Wen-Han ZHOU (周文翰)

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The University of Tokyo, Tokyo, Japan
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Homepage: http://wh-zhou.github.io

EMPLOYMENT

The University of Tokyo

Apr. 2025 —

Tokyo, Japan

JSPS Postdoc Fellow (host: Seiji Sugita)

EDUCATION

Observatoire de la Côte d'Azur

Jan. 2022 — Dec. 2024

Nice, France

Ph.D. in Astrophysics (supervisor: Patrick Michel)

University of Hong Kong Sep. 2018 — Apr. 2021

Hong Kong, China

M.Phil. in Physics (supervisor: Meng Su)

Wuhan University Sep. 2014 — June 2018

Wuhan, China

B.Eng. in Engineering

RESEARCH INTEREST

Small bodies; Dynamics; Planetary system evolution.

FIRST-AUTHOR PUBLICATIONS (including 2 sole-author papers)

- 1. **Zhou, W. H.**, Michel, P., Delbo, M., Wang, W., <u>Wang, Y.</u>, Durech, J., & Hanus, J. (2025), Confined tumbling state as the origin of the excess of slowly rotating asteroids. <u>Nature Astronomy</u>, <u>1-8</u>.
 - Highlight: Explain the observed period-diameter distribution of asteroids; supervised a master student.
- 2. **Zhou, W. H.** (2024), The binary Yarkovsky effect on the primary asteroid with application to singly synchronous binary asteroids. <u>A&A Letters</u>, <u>692</u>, <u>L2</u>.
 - Highlight: Complete the basic theoretical framework of the "Binary Yarkovsky" effect.
- 3. **Zhou, W. H.**, Vokroulicky, D., Kanamaru, M., Agrusa, H, Delbo, P. Pravec, M., & Michel, P. (2024). The Yarkovsky effect on the long-term evolution of binary asteroids. *ApJL*, *968*, *L3*. *Highlight: Discover the "Binary Yarkovsky" effect*.
- 4. **Zhou, W. H.**, Liu, S., & Lin, D. C. (2024). White Dwarf Magnetospheres: Shielding Volatile Content of Icy Objects and Implications for Volatile Pollution Scarcity. <u>A&A</u>, 687, <u>A107</u>.
- 5. **Zhou, W. H.**, & Michel, P. (2024). A semi-analytical thermal model for craters with application to the crater-induced YORP effect. <u>A&A</u>, 682, <u>A130</u>.
- 6. **Zhou, W. H.**, Zhang, Y., Yan, X., & Michel, P. (2022). The crater-induced YORP effect. A&A, 668, A70.
- 7. **Zhou, W. H.**, Liu, S. F., Zhang, Y., & Lin, D. N. (2022). Observable tests for the light-sail scenario of interstellar objects. *A&A*, 667, *A108*.
- 8. **Zhou, W. H.** (2020). 'Oumuamua's Rotation with the Mechanical Torque Produced by Interstellar Medium. *ApJ*, 899(1), 42.

CO-AUTHORED PUBLICATIONS

- 9. Athanasopoulos, D., Hanuš, J., Avdellidou, C.,... **Zhou, W. H.** & Agrusa, H. (2024). Spin states of X-complex asteroids in the inner main belt-I. Investigating Athor and Zita collisional families. <u>A&A</u>, 690, <u>A215</u>.
- 10.Ren, B. B., Rebollido, I., Choquet, É., **Zhou, W. H.**, Perrin, M. D., Schneider, G., ... & Soummer, R. (2023). Debris Disk Color with the Hubble Space Telescope. <u>A&A</u>, <u>672</u>, <u>A114</u>.

