

苟盛 履歷

教育經歷

2011/9 – 2016/1，中國科學院大學，地圖學與地理資訊系統，博士
2014/4 – 2015/7，法國國家科研中心，天體物理與行星研究所，訪問博士生
2008/9 – 2011/7，成都理工大學，應用數學，碩士
2004/9 – 2008/7，成都理工大學，資訊與計算科學，學士

工作經歷

2022/4-至今，中國科學院地質與地球物理研究所，副研究員
2016/3-2022/3，中國科學院空天資訊創新研究院，助理研究員
2020/7-2022/1，澳門科技大學，博士後

研究領域

高光譜遙感資料處理與分析，遙感地質與深空探測

科研專案

1. 國家自然科學基金，火星克裡斯平原古代水環境演變歷史研究（42172265），2022/01-2025/12，主持
2. 國家自然科學基金，火星南部高地典型流域含水礦物高光譜反演與成因機制研究（41702354），2018/01-2020/12，主持
3. 澳門科技大學月球與行星科學實驗室開放課題，火星與地球類比區河網流域遙感探測與比較研究（039/2013/A2），2017/01-2018/12，主持

期刊論文

- [1] **Gou, S.**, Yue, Z., Di, K., Bugiolacchi, R., Wan, W., Yang, M., and Ye, L., Geologically old but freshly exposed rock fragments encountered by Yutu-2 rover. *Journal of Geophysical Research: Planets*, 2021. 126(3): e2020JE006565.
- [2] **Gou, S.**, Yue, Z., Di, K., Bugiolacchi, R., Zhu, M.-H., Pinet, P., and Cai, Z., Mare basalt flooding events surrounding Chang'e-4 landing site as revealed by Zhinyu crater ejecta. *Icarus*, 2021. 360: 114370.
- [3] **Gou, S.**, Yue, Z., Di, K., Cai, Z., Liu, Z., and Niu, S., Absolute model age of lunar Finsen crater and geologic implications. *Icarus*, 2021. 354: 114046.
- [4] **Gou, S.**, Di, K., Yue, Z., Liu, Z., He, Z., Xu, R., Liu, B., Peng, M., Wan, W., Wang, Y., and Liu, J., Forsteritic olivine and magnesium-rich orthopyroxene materials measured by Chang'e-4 rover. *Icarus*, 2020. 345: 113776.
- [5] **Gou, S.**, Yue, Z., Di, K., Wan, W., Liu, Z., Liu, B., Peng, M., Wang, Y., He, Z., and Xu, R., In situ spectral measurements of space weathering by Chang'e-4 rover. *Earth and Planetary Science Letters*, 2020. 535: 116117.
- [6] **Gou, S.**, Yue, Z., Di, K., Wang, J., Wan, W., Liu, Z., Liu, B., Peng, M., Wang, Y., He, Z., and Xu, R., Impact melt breccia and surrounding regolith measured by Chang'e-4 rover. *Earth and Planetary Science Letters*, 2020. 544: 116378.
- [7] **Gou, S.**, Di, K., Yue, Z., Liu, Z., He, Z., Xu, R., Lin, H., Liu, B., Peng, M., Wan, W., Wang, Y., and Liu, J., Lunar deep materials observed by Chang'e-4 rover. *Earth and Planetary Science Letters*, 2019. 528: 115829.
- [8] **Gou, S.**, Yue, Z., Di, K., and Xu, Y., Comparative study between rivers in Tarim Basin in northwest China and Evros Vallis on Mars. *Icarus*, 2019. 328: 127-140.
- [9] **Gou, S.**, Yue, Z., Di, K., and Liu, Z., A global catalogue of Ceres impact craters ≥ 1 km and preliminary analysis. *Icarus*, 2018. 302: 296-307.
- [10] **Gou, S.**, Yue, Z., Di, K., Wang, J., Mineral abundances and different levels of alteration around Mawrth Vallis, Mars. *Geoscience Frontiers*, 2015, 6: 741-758.

Sheng GOU Resume

Education backgrounds

2011/09 - 2016/01, University of Chinese Academy of Sciences, Cartography and Geographic Information System, Ph.D.

