



CHENG Yuting

PhD candidate

Email yu-ting.cheng@obsom.fr

Address 77 Av. Denfert-Rochereau, 75014, Paris, France

Phone +3363029094

SUMMARY

Proactive, passionate young researcher in the cross field of astronomy and geoscience. Possessing a wide range of knowledge of space geodetic techniques, data processing, and theories of Earth rotation and reference systems. Fast learner, rigorous and efficient, keen to learn new things and explore every possibilities.

EXPERIENCE

Paris, France | Oct 2020-Present

PhD candidate | SYRTE, Observatoire de Paris

Generating hourly time series of pole coordinates and length of day (LOD) from GPS and Galileo data with GINS/DYNAMO software; Analyzing these time series in comparison with geophysical excitations.

Grande Est, France | Aug 2023

Presenter | SpaceBus France

Presenter on multiple topics (Sun-Earth-Moon system, Solar system, Constellations, Astrochemistry, Myth and Science) during the 2023 summer tour of SpaceBus France, a national French association of professional astronomers dedicated to the vulgarization of astronomy and space science.

Meudon, France | Mar 2022

Teaching Assistant | DU ECU, Observatoire de Paris

The practical working part (TP) of DU Explorer et Comprendre l'Univers (Exploring and understanding the universe), a course offered by Paris Observatory to working adults, covering topics including astrometry, solar spectrum, image processing and observation sessions of the Sun.

Nanjing, China | Sep 2016- Jan 2019

Teaching Assistant | Nanjing University

Teaching assistant of the university course on Theoretical Mechanics for sophomores of the astronomy department of Nanjing University.

EDUCATION

Nanjing, China Sep 2017-Jun 2020

Master in Astrometry and Celestial Mechanics | Nanjing University

Nanjing, China Sep 2013-Jun 2017

Bachelor in Astronomy | Nanjing University

LANGUAGES

Mandarin Chinese	Native
English	Advanced
French	Advanced (DALF C2)
Spanish	Elementary

SKILLS

OS	Windows, Linux
Programming	Python, Shell Script, Matlab
Data processing	GINS/DYNAMO, VieVS
Others	LaTeX, Photoshop, Office, SubtitleEdit

PUBLICATIONS

Cheng, Y., & Bizouard, C. (2024). Effect of the ocean tide on the Earth nutation from FES 2014 tidal model, in preparation

Bizouard, C. & Cheng, Y. (2024). Diurnal and semi-diurnal effects of the ocean tide on polar motion and UT1 from FES 2014 tidal model, in preparation

Cheng et al. (2023). Studies of sub-daily time resolution pole coordinate series from GNSS observations, IUGG General assembly, 2023, Berlin, Germany

Bizouard, C., & Cheng, Y. (2023). The use of the quaternions for describing the Earth's rotation. Journal of Geodesy, 97(6), 53.

Cheng, Y. T., Liu, J. C., & Zhu, Z. (2019). Analyses of celestial pole offsets with VLBI, LLR, and optical observations. Astronomy & Astrophysics, 627, A81. arXiv: 1905.13113

天空之物 (2023), ISBN 978-7-5739-0647-2, the Chinese edition of the book "Ciel" by Michel Marcelin