Hua-Shan Shih / 施驊珊

Personal Information

E-mail

- hs.gaga.shih@gmail.com

Current Location

National Central University (NCU), Taiwan
 (No. 300, Zhongda Rd., Zhongli District, Taoyuan City 32001, Taiwan)

Education

Ph.D. in Space Science and Engineering (Sep. 2018 – current)

- National Central University (NCU), Taiwan
- Advisor: Prof. Wing-Huen Ip

M.A. in Space Science (Sep. 2016 – June 2018)

- National Central University (NCU), Taiwan
- Advisor: Prof. Wing-Huen Ip
- Thesis: The Seasonal Evolution of the Atmosphere of Pluto and Other Dwarf Planets

B.S. in Atmospheric Sciences (Sep. 2011 – June 2015)

- Advisors: Prof. Wing-Huen Ip & Prof. Tang-Huang Lin
- National Central University (NCU), Taiwan

Awards & Fellowship

Annual Meeting of the Physical Society of Taiwan 2022

- Honorable Mention Winner of the Poster Competition
- Topic: On Non-thermal Escape of Hot Oxygen Atoms from the atmosphere of Callisto
 Annual Meeting of the Physical Society of Taiwan 2020
- Honorable Mention Winner of the Poster Competition
- Topic: The Icing on Saturnian Rings in the Past and Present

Annual Meeting of the Physical Society of Taiwan 2019

- Honorable Mention Winner of the Poster Competition
- Topic: The Long-Term Evolution of Pluto's Seasonal Atmosphere

Annual Meeting of the Physical Society of Taiwan 2018

Honorable Mention Winner of the Poster Competition

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- Topic: The Atmosphere of Pluto and Other Icy Dwarf Planets
 College Student Research Fellowship, National Science Council, Taiwan (2014 2015)
- Advisor: Prof. Wing-Huen Ip
- Project: The Nucleus Model of C/2012 S1 (ISON)

Research Experience

Graduate Research Assistant (Aug. 2016 – current)

- Institute of Astronomy, National Central University, Taiwan
- Advisor: Prof. Wing-Huen Ip
- Topic: Particles dynamic on planetary atmosphere, thermal model of planets and satellites, ejecta from the impact event of small objects, etc.

Visiting Scholar (Summer in 2019)

- Southwest Research Institute, Boulder, United States
- Advisor: Dr. Leslie A. Young
- Topic: Interaction between Pluto's Atmosphere and Surface

Full-time Research Assistant (Mar. 2016 – July 2016)

- Institute of Space Science, National Central University, Taiwan
- PI: Prof. Chien-Ming Huang
- Project: Investigation the Ionosphere during Magnetic Substorm through C/NOFS
 Data

Full-time Research Assistant (July 2015 – Dec. 2015)

- Environmental Remote Sensing Laboratory, Center for Space and Remote Sensing Research, National Central University, Taiwan
- PI: Prof. Tang-Huang Lin
- Project: Taiwan Integrated Research Program on Climate Change Adaptation
 Technology

Programming Language

Matlab, C, Python

Teaching & Outreach

Guest lecture, High School Astronomy Camp by Taipei Astronomical Museum (Oct 2022)

- Topic: My Research Odyssey: A Journey Through Planetary Science

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Teaching Assistant in Dept. of Space Science and Engineering, NCU (Spring 2022)

- SS3026: Introduction to Lunar Science

Teaching Assistant in Dept. of Space Science and Engineering, NCU (Fall 2021)

SS3025: Introduction to Planetary Science

Teaching Assistant in Dept. of Space Science and Engineering, NCU (Spring 2021)

- SS3026: Introduction to Lunar Science

Teaching Assistant in Dept. of Space Science and Engineering, NCU (Fall 2020)

SS3025: Introduction to Planetary Science

Teaching Assistant in Dept. of Atmospheric Sciences, NCU (Fall 2019)

AP3057: Introduction to Planetary Science I

Teaching Assistant in Dept. of Atmosphere, NCU (Spring 2018)

AP2052: Computer Programming and Graphics II

Invited Talk

Astrophysics Lunch Seminar (Apr. 2022)

- National Center for Theoretical Science (NCTS), Taipei, Taiwan
- Topic: Dynamics and formation of the Hydrogen Plume in the Vicinity of the Saturn's
 Ring

Lunch Talk (Aug. 2018)

- Academia Sinica Institute of Astronomy and Astrophysics (ASIAA), Taipei, Taiwan
- Topic: The Seasonal Evolution of the Atmospheres of Pluto and Other Dwarf Planets

Conferences & Workshop

2023:

- Astronomical Society of the Republic of China 2023, Kaohsiung, Taiwan (May 2023) -- Poster
- Annual Meeting of the Physical Society of Taiwan 2023, Tainan, Taiwan (Jan. 2023) -- Poster
 2022:
- Astronomical Society of the Republic of China 2022, Chiayi, Taiwan (Sep. 2022) -- Poster
- The 19th Annual Meeting of the Asia Oceania Geosciences Society, Virtual (Aug. 2022) -- Poster
- Annual Meeting of the Physical Society of Taiwan 2022, Tainan, Taiwan (Jan. 2022) -- Poster
 2021:
- The 18th Annual Meeting of the Asia Oceania Geosciences Society, Virtual (Aug. 2021) -- Poster

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2020:

- Astronomical Society of the Republic of China 2020, Taipei, Taiwan (Sep. 2020) -- Poster
- Annual Meeting of the Physical Society of Taiwan 2020, Pingtung, Taiwan (Jan. 2020) -- Poster
 2019:
- The 16th Annual Meeting of the Asia Oceania Geosciences Society, Singapore (Aug. 2019) Poster
- Pluto System After New Horizons, United States (July 2019) -- Poster
- Astronomical Society of the Republic of China 2019, Taichung, Taiwan (May 2019) -- Poster
- Planetary Atmospheric Dynamics From Mars, Titan to Pluto, Taiwan (May 2019) -- Oral
- Annual Meeting of the Physical Society of Taiwan 2019, Hsinchu, Taiwan (Jan. 2019) -- Poster
 2018:
- Serendipities in the Solar System and Beyond, Taiwan (July 2018) -- Poster
- International Symposium on Lunar & Planetary Science 2018, Macao (June 2018) -- Oral
- Astronomical Society of the Republic of China 2018, Kinmen, Taiwan (May 2018) -- Poster
- Space Exploration and Scientific Observations with CubeSats, Taiwan (Mar 2018) -- Oral
- Annual Meeting of the Physical Society of Taiwan 2018, Taipei, Taiwan (Jan. 2018) -- Poster
 2017:
- Asian-Pacific Regional IAU Meeting 2017, Taipei, Taiwan (July 2017) -- Poster
- Serendipities in the Solar System and Beyond, Taoyuan, Taiwan (July 2017) -- Poster
- Astronomical Society of the Republic of China 2017, Miaoli, Taiwan (May 2017) -- Poster
- Physical Society of the Republic of China 2017, Taipei, Taiwan (Jan. 2017) -- Poster
 2016:
- Physical Society of the Republic of China 2016, Kaohsiung, Taiwan (Jan. 2016) -- Poster
 2015:
- Climate Change in Taiwan for Adaptation Technology, Taoyuan, Taiwan (Sep. 2015) -- Oral

Publications

Hua-Shan Shih & Wing-Huen Ip, 2023. *Infalling of nano-dust because of air drag on Uranus*. Planetary and Space Science, 237, 105782.

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