
Dr. Junsheng Ding (丁君生)

Curriculum Vitae

Post Doctoral Fellow of The Hong Kong Polytechnic University

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EDUCATION

1. 2018-2023, PhD, Geodesy, University of Chinese Academy of Sciences, Beijing, China
2. 2018-2023, PhD, Geodesy, Shanghai Astronomical Observatory, CAS, Shanghai, China
3. 2014-2018, BSc, Geomatics Engineering, Chang'an University, Xi'an, China

RESEARCH INTERESTS

1. Satellite Navigation & Tropospheric Modeling
2. PPP-RTK Atmosphere Modeling & GNSS Meteorology

AWARD AND HONORS

1. Outstanding Graduates of Shanghai (2023)
2. National Scholarship for Doctoral Students (2022)
3. Zhu-Li-Yuehua Outstanding Doctoral Scholarship of CAS (2022)
4. First Class Academic Scholarship of UCAS (2021, 2022)
5. Merit Student of UCAS (2020, 2021, 2022, 2023)

EXPERIENCE

1. 2023.7-Present, Postdoctoral Fellow, The Hong Kong Polytechnic University, Hong Kong, China
2. 2019.9-2021.9, Graduate Assistant, Shanghai Astronomical Observatory, CAS, Shanghai, China
3. 2018.7-2018.8, Summer Trainee, National Institute of Metrology, China, Beijing, China
4. 2017.7-2017.8, Software testing intern, Trimble R&D Center in China, Trimble Inc., Xi'an, China

PUBLICATIONS

1. **Ding J.S.**, Chen J.P., Wang J.G. and Zhang Y.Z. (2023) Characteristic difference of tropospheric delay between Nevada Geodetic Laboratory products and NWM ray-tracing, *GPS Solutions*, doi: [10.1007/s10291-022-01385-2](https://doi.org/10.1007/s10291-022-01385-2). (SCI)
2. **Ding J.S.**, Chen J.P., Tang W.J. and Song Z.Y. (2022) Spatial-Temporal Variability of Global GNSS-Derived Precipitable Water Vapor (1994–2020) and Climate Implications, *Remote Sensing*, doi: [10.3390/rs14143493](https://doi.org/10.3390/rs14143493). (SCI)
3. **Ding J.S.**, Chen J.P. and Tang W.J. (2022) Increasing Trend of Precipitable Water Vapor in Antarctica and Greenland, China Satellite Navigation Conference 2022, *Lecture Notes in Electrical Engineering*, doi: [10.1007/978-981-19-2588-7_27](https://doi.org/10.1007/978-981-19-2588-7_27). (EI)
4. **Ding J.S.** and Chen J.P. (2021) Accuracy Variability of GNSS PWV in the Range of Small and Medium Scale Areas, China Satellite Navigation Conference, *CSNC 2021*, doi: [10.26914/c.cnkihy.2021.002146](https://doi.org/10.26914/c.cnkihy.2021.002146).
5. **Ding J.S.**, Chen J.P. and Wang J.G. (2020) Quality Control Method for ZTD Modeling Based on GNSS

Observation Data, *Journal of Astronautics*, doi:10.3873/j.issn.1000 1328.2020.09.010. (in Chinese) (EI)

6. **Ding J.S.** and Chen J.P. (2020) Assessment of Empirical Troposphere Model GPT3 Based on NGL's Global Troposphere Products, *Sensors*, doi:10.3390/s20133631. (SCI)
7. Song Z.Y., Chen J.P., Zhang Y.Z., Yu C., **Ding J.S.** (2023) Real-time Multi-GNSS Precise Point Positioning with Ambiguity Resolution Based on the BDS-3 Global Short-message Communication Function, *GPS Solutions*, doi:10.1007/s10291-023-01477-7. (SCI)
8. Chen J.P., Zhang Y.Z., Yu C. and **Ding J.S.** (2022) Processing Algorithms and Performance Evaluation of BDS RDSS Location Reporting Service, *Acta Geodaetica et Cartographica Sinica*. (in Chinese) (EI)
9. Tang W.J., Chen J.P., Yu C., **Ding J.S.** and Wang R.Y. (2021) A New Ground-based Pseudolite System Deployment Algorithm Based on MOPSO, *Sensors*, doi:10.3390/s21165364. (SCI)
10. Chen Q., Chen J.P., Yu C., Zhang Y.Z. and **Ding J.S.** (2020) Comparison of BDS Station Clock Short-term Prediction Models and their Applications in Precise Orbit Determination, *Chinese Astronomy and Astrophysics*, doi: 10.1016/j.chinastron.2020.05.008. (SCI)
11. Chen J.P., Wang J.G., Wang A.H., **Ding J.S.** and Zhang Y.Z. (2020) SHAtropE—A Regional Gridded ZTD Model for China and the Surrounding Areas, *Remote Sensing*, doi:10.3390/rs12010165. (SCI)
12. Cui J., Chen J.P., Wang B., Yu C., **Ding J.S.** and Wang R.Y. (2022) Characteristic Analysis of Satellite DCB Products Provided by DLR and CAS, *Progress in Astronomy*. doi: 10.3969/j.issn.1000-8349.2022.03.01. (in Chinese) (CSCD)

ACADEMIC REPORT

1. **Ding J.S.**, Chen J.P., Wang J.G. and Zhang Y.Z. (2023), *Characteristic differences in tropospheric delay between NGL products and NWM ray-tracing*, Speaker, European Navigation Conference (ENC 2023), Session S02–Position determination, held on 31 May–2 June, 2023 in Noordwijk, Netherlands.
2. **Ding J.S.**, Chen J.P. and Tang W.J. (2022), *Increasing Trend of Precipitable Water Vapor in Antarctica and Greenland*, Speaker, China Satellite Navigation Conference 2022, Session S01–Industry Applications of Satellite Navigation, held on 25–27 May, 2022 in Beijing, China.
3. **Ding J.S.**, Chen J.P. and Tang W.J. (2022), *Increasing Trend of Precipitable Water Vapor in Antarctica and Greenland*, Speaker, EGU General Assembly 2022, Session G5.2–Atmospheric and Environmental Monitoring with Space-Geodetic Techniques and Contributions to Extreme Weather Studies, held on 23–27 May, 2022 in Vienna, Austria. [link]
4. **Ding J.S.** and Chen J.P. (2021), *Global GNSS PWV Accuracy Assessment and Spatio-temporal Characteristics Analysis (1994-2020)*, Speaker, 4-th Congress of China Geodesy and Geophysics (4-th CCGG), CNC-IAMAS, M01: Atmospheric Sounding and Remote Sensing, held on July 17-18, 2021 in Qingdao, China. [link]
5. **Ding J.S.** and Chen J.P. (2021), *Long-period Accuracy Evaluation and Spatial-temporal Characterization Analysis of Global GNSS-derived PWV*, Speaker, Scientific Assembly of the International Association Geodesy (IAG2021), Session 5.5: Assimilation of Geodetic Observations in the Modelling of the Atmosphere, Cryosphere and Hydrosphere (Joint ICCG), held on June 28 - July 2, 2021 in Beijing, China. [link]
6. **Ding J.S.** and Chen J.P. (2020), *Assessment of Empirical Troposphere Model GPT3 Based on NGL's Global Troposphere Products*, Speaker, International Association of Professionals in Global Positioning Systems (CPGPS) Forum 2020, Session 5: System and Design of Navigation Signal, held on Nov. 12-15 2020 in Shanghai, China. [link]