

HYERIN CHO (조혜린)

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[Google Scholar](#) ◇ [Github](#) ◇ [LinkedIn](#)

EDUCATION

Center for Astrophysics Harvard & Smithsonian Ph.D. Candidate in Astronomy and Astrophysics <i>Advisor: Professor Ramesh Narayan</i>	Sep. 2020 - (May 2026)
Center for Astrophysics Harvard & Smithsonian Master of Arts in Astronomy and Astrophysics	Sep. 2020 - May 2023
GIST(Gwangju Institute of Science and Technology) , <i>cum laude</i> B.S. Physics Major / Math Minor	Mar. 2015 - Feb. 2020
California Institute of Technology Study Abroad Program	Sep. 2017 - Dec. 2017

PUBLICATIONS

My publication list can also be accessed in [Google Scholar](#), [arXiv](#), [ads](#)

First-author articles

1. **Cho** et al. 2025 [submitted to ApJ](#), “Bridging Scales in Black Hole Accretion and Feedback: Relativistic Jet linking the Horizon to the Host Galaxy”
2. **Cho** and Narayan 2025 [submitted to ApJ](#), “Variability in Black Hole Accretion: Dependence on Rotational and Magnetic Energy Balance”
3. **Cho** et al. 2024 [ApJ](#), 977, “Multizone Modeling of Black Hole Accretion and Feedback in 3D GRMHD: Bridging Vast Spatial and Temporal Scales”
4. **Cho** et al. 2023 [ApJL](#), 959, “Bridging Scales in Black Hole Accretion and Feedback: Magnetized Bondi Accretion in 3D GRMHD”
5. **Cho** and Narayan 2022 [ApJ](#), 932, “Analytical Model of Disk Evaporation and State Transitions in Accreting Black Holes”
6. **Cho** et al. 2020 [ApJL](#), 891, “Spectropolarimetric analysis of FRB 181112 at microsecond resolution: Implications for Fast Radio Burst emission mechanism”

Co-authored articles

1. Su, ... **Cho**, ... 2025 [ApJL](#), 981, “Bridging Scales: Coupling the Galactic Nucleus to the Larger Cosmic Environment”
2. Sutinjo, ... **Cho**, ... 2023 [ApJ](#), 954, “Calculation and Uncertainty of Fast Radio Burst Structure Based on Smoothed Data”
3. Scott, **Cho**, ... 2023 [A&C](#), 44, “CELEBI: The CRAFT Effortless Localisation and Enhanced Burst Inspection pipeline”
4. Bhandari, ..., **Cho**, ... 2020 [ApJL](#), 901, “Limits on precursor and afterglow radio emission from a fast radio burst in a star-forming galaxy”
5. Sammons, ..., **Cho**, ... 2020 [ApJ](#), 900, “First constraints on compact dark matter from Fast Radio Burst microstructure”
6. Prochaska, ..., **Cho**, ... 2019 [Science](#), 366, “The low density and magnetization of a massive galaxy halo exposed by a fast radio burst”

AWARDS & FELLOWSHIPS

ACCESS Maximize (PI: Ramesh Narayan, AST080028)	Oct. 2024 - Sep. 2025
ACCESS Explore (PI: Hyerin Cho, PHY230079)	Jun. 2023 - Jun. 2024
Ilju Foundation Study Abroad Scholarship	Aug. 2020 - Jul. 2024

Selected as 1 of 6 recipients nationwide in Korea across all disciplines for a prestigious doctoral scholarship (~ \$120,000 USD over four years) awarded to support Ph.D. studies abroad.

Talent Award of Korea (대한민국인재상)	Dec. 2020
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Awarded by the South Korean government to outstanding young leaders demonstrating excellence, creativity, and public service. Selected as one of the top national recipients representing Korea's next-generation talent.

GIST Outstanding Thesis Award (우수논문상)	Feb. 2020
GIST Future Research Talent Award (미래인재상)	Feb. 2020
Korea National Science and Engineering Scholarship (국가이공계장학금)	Mar. 2015 - Feb. 2020

A scholarship to fund full tuition for 8 semesters from Korea Student Aid Foundation, Ministry of Education

Curtin Institute of Radio Astronomy (CIRA) Summer Studentship	Dec. 2018 - Feb. 2019
Caltech Summer Undergraduate Research Fellowship	Jun. 2018 - Aug.

TEACHING EXPERIENCE

<i>Teaching Assistant</i> Harvard AY17 Galactic and Extragalactic Astronomy (undergraduate course)	Sep. 2022 - Dec. 2022
<i>Teaching Assistant</i> Harvard AY200 Radiative Processes in Astrophysics (graduate course)	Sep. 2021 - Dec. 2021
<i>Teaching Assistant</i> GIST MM4016 Introduction to Topology (4th-year course)	Sep. 2019 - Dec. 2019
<i>Teaching Assistant</i> GIST PS3101 Electromagnetism II (3rd-year course)	Mar. 2018 - Jun. 2018

ETC.

Language	Korean (native), English (fluent)
Hobbies	Yoga, Run, Dance