

XING WANG

📍 Avenida Wai Long, Taipa, Macau ✉ 2009853PSE30001@student.must.edu.mo ☎ +853 63993699

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EDUCATION

Macau University of Science and Technology

Ph.D. of Earth and Planetary Science

University of Chinese Academy of Sciences, National Astronomical Observatories of China

Master of Astrophysics

- Awards: Honorary title of merit students for the academic Year 2017-2018 (top 5%)

Huazhong Agricultural University

Bachelor of Science in Mathematics, major in Information and Computing Science

- Awards: Honorary title of study activist for the academic Year 2013-2014 (top 2%), 2nd Prize for Outstanding Academic Achievement in the First Semester for the academic Year 2014-2015 (top 5%)

Macao, China

09/2020 -Present

Beijing, China

09/2016 - 06/2020

Wuhan, China

09/2012 - 06/2016

PUBLICATION

1. Jing Wang, Jiang Yu, Xiaojun Xu, Jun Cui, Jinbin Cao, Yudong Ye, Qi Xu, Ming Wang, Zilu Zhou, Qing Chang, Jiaying Xu, and **Xing Wang** (2021). *MAVEN observations of magnetic reconnection at Martian induced magnetopause* Geophysical Research Letters, 48, e2021GL095426. <https://doi.org/10.1029/2021GL095426>
2. Qi Xu, Xiaojun Xu, Tielong Zhang, Zhaojin Rong, Ming Wang, Jing Wang, Yudong Ye, Zhilu Zhou, Qing Chang, Jiaying Xu, **Xing Wang**, and Lei Luo (2021). *The Venus Express observation of Venus' induced magnetosphere boundary at solar maximum* A&A 652 A113 (2021) DOI: 10.1051/0004-6361/202141391
3. **Xing Wang**, Yuan Lian, Jun Cui, Mark Richardson, Zhaopeng Wu, and Jing Li(2020). *Temperature Variability in Titan's Upper Atmosphere:The Role of Wave Dissipation*. Journal of Geophysical Research: Planets,125, e2019JE006163.
4. **Xing Wang**, Sun X, Lv W. *Orbital Stability of Generalized Choquard Equation*[J]. Boundary Value Problems, 2016, 2016(1):190.
5. FU Jin-ming, Yi Xu-ming Tan Wei-wei, **Xing Wang**, Xu Yu-fan, Chen Xuan. *SAR IMAGE SEGMENTATION BASED ON IMPROVED LEVEL SET C-V MODEL* J.of Math. 2016.3

PROFESSIONAL EXPERIENCE & LEADERSHIP ACTIVITIES

Researched the Temperature Profile of Titan's Upper Atmosphere

Team Leader

Beijing

06/2017

Advisor: **Jun Cui** (Professor of School of Astronomy & Space Science, University of Chinese Academy of Sciences)

-Calculated the average temperature profile corresponding to a given the density profile of nitrogen based on hydrostatic equilibrium.

Observed the Earth by the Radial Velocity Method

Team Leader

Beijing

09/2016- 10/2016

Advisor: **Jifeng Liu** (Professor of School of Astronomy&Space Science, University of Chinese Academy of Sciences)

-Analyzed the change in the position vector and the radial velocity of the eight planets in the solar system to the sun between 1945 and 2145 and the observation accuracy of the Earth by assuming that the observer observes the solar system at a distance of 10 pc and an angle of 45 degrees between the ecliptic.

Investigated the Influence of Korean Dramas on the College Students in Wuhan

Team leader

Wuhan

03/2015- 05/2015

Advisor: **Mingyue Guo** (Lecturer of Mathematics and Statistics Department, HZAU)

- Attended National Undergraduate Market Research and Analysis Contest;
- Investigated the influence of Korean dramas on the values, life concept and consumption concept of students through questionnaires.

Researched the Sound Principle of the Whistle and Improve the Configuration to Maximize its Sound

Team leader

Wuhan

10/2014-11/2014

-Attended 2014 Certificate Authority Cup International MATHEMATICAL CONTEST IN MODELING;
-Researched the sound dynamics in the whistle according to the aerodynamics theory and the theory of vortex and improved the structure of the whistle to maximize its sound by using MATLAB.

Researched the Rainfall and Temperature Regularity in Wuhan City

Wuhan

Advisor: **Jinming Fu** (Associated Professor of Mathematics and Statistics Department, HZAU)

- Established the mathematical model by using linear regression analysis, correlation analysis, wavelet analysis;
- Analyzed the interaction between rainfall and temperature in Wuhan by using the mathematical model.

CONFERENCE EXPERIENCE

1. The 4th International Conference on Lunar and Deep Space Exploration **Poster** *Zhuhai, 07/2019*
2. Attended USTC's first Planetary Sciences summer school *Hefei, 07/2019*
3. The 18th National Symposium on Terrestrial and Solar Physics **Presentation** *Xinning, 05/2019*
4. Symposium on Solar Activity and Energy Transfer Processes in Space Environments **Presentation** *Zhuhai, 11/2018*
5. Annual Meeting of Chinese Geoscience Union **Poster** *Beijing, 10/2018*
6. The 4th International Space Weather Conference **Member** *Beijing, 08/2017*
7. Attended Five-hundred-meter Aperture Spherical radio Telescope (FAST) summer school *Guiyang, 07/2016*

HONORS

- **3rd Prize** of 7th National Mathematics Competition (mathematics) for undergraduates students *11/2015*
- **2nd Prize** of 4rd Mathematics Competition (mathematics) for undergraduates students in Hubei province *11/2015*
- **2nd Prize** of Hubei province Branch of the 5th National Undergraduate Market Research and Analysis Contest *05/2015*
- Mathematical Contest In Modeling Certificate of Achievement, **Successful Participant** *01/2015*
- 2014 Certificate Authority Cup International MATHEMATICAL CONTEST IN MODELING CERTIFICATE OF ACHIEVEMENT, **Honorable Mention** *11/2014*
- **3rd Prize** of 6th National Mathematics Competition (mathematics) for undergraduates students *11/2014*
- **2nd Prize** of 3rd Mathematics Competition (mathematics) for undergraduates students in Hubei province *11/2014*

LANGUAGE, SKILLS, HOBBIES

- Language: Native speaker of Chinese (Mandarin), English;
- Skills: IDL, MATLAB, Python, C++, LaTeX;
- Hobbies: travel, movies (especially science fiction movies), music, photography.

HOME PAGES

- Homepage: <http://sengwong.top/about/>
- ORCID: <https://orcid.org/0000-0001-6369-4669>
- Researchgate: https://www.researchgate.net/profile/Xing_Wang14