

YUBIN KIM

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EDUCATION

Ewha Womans University

B.S. in Physics

GPA: 3.81/4.3

Feb 2026 (expected)

RESEARCH INTERESTS

- Gravitational wave
- Multi-messenger astronomy
- Artificial intelligence
- Astro-informatics

RESEARCH EXPERIENCE

Human-Centered Artificial Intelligence Lab, Seoul National University Jan 2024 - Feb 2025

Undergraduate Research Intern

Supervisors: Prof. Hyunggu Jung

Astrophysics Lab, Ewha Womans University

Undergraduate Research Intern

Dec 2022 - Nov 2023

Supervisors: Prof. Chunglee Kim

PUBLICATIONS AND PRESENTATIONS

- **Kim, Y.**, Moon, Y., Son, J., Park, M., Min, J., Jung, H. (2025). "Analysis of the Tools for Measuring and Visualizing AI Model Carbon Emissions: A Systematic Review," HCI Korea 2025, Proceedings (Co-first author, published)
- Seong, G., **Kim, Y.**, Kwak, K., Ahn, S., Park, C., Hahn, K. I., Kim, C. (2024). $^{12}\text{C}+^{12}\text{C}$ Reaction Rates and the Evolution of a Massive Star. *Journal of The Korean Astronomical Society*, 57(2), 115–122. <https://doi.org/10.5303/JKAS.2024.57.2.115> (Co-first author, published)
- **Kim, Y.**, Jung, H. "Applications of Deep Learning in Gravitational Wave Data Quality Studies: A Systematic Review," (1st author, under review)
- **Kim, Y.**, Min, J., Jung, H. "Capability of Multimodal Large Language Models to Describe Gravitational Wave Images," (1st author, under review)
- Oral presentation at HCI Korea 2025

AWARDS AND SCHOLARSHIPS

Undergraduate Major Leadership Scholarship, Ewha Womans University	<i>Fall 2024</i>
Korea Toray Science Foundation Scholarship	<i>Spring 2024</i>
KB Foundation Scholarship for Basic Science	<i>Spring 2023</i>
Dean's List, Ewha Womans University	<i>2021 Fall, 2022 Spring & Fall, 2023 Fall, 2024 Fall</i>

SKILLS/HOBBIES

Programming Languages	Python, MATLAB
Machine Learning Tools	Pytorch, Tensorflow, Numpy
Scientific Tools	LaTeX (academic writing and editing)