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) — *Dec. 2024 (expected)*

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*

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*

REFERENCES

Patrick Michel (michelp@oca.eu)
Observatoire de la Côte d'Azur
Marco Delbo (delbo@oca.eu)
Observatoire de la Côte d'Azur
Douglas N.C. Lin (dnlin@ucsc.edu)
University of California, Santa Cruz
David Vokrouhlický (vokrouhl@cesnet.cz)
Charles University

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 (submitted).
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.**, Vokroulicky, 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 a new physical mechanism on the long term dynamics of binary

asteroid systems.

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

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 *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

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)

EPSC Meeting 2022 *Sep. 2022*
Granada, Spain

HERA International Workshop 2022 *May. 2022*
Nice, France

EPSC-DPS Joint Meeting 2019 *Sep. 2019*
Geneva, Switzerland

International Symposium on Asteroids and Comets Gravity and Interiors *Dec. 2018*
China

AWARDS

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

STUDENT SUPERVISION

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