2014/04 - 2015/07, French National Research Center, Research Institute in Astrophysics and Planetology, visiting Ph.D candidate

2008/09 - 2011/07, Chengdu University of Technology, Applied Mathematics, Master

2004/09 - 2008/07, Chengdu University of Technology, Information and Computing Science, Bachelor

Work experiences

2022/04-present, Associate Researcher, Institute of Geology and Geophysics, Chinese Academy of Sciences

2016/03-2022/03, Assistant Researcher, Aerospace Information Research Institute, Chinese Academy of Sciences

2020/07-2022/01, Postdoctoral Research Fellow, Macau University of Science and Technology

Research fields

Hyperspectral data processing and analysis, remote sensing geology and deep space exploration

Research projects

1. National Natural Science Foundation of China. Evolution history of paleo-water environment in the Chryse Planitia, Mars. 2022/01-2025/12. PI
2. National Natural Science Foundation of China. Hyperspectral retrieval and forming mechanism of aqueous minerals within representative drainage basins on Martian southern highlands. 2018/01-2020/12. PI
3. Open Project of Lunar and Planetary Science Laboratory of Macau University of Science and Technology. Remote sensing detection and comparative study on valley networks between Mars and Earth. 2017/01-2018/12. PI

Peer-reviewed papers

- [1] **Gou, S.**, Yue, Z., Di, K., Bugiolacchi, R., Wan, W., Yang, M., and Ye, L., Geologically old but freshly exposed rock fragments encountered by Yutu-2 rover. *Journal of Geophysical Research: Planets*, 2021. 126(3): e2020JE006565.
- [2] **Gou, S.**, Yue, Z., Di, K., Bugiolacchi, R., Zhu, M.-H., Pinet, P., and Cai, Z., Mare basalt flooding events surrounding Chang'e-4 landing site as revealed by Zhinyu crater ejecta. *Icarus*, 2021. 360: 114370.
- [3] **Gou, S.**, Yue, Z., Di, K., Cai, Z., Liu, Z., and Niu, S., Absolute model age of lunar Finsen crater and geologic implications. *Icarus*, 2021. 354: 114046.
- [4] **Gou, S.**, Di, K., Yue, Z., Liu, Z., He, Z., Xu, R., Liu, B., Peng, M., Wan, W., Wang, Y., and Liu, J., Forsteritic olivine and magnesium-rich orthopyroxene materials measured by Chang'e-4 rover. *Icarus*, 2020. 345: 113776.
- [5] **Gou, S.**, Yue, Z., Di, K., Wan, W., Liu, Z., Liu, B., Peng, M., Wang, Y., He, Z., and Xu, R., In situ spectral measurements of space weathering by Chang'e-4 rover. *Earth and Planetary Science Letters*, 2020. 535: 116117.
- [6] **Gou, S.**, Yue, Z., Di, K., Wang, J., Wan, W., Liu, Z., Liu, B., Peng, M., Wang, Y., He, Z., and Xu, R., Impact melt breccia and surrounding regolith measured by Chang'e-4 rover. *Earth and Planetary Science Letters*, 2020. 544: 116378.
- [7] **Gou, S.**, Di, K., Yue, Z., Liu, Z., He, Z., Xu, R., Lin, H., Liu, B., Peng, M., Wan, W., Wang, Y., and Liu, J., Lunar deep materials observed by Chang'e-4 rover. *Earth and Planetary Science Letters*, 2019. 528: 115829.
- [8] **Gou, S.**, Yue, Z., Di, K., and Xu, Y., Comparative study between rivers in Tarim Basin in northwest China and Evros Vallis on Mars. *Icarus*, 2019. 328: 127-140.
- [9] **Gou, S.**, Yue, Z., Di, K., and Liu, Z., A global catalogue of Ceres impact craters ≥ 1 km and preliminary analysis. *Icarus*, 2018. 302: 296-307.
- [10] **Gou, S.**, Yue, Z., Di, K., Wang, J., Mineral abundances and different levels of alteration around Mawrth Vallis, Mars. *Geoscience Frontiers*, 2015. 6: 741-758.