Shuang-jing Xu — CV

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Personal Details

Date of birth: 1990 August

Place of birth: Shandong, People's Republic of China

Nationality: Chinese

Languages: Chinese (native), English (fluent)

ORCID: 0000-0003-2953-6442

Experience

Post-Doc. Daejeon, South Korea Korea Astronomy and Space Science Institute (KASI) 2020.09 - Present

Research Assistant Shanghai, China

Shanghai Astronomical Observatory (SHAO), Chinese Academy of Sciences 2019.01 - 2020.08

Education.....

Ph.D., VLBI Astrometry and Geodesy Shanghai, China Shanghai Astronomical Observatory & University of Chinese Academy of Sciences, 2013.09 - 2019.01

B.S., Geomatics Engineering Shandong, China

School of Architectural Engineering, Shandong University of Technology, 2009.09 - 2013.06

Publication List

- O Xu, S., Zhang, B., Reid, M. J. et al. "A Milliarcsecond Accurate Position for Sagittarius A*". ApJ, in press (2022). (ADS Link)
- O Xu, S., Imai, H., Yun, Y., Zhang, B., et al. "The Astrometric Animation of Water Masers towards the Mira Variable BX Cam". ApJ, in press (2022). (ADS Link)
- o Xu, S., Zhang, B., Reid, M. J. et al. "Comparison of Gaia DR2 Parallaxes of Stars with VLBI Astrometry". ApJ, 875:114 (2019). (ADS Link)
- O Xu, S., Zhang, B., Reid, M. J. et al. "The Parallax of the Red Hypergiant VX Sgr with Accurate Tropospheric Delay Calibration". ApJ, 859:14 (2018). (ADS Link)
- Sakai, N., Zhang, B., Xu, S., et al. "EAVN Astrometry toward the Extreme Outer Galaxy: Kinematic distance with the proper motion of G034.84-00.95". Submitted to PASJ, (2022).
- O Sun, Y., Zhang, B., Reid, M. J., Xu, S., et al. "A Very Long Baseline Array Trigonometric Parallax for RR Aql and the Mira Period-Luminosity Relation". ApJ, 931:74 (2022). (ADS Link)
- O Yao, D., Wu, Y., Zhang, B., Sun, J., Sun, Y., Xu, S. et al. "The NTSC VLBI System and its application in UT1 measurement". RAA, 20:093 (2020). (ADS Link)

Proceedings

Xu, S., Jike, T., Jung, T., et al. "The K Band Geodesy with the East Asian VLBI Network". Proceedings of the 25th European VLBI Group for Geodesy and Astrometry Working Meeting, pp. 71-73 (2021). (ADS Link)

Selected Talks

- 2022.10- (Invited) "Validate Gaia Stellar Reference Frame via VLBI Astrometry of Radio Stars";
 ACAMAR Themed Workshop on VLBI 2022; Online
- 2022.09- (Invited) "High Frequency Geodetic VLBI with EAVN and KVN"; The 2nd Malaysian VLBI Workshop; Kuala Lumpur(Online), Malaysia
- 2022.08- "The Astrometric Animation of Water Masers towards the Mira Variable BX Cam"; Focus Meeting 7 "Astrometry for 21st Century Astronomy" at the IAUGA 2022; Busan, Korea
- o 2021.06- (Invited) "EAVN K-band Geodesy"; Optical Clock Comparison using VLBI Workshop; Online
- 2021.03- "The K Band Geodesy with the East Asian VLBI Network"; The 25th European VLBI Group for Geodesy and Astrometry Working Meeting; Online
- 2021.03- "The Progress of K band Geodesy with EAVN"; The 13th East Asian VLBI Workshop; Chiang Mai(Online), Thailand
- 2019.09- "Verifying Gaia Astrometric Results of Stars with VLBI Astrometry"; The 12th East Asian VLBI Workshop; Ibaraki, Japan
- 2018.09- "Radio Astrometry in Gaia Era"; The 11th East Asian VLBI Workshop; PyeongChang, Korea
- 2017.11- "Accurate tropospheric delay calibration and its application for KaVA astrometry"; 2017
 KaVA/EAVN Joint Science Working Group Meeting; Daejeon, Korea
- 2016.03- "The Statistic Analysis of Atmospheric Effects of Differential VLBI"; The 9th IVS General Meeting; Johannesburg, South Africa

Main Projects

- O Project 1: "K Band Geodesy with the East Asian VLBI Network (EAVN)"; (PI), (Talk)
- Project 2: "K/Q/W/D Band Geodesy with the Korean VLBI Network (KVN)"; (PI).
- Project 3: "EAVN Synthesis of Stellar Maser Animations (ESTEMA)"; (Paper)
- Project 4: "Multi-frequency AGN Survey with KVN (MASK)".
- O Project 5: "Validate Gaia Stellar Reference Frame via VLBI Astrometry of Radio Stars".
- Project 6: "Astrometric Performance Evaluation of EAVN".
- PI Observation Experience:
 EAVN (>200 hr), KVN (>50 hr), VLBA (>20 hr), EVN (>30 hr), LBA (>40 hr)

Skills

Programming Languages: Python, MATLAB, R, Shell script

VLBI software: AIPS/ParselTongue, Difmap, Calc/Solve(nuSolve), SKED, SCHED, HOPS, CASA