Jongho Park

Assistant Professor · Kyung Hee University · Department of Astronomy and Space Science
jparkastro@khu.ac.kr · jhparkastro.github.io · ORCID: 0000-0001-6558-9053

Research Interests

Direct imaging of supermassive black holes and relativistic jets using VLBI; development of polarization calibration techniques (GPCAL); magnetic field structure in AGN jets; jet collimation and acceleration; millimeter VLBI with the EHT and GMVA.

Employment

Kyung Hee University, Yongin, Korea — 2023 – present
Assistant Professor, Dept. of Astronomy and Space Science

Korea Astronomy and Space Science Institute, Daejeon, Korea — 2022 – 2023
Tenure-track Senior Researcher

Academia Sinica Institute of Astronomy & Astrophysics, Taipei, Taiwan — 2019 – 2022
EACOA Fellow (2020–2022) / *Postdoctoral Fellow* (2019–2020)

Education

Ph.D. in Astronomy, Seoul National University — 2019
Advisor: Prof. Sascha Trippe

B.Sc. in Physics & Astronomy, *cum laude*, Seoul National University — 2013

Honors & Awards

EHT Early Career Award — co-leading 2018 M87 imaging — 2025
POSCO Science Fellowship — 2024
Young Astronomer Award, Korean Astronomical Society — 2024
EHT Early Career Award — first M87 polarimetric imaging — 2021
EACOA Fellowship — 2020 – 2022
Global Ph.D. Fellowship, National Research Foundation of Korea — 2014 – 2019

Key Roles

Project Coordinator, EHT 2022 M87 Jet Base Imaging Project — 2026 – present
Co-Leader of the Imaging Parts, 2018 EHT M87 Black Hole Imaging Project — 2022 – 2024
External Science Reviewer, ALMA Large Program Review
AGN Proposal Reviewer, National Radio Astronomy Observatory (NRAO) — 2022 – 2023
Time Allocation Committee, East Asia VLBI Network — 2024 – present

Publications

17 first-author papers · 1 student-led paper (corresponding author) · 80+ co-authored papers
Full list: NASA ADS Library

Selected first-author papers:

1. Park et al. 2026, ApJL, 996, L22 — *Helical Magnetic Field in the ACZ of the M87 Jet*
2. Park et al. 2024, ApJL, 973, L45 — *Limb-Brightening in NGC 315*
3. Park et al. 2021, ApJ, 906, 85 — *GPCAL: Generalized Polarization Calibration for VLBI*
4. Park et al. 2019, ApJ, 887, 147 — *Kinematics of the M87 Jet in the Collimation Zone*
5. Park et al. 2019, ApJ, 871, 257 — *Faraday Rotation in the M87 Jet Inside the Bondi Radius*

Selected co-authored papers:

- EHT Collab. 2025, A&A — M87* variability 2017–2021 **[GPCAL main pipeline]**
- EHT Collab. 2024, A&A, 681, A79 — Persistent M87 shadow **[Imaging co-lead]**
- EHT Collab. 2021, ApJ, 910, L12 — First M87 polarization **[GPCAL developer]**
- Lu et al. 2023, Nature, 616, 686 — M87 ring-like accretion structure
- Cui et al. 2023, Nature, 621, 711 — Precessing jet nozzle in M87

Software

GPCAL — Open-source polarization calibration pipeline for VLBI (GitHub).
Main pipeline for EHT M87 polarization (2021) and multi-year variability (2025).

Observing Proposals as PI

33 successful proposals totaling ∼1,100 hours of telescope time:

ALMA	58 hr	**GMVA**	135 hr	**VLBA**	217 hr	**HSA**	164 hr
GVA	32 hr	**EAVN**	90 hr	**KVN**	287 hr	**KaVA**	124 hr

Selected Invited Talks

28 invited talks · 28 contributed · 4 lecture series · 1 press conference
Full list: jhparkastro.github.io/#talks

- 11th East Asian Meeting on Astronomy, Niigata, Japan (Dec 2025)
- AAS HEAD 20 Meeting, Hawai'i (Mar 2023)
- IAUGA 2022 Focus Meeting, Busan (Aug 2022)
- Press conference: First M87 EHT Polarization Results, ASIAA, Taipei (Mar 2021)
- Lecturer: GPCAL Workshop, M2FINDERS, MPIfR, Bonn, Germany (Jan 2025)

Teaching & Mentoring

Teaching: Observational Astronomy (undergrad), Statistics for Astronomers (grad) at KHU.
Lectures: Radio Summer School, KASI (2023–2025); M2FINDERS GPCAL Workshop, MPIfR (2025).
Group: 1 postdoc, 3 Ph.D. students, 3 M.S. students, 3 undergraduates.

Service

Proposal review: NRAO AGN panel (2022A, 2022B, 2023A, 2023B), EAVN TAC (2024–present), ALMA Large Program Review.
Journal review: ApJ, ApJL, A&A (twice), MNRAS, JKAS (twice).
Committee: EHT DAAPP Task Force. SOC: EHT Imaging Workshop 2020, 17th EVN Symposium (Jodrell Bank). LOC: 2026 EHT Summer Collaboration Meeting.

References

Prof. Sascha Trippe, Seoul National Univ.
trippe@astro.snu.ac.kr

Dr. Kazuhiro Hada, NAOJ
kazuhiro.hada@nao.ac.jp

Dr. Keiichi Asada, ASIAA
asada@asiaa.sinica.edu.tw

Dr. Geoffrey Bower, ASIAA / EHT
gbower@asiaa.sinica.edu.tw