

Wenhan ZHOU

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EDUCATION

Université de la Côte d’Azur, Observatoire de la Côte d’Azur	Nice, France
Ph.D. in Astrophysics (supervisor: Patrick Michel)	Jan. 2022— Dec. 2024(<i>expected</i>)
University of Hong Kong	Hong Kong, China
M.Phil. in Physics (supervisor: Meng Su)	Sep. 2018 – Apr. 2021
Wuhan University	Wuhan, China
B.Eng. in Engineering	Sep. 2014 - June 2018

VISITING EXPERIENCE

The University of Tokyo	Tokyo, Japan
Visiting scholar (host: Seiji Sugita)	Aug. 2024 - Sep. 2024
Charles University	Prague, Czech Republic
Visiting scholar (host: David Vokrouhlický)	May 2024 - Jun. 2024

PUBLICATIONS (8 first-author papers including 2 sole-author papers)

1. **Zhou, W. H.**, The binary Yarkovsky effect on the primary asteroid with application to singly synchronous binary asteroids (under revision in *A&A Letters*).
Highlight: Complete the basic theoretical framework of the “Binary Yarkovsky” effect.
2. **Zhou, W. H.**, Michel, P., Delbo, M., Wang, W., Wang, Y., Durech, J., & Hanus, J., Confined tumbling state as the origin of the excess of slowly rotating asteroids (accepted by *Nature Astronomy*).
Highlight: Explain the observed period-diameter distribution of asteroids; supervised a master student.
3. **Zhou, W. H.**, Vokrouhlicky, D., Kanamaru, M., Agrusa, H., Delbo, P., Pravec, M., & Michel, P. (2024). The Yarkovsky effect on the long-term evolution of binary asteroids. *Astrophysical Journal Letters*, 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. *Astronomy & Astrophysics*, 687, A107.
5. **Zhou, W. H.**, & Michel, P. (2024). A semi-analytical thermal model for craters with application to the crater-induced YORP effect. *Astronomy & Astrophysics*, 682, A130.
6. **Zhou, W. H.**, Zhang, Y., Yan, X., & Michel, P. (2022). The crater-induced YORP effect. *Astronomy & Astrophysics*, 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. *Astronomy & Astrophysics*, 667, A108.
8. **Zhou, W. H.** (2020). ‘Oumuamua’s Rotation with the Mechanical Torque Produced by Interstellar Medium. *The Astrophysical Journal*, 899(1), 42.
9. 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. *Astronomy & Astrophysics*, 672, A114.

CONFERENCES/WORKSHOPS/SEMINARS

Group seminar	Oct. 2024
Center for Astrophysics, Harvard, the USA	
EPSC Meeting 2024	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	<i>Aug. 2024</i>
Department of Space and Planetary Sciences, Sun Yat-Sen University, China	
Group seminar	<i>Aug. 2024</i>
Department of Earth and space sciences, SUSTech, China	
Dynamics and physics in the solar system	<i>Jun. 2024</i>
University of Pisa, Pisa, Italy	
HERA International Workshop 2024	<i>Apr. 2024</i>
ESTEC, Noordwijk, Netherland	
Winter School on small bodies in the Solar System	<i>Feb. 2024</i>
Ecole de Physique des Houches, Les Houches, France	
HERA International Workshop 2023	<i>Oct. 2023</i>
ESTEC, Noordwijk, Netherland	
4th Workshop on Thermal Models for Planetary Science	<i>Apr. 2023</i>
ESTEC, Noordwijk, Netherland	
Workshop on applications of radar instruments in planetary science	<i>Jan. 2023</i>
Beijing, China (online)	
EPSC Meeting 2022	<i>Sep. 2022</i>
Granada, Spain	
HERA International Workshop 2022	<i>May. 2022</i>
Nice, France	
EPSC-DPS Joint Meeting 2019	<i>Sep. 2019</i>
Geneva, Switzerland	
International Symposium on Asteroids and Comets Gravity and Interiors	<i>Dec. 2018</i>
China	

AWARDS

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

PROFESSIONAL SERVICE

Dynamics group member in HEAR space mission team
Reviewer for Icarus
Reviewer for the Chinese version of the book <i>Fundamental Planetary Science: Physics Chemistry and Habitability</i>

TEACHING EXPERIENCE

University of Hong Kong	Hong Kong, China
Teaching assistant (supervisor: Man Kit Yip)	<i>Sep. 2018 – Aug. 2020</i>

STUDENT MENTORING

Bonny Y. Wang (Master student)	<i>2023</i>
Carnegie Mellon University; Center for Computational Astrophysics	
<i>Identifying the gap in the rotation distribution of asteroids by a semi-supervised machine learning method</i>	