VISITING EXPERIENCE

Westlake University (host: Douglas N.C. Lin)	Mar. 2025
Hangzhou, China	
The University of Tokyo (host: Seiji Sugita)	Aug. 2024 - Sep. 2024
Tokyo, Japan	
Charles University (host: David Vokrouhlický)	May 2024 - Jun. 2024
Prague, Czech Republic	
CONFEDENCES AVODIZATIONS (SEMINADS	
CONFERENCES/WORKSHOPS/SEMINARS	7.5
Group Seminar	Mar. 2025
School of Astronomy and Space Science, NJU, China	
Group Seminar	Mar. 2025
Department of Astronomy, ZJU, China	F 1 2025
Group Seminar	Feb. 2025
Shanghai Astronomical Observatory, CAS, China	D 2024
Group Seminar	Dec. 2024
School of Astronomy and Space Science, NJU, China	2.224
Group Seminar	Oct. 2024
Center for Astrophysics, Harvard, USA	~
EPSC2024	Sep. 2024
Berlin, Germany	~
Group Seminar	Sep. 2024
National Astronomical Observatory of Japan, Japan	~
Visitor Talk	Sep. 2024
Earth-Life Science Institute, Tokyo Tech, Japan	~
Group seminar	Sep. 2024
Department of Earth and planetary science, UTokyo, Japan	
Group seminar	Aug. 2024
Department of Space and Planetary Sciences, Sun Yat-Sen University, China	
Group seminar	Aug. 2024
Department of Earth and space sciences, SUSTech, China	
Dynamics and physics in the solar system	Jun. 2024
University of Pisa, Pisa, Italy	4 2024
HERA International Workshop 2024	Apr. 2024
ESTEC, Noordwijk, Netherland	
Winter School on small bodies in the Solar System	Feb. 2024
Ecole de Physique des Houches, Les Houches, France	
HERA International Workshop 2023	Oct. 2023
ESTEC, Noordwijk, Netherland	
4th Workshop on Thermal Models for Planetary Science	Apr. 2023
ESTEC, Noordwijk, Netherland	
Workshop on applications of radar instruments in planetary science	Jan. 2023
Beijing, China (online)	α 2022
EPSC Meeting 2022	Sep. 2022
Granada, Spain	1.5
HERA International Workshop 2022	May. 2022
Nice, France	~ ^^~
EPSC-DPS Joint Meeting 2019	Sep. 2019
Geneva, Switzerland	D 4010
International Symposium on Asteroids and Comets Gravity and Interiors	Dec. 2018
China	

AWA DDG

JSPS Fellowship	<i>Apr.</i> 2025 – Mar. 2027
University of Tokyo	
ARC-Space Joint Research Program	Oct. 2024
The University of Aizu	
Early Career Professional and Student bursaries	Sep. 2024
EPSC Meeting 2024	
Outgoing Mobility Aid For the Academic Year 2023-2024	Jun. 2024
University Côte d'Azur	
Early Career Researcher Travel Support	Apr. 2023
4th Workshop on Thermal Models for Planetary Science	
Early Career Professional and Student bursaries	Sep. 2022
EPSC Meeting 2022	
Postgraduate Fellowship	Sep. 2018 – Aug. 2020
University of Hong Kong	
University Scholarship	2017
Wuhan University	
PROFESSIONAL SERVICE	

Reviewer for the Chinese version of the book Fundamental Planetary Science: Physics Chemistry and Habitability

TEACHING EXPERIENCE

University of Hong Kong	Sep. 2018 – Aug. 2020
Teaching assistant (supervisor: Man Kit Yip)	
STUDENT MENTORING	
Zehua Qi (PhD student)	2025
Nanjing University, Nanjing, China	
Yining Zhang (PhD student)	2025
Nanjing University, Nanjing, China	
Thomas Dyer (Master student)	2025
University of Leicester, Leicester, UK	
Gabriele Bertinelli (Master student)	2025
Observatoire de la Côte d'Azur, Nice, France	
Bonny Y. Wang (Master student)	2023
Center for Computational Astrophysics, New York, USA	
Project: Identifying the gap in the rotation distribution of asteroids by the machine lear	ning method

REFERENCES

Patrick Michel (michelp@oca.eu)

Observatoire de la Côte d'Azur, France

Marco Delbo (delbo@oca.eu)

Observatoire de la Côte d'Azur, France

David Vokrouhlický (vokrouhl@cesnet.cz)

Charles University, Czech

Douglas N.C. Lin (lin@ucolick.org)

UC Santa Cruz, USA