

# Pengyue Wang

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Research field: Observations, compositional, and physical characterization of asteroids

Asteroid-meteorite connections



## SHORT BIO

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I completed my Ph.D. degree at Macau University of Science and Technology under the guidance of Prof. Zhang Xiaoping and Wu Yunzhao in Jun, 2024. My doctoral research direction is the spectral analysis of asteroids in Solar System. Specifically, I developed a new inversion model of asteroids based on reflectance spectra and applied this model to some near-Earth asteroids with potential impact threat to Earth. The research results are crucial for the development of near-Earth object defense plans. Following the completion of my Ph.D, I was offered a postdoctoral researcher position at the State Key Laboratory of Planetary Sciences in Macau. Collaborating with Prof. Hui Manto, I have continued my research on asteroids.

## EDUCATIONAL EXPERIENCE

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Bachelor: ShiHeZi University.

Supervisor: Prof. Wei Huang Sep 2015-Jun 2019

Master: Macau University of Science and Technology, State Key Laboratory of Lunar and Planetary Sciences.

Supervisor: Prof. Roberto Bugiolacchi. Sep 2019-Jun 2021

PhD: Macau University of Science and Technology, State Key Laboratory of Lunar and Planetary Sciences.

Supervisor: Prof. XiaoPing Zhang and YunZhao Wu. Sep 2021-Jun 2024

## PUBLICATIONS (FIRST AUTHOR)

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**Wang, P.**, Cloutis, E., Su, Y., and Hui, M. (2025), Identifying LL chondrite near-Earth asteroids using LL chondrite reflectance spectra. *The Astrophysical Journal Letters*. Under review.

**Wang, P.**, Cloutis, E., Su, Y., and Zhang, P. (2025), Quantitative analysis of spectral properties and composition of primitive achondrites (acapulcoites, lodranites and winonaites). *Icarus*, 425, 116320, <https://doi.org/10.1016/j.icarus.2024.116320>.

**Wang, P.**, Cloutis, E., Zhang, X., Su, Y. and Wu, Y. (2023), Quantitative mineral analysis of (99942) Apophis using reflectance spectroscopy. *Meteorit Planet Sci.* <https://doi.org/10.1111/maps.14077>.

**Wang, P.**, Bugiolacchi, R., & Su, Y. (2023). A new compositional, mineralogical and chronological study of the Leibnitz crater within the SPA basin. *Planetary and Space Science*, 227, 105640. <https://doi.org/10.1016/j.pss.2023.105640>.

**Wang, P.**, Cloutis, E., Zhang, Q., & Wu, Y. (2022). Quantitative mineral analysis of ordinary chondrites and primitive achondrites using reflectance spectroscopy. *Journal of Geophysical Research: Planets*, 127, e2022JE007571. <https://doi.org/10.1029/2022JE007571> 2022.12.20.

**P. Wang**, T. Xu, Y. Li and Y. Wu. (2023). Mineral compositions of Chang'e-4 landing region from Yutu-2 rover's traverse. 11th European Lunar Symposium.

## **WORK EXPERIENCE**

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Macau University of Science and Technology, State Key Laboratory of Lunar and Planetary Sciences.  
Oct 2024 – Sep 2025

## **AWARDS**

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|---|-----------|
| Macao University of Science and Technology PhD Scholarship    | 2021-2024 |
| Macao University of Science and Technology Master Scholarship | 2019-2021 |