. 2014 年 1 月 – 2016 年 12 月, 国家自然科学基金青年基金(41302113)“川西坳陷上三叠统须家河组米兰科维奇旋回的识别及天文年代标尺建立”, 第 4 参加人



6. 2012年1月–2014年12月、国家自然科学基金青年基金项目（41102004）“吉林中部地区石炭系牙形刺研究”，第3参加人
5. 2012年9月–2014年12月973项目（2012CB822000-G）“晚中生代温室地球气候—环境演变”子课题，参与
4. 2011–2012中国地质调查局沈阳地调中心“东北地区泥盆—石炭纪地层划分对比及油气资源前景研究”参与
3. 2011–2012中国地质科学院矿产资源研究所“天山—兴蒙构造带石炭—二叠系对比研究”参与
2. 2011年1月–2012年12月教育部重点实验室平台项目“吉林延边地区晚古生代古生物地理区划”第2参加人
1. 2009年9月–2012年7月全国油气资源战略选区调查与评价国家专项（第二批）“松辽盆地及外围上古生界油气资源战略选区”子项目“松辽盆地及外围上古生界石油地质综合研究”（14B09XQ1201），参与

## 10. 专业软件

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**Acycle 软件:**

<https://acycle.org>

图形界面、跨平台的时间序列分析软件，为世界各地的数百位古气候研究者提供便利，用户来自耶鲁大学、普林斯顿大学、哥伦比亚大学、卡尔加里大学、澳大利亚国立大学、乌德勒支大学、帕多瓦大学、巴西国家观测局、中国科学院、北京大学、兰州大学、中国地质大学、中国石油大学等单位

## 11. 科研活动

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### (1) 学会任职

2022至今中国地质学会人类世研究分会委员

### (2) 编委会

2021-2023 *National Science Review* 学科编辑组成员

### (3) 召集主持学术会议

2023 美国地球物理学会（AGU）秋季年会专题会议主席与召集人, *PP019. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System*

2023 上海地球系统科学大会，专题召集人，专题 36 长周期地球轨道力驱动的地球系统演变

2023 上海地球系统科学大会，专题召集人，专题 37 地球变暖时期的古环境重建

2022 美国地球物理学会（AGU）秋季年会专题会议主席与召集人, *PP11C. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System I Online Poster Discussion*

2022 美国地球物理学会（AGU）秋季年会专题会议主席与召集人, *PP13B. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System II Oral*

2022 美国地球物理学会（AGU）秋季年会专题会议主席与召集人, *PP25D. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System III Poster*

2022 美国地球物理学会（AGU）秋季年会专题会议共同主席, *PP14A. Ocean Deoxygenation During Past Hyperthermals I Online Poster Discussion*

2022 美国地球物理学会（AGU）秋季年会专题会议共同主席, *PP22D. PP22D - Ocean Deoxygenation During Past Hyperthermals II Poster*

2021 美国地球物理学会（AGU）秋季年会专题会议主席与召集人, *PP006. Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System*



2021 美国地质学会 (GSA) 年会专题会议共同召集人, T171: *Data-Driven Approaches Deciphering Water and Carbon Cycles in Earth-Surface Systems*  
2021 欧洲地球科学联合会年会共同召集人: *CL1.8/SSP2.4: Climate response to orbital forcing*  
2020 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人: *Astronomical Forcing and Past Climate Cycles*  
2020 Goldschmidt 专题会议主席与召集人: *New Developments in Deep-Time Paleoceanography: Geochemical Proxies, Cyclostratigraphy & Data Analysis*  
2019 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人: *Cyclostratigraphy and Astronomical Forcing of Past Climates*  
2019 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人: *Chrono-stratigraphy using Magnetic Methods*  
2018 美国地球物理学会 (AGU) 秋季年会专题会议主席与召集人: *Cyclostratigraphy and Astrochronology in Deep Time*  
2018 深时极端气候环境与生物响应国际研讨会专题会议共同主席: *Triassic*  
2018 欧洲地球科学联合会年会共同召集人: *Session CL1.31: Climate response to orbital forcing*  
2017 美国地球物理学会 (AGU) 秋季年会专题会议共同主席 PP42B: *Cyclostratigraphy and Astronomical Forcing of Past Climates*  
2017 美国地质学会 (GSA) 年会专题会议共同召集人 T47: *Recent Developments in Cyclostratigraphy*

**(4) 基金评阅人:**

中国国家自然科学基金委 NSFC, 美国自然科学基金 NSF, 德国研究基金会 DFG, 波兰国家科学中心

**(5) 杂志审稿人:**

Publons: <https://publons.com/researcher/1455928/mingsong-li/peer-review/>

(23) *Palaeogeography, Palaeoclimatology, Palaeoecology*, (5) *Journal of Asian Earth Sciences*, (4) *Marine and Petroleum Geology*, (3) *Earth and Planetary Science Letters*, (3) *Geology*, (2) *Computers & Geosciences*, (2) *Cretaceous Research*, (2) *Geological Journal*, (2) *Geophysical Research Letters*, (2) *Global and Planetary Change*, (2) *Journal of King Saud University - Science*, (1) *Arabian Journal of Geosciences*, (1) *Earth-Science Reviews*, (1) *GSA Bulletin*, (1) *Geoscience Frontiers*, (1) *Gondwana Research*, (1) *Journal of Ocean University of China*, (1) *Nature Communications*, (1) *Paleoceanography*, (1) *Paleoceanography and Paleoclimatology*, (1) *Precambrian Research*, (1) *Quaternary Science Reviews*, (1) *Science*, (1) *Scientific Reports*, (1) *Sedimentology*

