

Hyerin Cho (조혜린)

60 Garden Street
Cambridge, MA 02138, USA
hyerin.cho@cfa.harvard.edu, chyerin1996@gmail.com
LinkedIn: www.linkedin.com/in/hyerin-cho-astro
Website: hyerincho.com

EDUCATION	Center for Astrophysics Harvard & Smithsonian Ph.D. Candidate	Sep. 2020 - Present
	GIST(Gwangju Institute of Science and Technology) , <i>cum laude</i> <i>B.S. Physics Major / Math Minor</i> Total GPA: 4.0/4.5 (3.7/4.0 U.S. scale) Major GPA: 4.4/4.5 (4.0/4.0 U.S. scale) ¹	Mar. 2015 - Feb. 2020
	California Institute of Technology <i>Study Abroad Program</i> Total GPA: 3.9/4.3	Sep. 2017 - Dec. 2017
	University of California, Berkeley <i>Summer Session</i>	Jun. 2016 - Aug. 2016
RESEARCH EXPERIENCE	Seoul National University <i>Visiting Student Intern</i> Supervisor: Prof. Ji-hoon Kim <i>Impacts of galactic perturbers on fueling the MBH with a resolution appropriate accretion model</i>	Mar. 2020 - Aug. 2020
	OzGrav, Swinburne University of Technology <i>Visiting Student Intern</i> Supervisors: Prof. Matthew Bailes, Prof. Adam Deller, Prof. Ryan Shannon <i>Localized ASKAP FRBs' high time resolution and their analysis.</i>	Mar. 2019 - Jun. 2019
	Curtin Institute of Radio Astronomy (CIRA) <i>Visiting Research Associate / Summer Studentship</i> Supervisors: Prof. Jean-Pierre Macquart, Dr. Clancy James, Dr. Ian Morrison <i>Recovering the full time resolution of ASKAP FRB voltage data.</i>	Dec. 2018 - Feb. 2019
	Caltech Theoretical Astrophysics <i>Summer Undergraduate Research Fellow</i> Supervisor: Prof. Sterl Phinney <i>Numerical modeling of time-independent accretion discs with instabilities.</i>	Jun. 2018 - Aug. 2018
	GIST General Intelligence and Smart Environment Laboratory <i>Student Intern</i> Supervisor: Prof. Kin Choong Yow <i>Studying deep learning and its applications to physics problems.</i>	Oct. 2015 - Aug. 2017

PUBLICATIONS [arXiv](#), [ads](#)

¹The courses with PS(Physics) course code in GIST transcript, including courses taken at Caltech.

- Articles published or accepted in refereed journals
 - **Cho** and Narayan 2022 [ApJ](#), 932, “*Analytical Model of Disk Evaporation and State Transitions in Accreting Black Holes*”
 - Bhandari et. al. 2020 [ApJL](#), 901, “*Limits on precursor and afterglow radio emission from a fast radio burst in a star-forming galaxy*”
 - Sammons et. al. 2020 [ApJ](#), 900, “*First constraints on compact dark matter from Fast Radio Burst microstructure*”
 - **Cho** et. al. 2020 [ApJL](#), 891, “*Spectropolarimetric analysis of FRB 181112 at microsecond resolution: Implications for Fast Radio Burst emission mechanism*”
 - Prochaska et. al. 2019 [Science](#), 366, “*The low density and magnetization of a massive galaxy halo exposed by a fast radio burst*”

AWARDS & FELLOWSHIPS

Ilju Foundation Study Abroad Scholarship	Aug. 2020 - Jul. 2024
A competitive scholarship granting 30,000 USD per year for four years during a Ph.D. program. The foundation selected 6 distinguished students from all majors.	
Talent Award of Korea (대한민국인재상)	Dec. 2020
An award bestowed by the Minister of Education of Korea. It recognizes those individuals who are likely to become Korea’s future leaders and have performed exemplary talents.	
GIST Outstanding Thesis Award (우수논문상)	Feb. 2020
GIST Future Research Talent Award (미래인재상)	Feb. 2020
Korea National Science and Engineering Scholarship	Mar. 2015 - Feb. 2020
A scholarship to fund full tuition for 8 semesters from Korea Student Aid Foundation, Ministry of Education (국가이공계장학금)	
CIRA Summer Studentship	Dec. 2018 - Feb. 2019
Caltech Summer Undergraduate Research Fellowship	Jun. 2018 - Aug. 2018

TEACHING EXPERIENCE

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

LANGUAGE PROFICIENCY

Korean (native)
 English (fluent²)
 Japanese, Chinese (basic knowledge)

²Cumulative 3 years living in the U.S. during middle school and university. 6 months living in Australia during research internships.