

Gabor Orosz, PhD

Radio Astronomer (former VLBI Support Scientist at JIVE)

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Summary

Radio astronomer with operational and research experience across major VLBI networks (10+ years). Background in telescope operations and network testing, user support and training, quality assurance and data reduction. Research focus on maser astrometry with experience in AGN observations.

Education

PhD in Radio Astronomy, *Kagoshima University, Japan* **2013–2017**

MSc in Geodesy, *Budapest University of Technology and Economics, Hungary* **2010–2012**

BSc in Civil Engineering, *Budapest University of Technology, Hungary* **2006–2010**

Experience

Support Scientist, *Joint Institute for VLBI ERIC, the Netherlands* **2021–2025**

Operations support for European VLBI Network. Network testing, data quality assurance, correlation support, pipeline processing, user support and training. VLBI research and international collaboration.

Postdoctoral Researcher, *University of Tasmania, Australia* **2018–2021**

Project support of VLBI survey commissioning and telescope operations. Executing scheduling, correlation workflows, quality control. Student supervision and Australian Long Baseline Array support.

Assistant Researcher, *Xinjiang Astronomical Observatory, China* **2017–2018**

Spectral-line VLBI research and on-site support of the Urumqi Nanshan radio telescope. Member in the maser Key Science Programs of the East Asian VLBI Network. Outreach activities.

PhD Research Student, *Kagoshima University, Japan* **2013–2017**

Late stellar evolution research and development of VLBI techniques for precision astrometry. Led maser projects with VERA and KaVA. Observing support on multiple Japanese radio telescopes.

Skills & Additional Information

VLBI Arrays: EVN, VLBA, LBA, AuScope and UTAS internal networks, VERA, KaVA, EAVN – from proposal preparation to data reduction (and internal technical support for EVN and LBA).

Technical: Scheduling, telescope setup and monitoring, VLBI correlation support, network testing, data quality assurance. Data processing with CASA, AIPS, Difmap, and ParselTongue pipelines.

Research: Water Fountain stars, stellar evolution and maser kinematics, VLBI astrometry. Work on AGN: topic of MSc, GENJI AGN project in PhD, providing VLBI expertise in collaborative research.

Communication: Supervision of university students. Teaching in schools, trainings and in-person user support. Communicating outside academia, outreach work. Used to multicultural teams.

Publications: 30 peer-reviewed articles, 23 conference proceedings. H-index: 15. Citations: 500+. Recipient of the Japanese Government (Monbukagakusho:MEXT) and Chinese Academy of Sciences (Light of West China Program) research grants. See my ORCID for details: [0000-0002-5526-990X](https://orcid.org/0000-0002-5526-990X)