

# JIHYE HONG

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## EDUCATION

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- Ph.D. in Physics and Astronomy, University of Notre Dame, IN, USA Jun. 2021 - (May 2026)
- 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, Republic of Korea Sep. 2016 - Feb. 2019
- B.S. in Earth Science Education, Ewha Womans University, Seoul, Republic of Korea Mar. 2012 - Aug. 2016

## PUBLICATIONS

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- 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

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- Poster, International Astronomical Union Symposium 403, Córdoba, Spain Oct. 6–10, 2025
- Virtual poster, 245<sup>th</sup> American Astronomical Society meeting, MD, USA Jan. 12–16, 2025
- Poster, Astrophysical Origins of Carbon Workshop, Tokyo, Japan Sep. 2–5, 2024

Contributed talk, CeNAM Frontiers in Nuclear Astrophysics Meeting, IN, USA	Jun. 3–7, 2024
Poster, CeNAM Frontiers in Nuclear Astrophysics Meeting, MI, USA	May 21–26, 2023
Virtual poster, 240 <sup>th</sup> American Astronomical Society meeting, CA, USA	Jun. 12–16, 2022
Poster, 30 <sup>th</sup> International Astronomical Union General Assembly, Vienna, Austria	Aug. 18–20, 2018
Poster, 98 <sup>th</sup> Korea Astronomical Society Conference, Seoul, Republic of Korea	May 10–11, 2018

## PROFESSIONAL ACTIVITIES

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AstroAI Workshop by Center for Astrophysics of Harvard & Smithsonian, MA, USA	Jul. 7–11, 2025
Scientific Artificial Intelligence Graduate Pilot Program, IN, USA	Jan. 13– May 12, 2025
Notre Dame Warrior-Scholar Project program, IN, USA	Jun. 23–27, 2025
AI+Science Summer School, IL, USA	Jul. 15–19, 2024
Day of Accessibility by Space Telescope Science Institute, MD, USA	Apr. 13, 2023
7 <sup>th</sup> Giant Magellan Telescope Summer School, Seoul, Republic of Korea	Aug. 28–31, 2017
SDSS-IV Collaboration Meeting, Seoul, Republic of Korea	Aug. 28–31, 2017

## TEACHING EXPERIENCES

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Teaching Assistant, University of Notre Dame, IN, USA	Sep. 2021 - Dec. 2023
Grading the Annual Fighting Irish Science Olympiad, IN, USA	Jan. 28, 2023
Judging the Science Fair, Meadow’s Edge Elementary School, IN, USA	Jan. 25, 2023
Science Teaching, Incheon Haewon Middle School, Incheon, Republic of Korea	Mar. 2020 - Jul. 2020

## AWARD & SCHOLARSHIPS

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International Travel Grant, American Astronomical Society	Oct. 6–10, 2025
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

## SKILLS

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