

Gabor Orosz, PhD

Radio Astronomer · VLBI Operations and Research

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Summary

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

Education

PhD in Radio Astronomy , <i>Kagoshima University, Japan</i>	2013–2017
MSc in Geodesy , <i>Budapest University of Technology and Economics, Hungary</i>	2010–2012
BSc in Civil Engineering , <i>Budapest University of Technology, Hungary</i>	2006–2010

Experience

Support Scientist, *Joint Institute for VLBI ERIC, the Netherlands* **2021–2025**
Operations support for European VLBI Network. Network testing (including the integration of new telescopes), data quality assurance, correlation support, pipeline processing, user support and training.

Postdoctoral Researcher, *University of Tasmania, Australia* **2018–2021**
Project support of VLBI survey commissioning and telescope operations. 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

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

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

Research: Water Fountain stars, star formation and stellar evolution, maser kinematics, VLBI astrometry. ALMA co-investigator. Collaborative work on AGN and other topics.

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

Publications: 30 peer-reviewed articles, 23 conference proceedings. H-index: 14. Citations: 600+. 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)

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