

JIHYE HONG

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EDUCATION

Ph.D. in Physics and Astronomy, University of Notre Dame, IN, USA	Jun. 2021 - (May 2026)
<ul style="list-style-type: none">• Thesis: Understanding the Galactic History from Large-Scale Photometry• Adviser: Prof. Evan N. Kirby and Prof. Timothy C. Beers	
M.S. in Science Education, Ewha Womans University, Seoul, South Korea	Sep. 2016 - Feb. 2019
B.S. in Earth Science Education, Ewha Womans University, Seoul, South Korea	Mar. 2012 - Aug. 2016

PUBLICATIONS

- Jihye Hong**, Evan N. Kirby, Masashi Chiba, et al. 2026, “Fe and Mg distributions in the halo and stellar streams of Andromeda from Subaru/HSC photometry” (in prep)
- Jonathan Cabrera Garcia, Timothy C. Beers, Yang Huang, et al. 2025, “Chemodynamically Tagged Groups of CEMP Stars in the Halo of the Milky Way. III. CEMP-*r* candidates” (in prep)
- Jihye Hong**, Timothy C. Beers, Yang Huang, et al. 2025, “Candidate CEMP Members of the Milky Way from the J-PLUS and S-PLUS” (in prep)
- Young Sun Lee, Timothy C. Beers, Yutaka Hirai, et al. 2025, “A New Class of Carbon-Enhanced Metal-Poor Stars” (submitted)
- Shuai Xu, Haibo Yuan, Bowen Huang, et al. 2025, “Evidence for the Very Metal-poor Thick Disk” (submitted)
- Jihye Hong**, Evan N. Kirby, Tiffany N. Tang, et al. 2025, “Estimating Fe and Mg Abundance of Milky Way’s Dwarf Galaxies from Subaru/HSC and DEIMOS using Random Forest” (submitted)
- Xue Lu, Haibo Yuan, Shuai Xu, et al. 2024, “Stellar Loci. VII. Photometric Metallicities of 5 Million FGK Stars Based on GALEX GR6+7 AIS and Gaia EDR3”
- Jihye Hong**, Timothy C. Beers, Young Sun Lee, et al. 2024, “Candidate Members of the VMP/EMP Disk System of the Galaxy from the SkyMapper and SAGES Surveys”
- Yang Huang, Timothy C. Beers, Kai Xiao, et al. 2023, “J-PLUS: Beyond spectroscopy III. Stellar parameters and elemental abundance ratios for five million stars from DR3”
- Jonathan Cabrera Garcia, Timothy C. Beers, Yang Huang, et al. 2023, “Probing the Galactic halo with RR Lyrae stars - V. Chemistry, kinematics, and dynamically tagged groups”
- Jihye Hong**, Janet P. Simpson, Deokkeun An, et al. 2021, “Hunting for Planetary Nebulae toward the Galactic Center”

PRESENTATIONS

Virtual poster, 245 th American Astronomical Society meeting, MD, USA	Jan. 12–16, 2025
Poster, 2024 Astrophysical Origins of Carbon Workshop, Tokyo, Japan	Sep. 2–5, 2024
Contributed talk, 2024 CeNAM Frontiers in Nuclear Astrophysics Meeting, IN, United States	Jun. 3–7, 2024

Poster, 2023 CeNAM Frontiers in Nuclear Astrophysics Meeting, MI, United States	May 21–26, 2023
Virtual poster, 240 th American Astronomical Society meeting, CA, United States	Jun. 12–16, 2022
Poster, 30 th International Astronomical Union General Assembly, Vienna, Austria	Aug. 18–20, 2018
Poster, 98 th Korea Astronomical Society Conference, Seoul, Republic of Korea,	May 10–11, 2018

PROFESSIONAL ACTIVITIES

Scientific Artificial Intelligence Graduate Pilot Program, 2025, IN, United States	Jan. 13– May. 12, 2025
AI+Science Summer School 2024, IL, United States	Jul. 15–19, 2024
7 th Giant Magellan Telescope Summer School, Seoul, Republic of Korea	Aug. 28–31, 2017
SDSS-IV Collaboration Meeting 2018, Seoul, Republic of Korea	Aug. 28–31, 2017

TEACHING EXPERIENCES

Teaching Assistant, University of Notre Dame, Notre Dame, IN, USA	Sep. 2021 - Dec. 2023
Grading the Annual Fighting Irish Science Olympiad, University of Notre Dame, IN, USA	Jan. 28, 2023
Judging the Science Fair, Meadow’s Edge Elementary School, Mishawaka, IN, USA	Jan. 25, 2023
Science Teaching, Incheon Haewon Middle School, Incheon, Republic of Korea	Mar. 2020 - Jul. 2020
Elementary Science Teaching, Ewha Center for Gifted Education, Seoul, Republic of Korea	Aug. 13, 2018
Science Teaching, Dongmyeong Girl’s High School, Seoul, Republic of Korea	Apr. 2015 - May. 2015
Physics Teaching, Yale Girl’s High School, Seoul, Republic of Korea	Aug. 2013 - Jun. 2014

AWARD & SCHOLARSHIPS

Scientific Artificial Intelligence Program Fellowship, University of Notre Dame	Jan. 13– May. 12, 2025
IReNA Travel Support, International Research Network for Nuclear Astrophysics	Sep. 2–5, 2024
Graduate Student Government Conference Presentation Grant, University of Notre Dame	Sep. 2–5, 2024
Graduate Student Government Conference Presentation Grant, University of Notre Dame	Jun. 21–26, 2023
Research Assistant Scholarship, Ewha Womans University	Sep. 2017 - Jun. 2018
Admission Scholarship, Ewha Womans University	Sep. 2016 - Jun. 2017
Dean’s Honors Scholarship, Ewha Womans University	Mar. 2015 - Dec. 2015
Eunpyeonggu Scholarship, Eunpyeong Local Student Aid Foundation	Mar. 2012 - Dec. 2013

SKILLS

Python (Numpy, Scikit-learn, Pandas), RandomForest, XGBoost, PyTorch, Keras, NN, IDL, TOPCAT, \LaTeX