

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) |
| <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

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| Virtual poster, 245 th American Astronomical Society meeting, National Harbor, USA | Jan. 12–16, 2024 |
| 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 |

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| Poster, 2023 CeNAM Frontiers in Nuclear Astrophysics Meeting, MI, United States | May 21–26, 2024 |
| Virtual poster, 240 th American Astronomical Society meeting, Pasadena, 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

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| 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

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| 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

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| 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