

Wenhan ZHOU

Observatoire de la Côte d'Azur, Nice, France

Email: wenhan.zhou@oca.eu

Tel: +33 0767687223

Updated June 19, 2024

EDUCATION

Université de la Côte d'Azur, Observatoire de la Côte d'Azur	Nice, France
Ph.D. in Astrophysics (supervisor: Patrick Michel)	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 Energy and Power Engineering	Sep. 2014 - June 2018

EXPERIENCE

The University of Tokyo	Tokyo, Japan
Visiting scholar (host: Seiji Sugita)	Aug. 2024 - Sep. 2024 (<i>expected</i>)
Charles University	Prague, Czech Republic
Visiting scholar (host: David Vokrouhlický)	May 2024 - Jun. 2024
Origin Space Ltd.	Beijing, China
Research assistant (supervisor: Meng Su)	Jun. 2021 - Dec. 2021
University of Hong Kong	Hong Kong, China
Teaching assistant (supervisor: Man Kit Yip)	Sep. 2018 – Aug. 2020

PUBLICATIONS (7 first-author papers including 1 sole-author paper)

- Zhou, W. H.**, Michel, P., Delbo, M., Wang, W., Wang, Y., Durech, J., & Hanus, J. (2024). Confined tumbling state as the origin of the excess of slowly rotating asteroids. *Nature Astronomy* (under revision).
Highlight: Reveals the rotational dynamics of slow rotators; supervised a master student.
- 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: Provides new insight on long term dynamics of binary asteroid systems.
- 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.
- 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.
- Zhou, W. H.**, Zhang, Y., Yan, X., & Michel, P. (2022). The crater-induced YORP effect. *Astronomy & Astrophysics*, 668, A70.
- 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.
- Zhou, W. H.** (2020). 'Oumuamua's Rotation with the Mechanical Torque Produced by Interstellar Medium. *The Astrophysical Journal*, 899(1), 42.
- 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 &*

CONFERENCES/WORKSHOPS

Dynamics and physics in the solar system University of Pisa, Pisa, Italy	<i>Jun. 2024</i>
➤ Oral presentation: The Yarkovsky effect on binary asteroids.	
HERA International Workshop 2024 ESTEC, Noordwijk, Netherland	<i>Apr. 2024</i>
Winter School on small bodies in the Solar System Ecole de Physique des Houches, Les Houches, France	<i>Oct. 2023</i>
HERA International Workshop 2023 ESTEC, Noordwijk, Netherland	<i>Oct. 2023</i>
4th Workshop on Thermal Models for Planetary Science ESTEC, Noordwijk, Netherland	<i>Apr. 2023</i>
➤ Oral presentation: A Semi-analytical Thermal Model for Craters with Application to the Crater-induced YORP Effect.	
Workshop on applications of radar instruments in planetary science Beijing, China (online)	<i>Jan. 2023</i>
➤ Oral presentation: The YORP and Yarkovsky effects in Solar system asteroids.	
EPSC Meeting 2022 Granada, Spain	<i>Sep. 2022</i>
➤ Oral presentation: The crater-induced YORP effect.	
HERA International Workshop 2022 Nice, France	<i>May. 2022</i>
EPSC-DPS Joint Meeting 2019 Geneva, Switzerland	<i>Sep. 2019</i>
➤ Poster: Interstellar Object Rotation with the Mechanical Torque Produced by Interstellar Medium	
International Symposium on Asteroids and Comets Gravity and Interiors China	<i>Dec. 2018</i>
➤ Oral presentation: Discovery of Interstellar Object ‘Oumuamua and Future Astronomical Detection	

AWARDS

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

STUDENT SUPERVISION

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