

Jeong Yun Choi (최정윤)

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Education

2015 - 2020 B.Sc. in Physics, Konkuk University · Seoul · Korea

2016 Exchange program in Physics department, University of Alberta · Canada

2020 - 2022 M.Sc. in Astronomy, Yonsei University · Seoul · Korea

Thesis (Advised by Prof. Young-Wook Lee) : Effects of He and CNO enhanced Multiple Stellar Populations in determining the absolute ages of Globular Clusters ([thesis link](#))

2022.11 - present PhD student in Heidelberg University, Heidelberg Institute for Theoretical Studies (HITS) · Germany

Teaching Experience

2019 Fall Hanbit school for blind : After-School Math tutor

2020 - 2021 Yonsei University : Teaching assistant of undergraduate courses (Understanding of Space, Scientific Image Data Processing, Introduction to Astronomy)

2020 - 2024 Heidelberg University : 2023 Summer Semester - Introduction to computational physics, 2023/24 Winter Semester - Astrolab

Outreach / Volunteer works

2017 - 2018 Korea Polar Research Institute 1st & 2nd science communicator

2021 Yonsei Astronomy outreach program organizer

2021 Fall - 2022 Winter Donga Science Observatory outreach program

2022 International Astronomical Union General Assembly (IAUGA) : Student supporter from the National Organization

2022 Task Force of Korean Astronomical Society (KAS) Equity, Diversity, and Inclusion Committee

2024 arXiv Accessibility Forum volunteer as a live note taker : Deaf Hub at RIT

2024 JuForum Heidelberg SciencePub talk ([link](#))

2024 EAS special session as a scientific organizer ([link](#))

2024 Winter : Universal Universe program in Nowon with Seoul Dongcheon school students with developmental disabilities

2025 VeKNI annual meeting speaker

Languages & Skills

Languages : Korean (Native), Korean Sign Language (Intermediate), English (Proficient), German (Beginner)

Computational Skills : Python, Latex, Git, SSH

Scientific meetings

2022 Korea Astronomy Society Meeting : contributed talk ([link](#))

2024 8th TESS/15th Kepler Asteroseismic Science Consortium Workshop in Portugal : contributed talk ([link](#))

2024 Europe-Korea Conference on Science and Technology : Invited Talk

2025 9th TESS/16th Kepler Asteroseismic Science Consortium Workshop in Austria : [Poster](#)

2025 Europe-Korea Conference on Science and Technology : Invited Talk

2025 HITS lab meeting, October

2026 EKC session chair

- Attended Workshops

2018 KIAS Winter Camp on Particle Physics, 2021 Penn State Summer School in Astrostatistics, 2023 Carl-Zeiss-Stiftung Summer School on scientific Machine Learning for Astrophysics, IMPRS summer school “Unraveling Galaxy Evolution with JWST”, 2024 IMPRS-Astro Hackathon (Heidelberg) : **AI tools in research session leader**, ML4Astro 2024 at HITS (Heidelberg), Porto Summer School on Asteroseismology, 2026 AstroCon Heidelberg

Publications

Hidden oscillations in plain sight: identification of seismically unresolved red-giant asteroseismic binary candidates (*accepted, first-author*)

Choi, J. Y., Espinoza-Rojas, F., & Hekker, S. 2026, A&A

Power density spectra morphologies of seismically unresolved red-giant asteroseismic binaries (*published, first-author*)

Choi, J. Y., Espinoza-Rojas, F., Coppée, Q., & Hekker, S. 2025, A&A, 699, A180

Grant & Awards

2018 - 2019 Merit-based scholarships in Konkuk University

2020 - 2021 Brain Korea 21 Plus Fellowship, Yonsei Brain Korea 21 Project

2021 The Yonsei Astro Poster Jamboree (Excellence award of the best poster)

2024 TASC8/KASC15 student fee waiver sponsored by the White Dwarf Research Corporation (WDRC)

Membership

2020 - present Korean Astronomical Society (KAS)

2024 - present VeKNI

2026 - present IAU CPS (Centre for the Protection of Dark and Quiet Skies from Satellite Constellation Interference)