**(6) 学术评委:**

2022 北京大学地空学院研究生第五届“学术之星”评委  
2021 北京大学地空学院研究生第四届“学术之星”评委  
2019 Outstanding Student Presentation Award (OSPA), AGU  
2018 Outstanding Student Presentation Award (OSPA), AGU  
2017 Tenth Annual Postdoc Research Exhibition, Penn State

## 12. 部分媒体报道

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2022 北京大学新闻网, 地空学院李明松研究员在古新世-始新世极热事件研究中取得进展,  
<https://news.pku.edu.cn/jxky/20c6bb15765e489ba497b0ed382b38e7.htm>

- 2022 Penn State, Sciencedaily, Phys.org: Changes in Earth's Orbit May Have Triggered Ancient Warming Event <https://www.psu.edu/news/research/story/changes-earths-orbit-may-have-triggered-ancient-warming-event>
- 2022 Épisode hyperthermique du Paléocène-Éocène: et si la cause était astronomique ? <https://sciencepost.fr/episode-hyperthermique-du-paleocene-eocene-et-si-la-cause-etait-astronomique/>
- 2022 LOS CAMBIOS EN LA ÓRBITA DE LA TIERRA PUEDEN HABER DESENCADENADO UN ANTIGUO EVENTO DE CALENTAMIENTO <https://noticiadelatierra.com/los-cambios-en-la-orbita-de-la-tierra-pueden-haber-desencadenado-un-antiguo-evento-de-calemtamiento/>
- 2022 Une modification dans l'orbite de la Terre a causé le plus grand réchauffement climatique jamais connu <https://www.futura-sciences.com/planete/actualites/rechauffement-climatique-modification-orbite-terre-cause-plus-grand-rechauffement-climatique-jamais-connu-102342/#xtor%3DRSS-8>
- 2022 Ученые выяснили последствия изменений орбиты Земли <https://cursorinfo.co.il/interest/uchenyevyyasnili-posledstviya-izmenenij-orbity-zemli/>
- 2022 Выявлены причины древнего глобального потепления <https://lenta.ru/news/2022/12/15/orbital/>
- 2022 Maps of the past may shed light on our climate future <https://phys.org/news/2022-10-climate-future.html>
- 2022 中国科学报, 学术论文中, 署名应该遵守什么规范, <https://news.sciencenet.cn/htmlnews/2022/5/479615.shtm>
- 2021 ThePaper, PKU News, Physics News, Courthouse News Service, “Volcanic eruptions that caused Permian mass extinction also brought huge spike in global temperatures” <https://phys.org/news/2021-09-mass-extinction-lethal-temperatures-due.html>
- 2021 lenta.ru, Названа причина крупнейшей катастрофы в истории Земли, <https://lenta.ru/news/2021/09/09/traps/>
- 2021 MSN, Yahoo, Le CO2 en cause dans la pire catastrophe de l'Histoire de la Terre, <https://www.msn.com/fr-fr/actualite/technologie-et-sciences/le-co2-en-cause-dans-la-pire-catastrophe-de-lhistoire-de-la-terre/ar-AAOcuZ8?li=BB0JvSH>, <https://fr.news.yahoo.com/co2-cause-pire-catastrophe-l-014500489.html>
- 2021 nrc.nl, Siberische vulkanen zorgden voor massaal uitsterven, <https://www.nrc.nl/nieuws/2021/09/06/siberische-vulkanen-zorgden-voor-massaal-uitsterven-a4057312>
- 2021 澎湃新闻, 科学网, “史上最大物种灭绝罪魁祸首找到了: 火山二氧化碳, 海水被酸化” [https://www.thepaper.cn/newsDetail\\_forward\\_14391612](https://www.thepaper.cn/newsDetail_forward_14391612), <http://news.sciencenet.cn/htmlnews/2021/9/464658.shtm>
- Mar 2020 Newsweek: “Days on Earth When Dinosaurs Lived Were Half an Hour Shorter Than They Are Now, Ancient Fossil Reveals” <https://www.newsweek.com/days-earth-dinosaurs-half-hour-shorter-ancient-fossil-1491422>
- Oct 2019 Penn State Today, Science Daily, Physics News: “Ancient rain gauge: New evidence links groundwater, climate changes in deep time” <https://phys.org/news/2019-11-ancient-gauge-evidence-links-groundwater.html>
- April 2018 Penn State Today, Science Daily, Physics News, and EurekAlert: “Connection of sea level and groundwater missing link in climate response” <https://www.sciencedaily.com/releases/2018/04/180403120002.htm>
- April 2018 Europa Press: “La inclinación terrestre altera el nivel del mar sin hielo en los polos” <http://www.europapress.es/ciencia/habitat-y-clima/noticia-inclinacion-terrestre-altera-nivel-mar-hielo-polos-20180403143840.html>
- Sept 2017 Chinese Academy of Sciences: “A Step Toward A Complete Triassic Time Scale: Proposal from China” [http://english.cas.cn/newsroom/research\\_news/201709/t20170905\\_182756.shtml](http://english.cas.cn/newsroom/research_news/201709/t20170905_182756.shtml)

