## Yubin Kim

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#### RESEARCH INTERESTS

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

### **EDUCATION**

Ewha Womans University, Seoul, South Korea

Bachelor of Science in Physics

Minors in Mathematics and Philosophy

Mar. 2020 — Feb. 2026 (Expected)

Cumulative GPA: 3.86/4.30

## RESEARCH EXPERIENCE

Undergraduate Research Intern, Computational Astrophysics Lab

Ulsan National Institute of Science and Technology

Supervisors: Prof. Kyujin Kwak

Undergraduate Research Intern, Human-Centered Artificial Intelligence Lab

Seoul National University

Supervisors: Prof. Hyunggu Jung

Undergraduate Research Intern, Astrophysics Lab

Ewha Womans University

Supervisors: Prof. Chunglee Kim

Ulsan, South Korea July 2025 — Present

Seoul, South Korea

Jan. 2024 — Feb. 2025

Seoul, South Korea

Dec. 2022 — Nov. 2023

#### **PUBLICATIONS**

## Journal paper

- Seong, G., Kim, Y., Kwak, K., Ahn, S., Park, C., Hahn, K. I., & Kim, C. (2024). 12C+12C Reaction Rates and the Evolution of a Massive Star. *Journal of The Korean Astronomical Society*, **57**(2), 115–122. (Co-first author, Published) https://doi.org/10.5303/JKAS.2024.57.2.115
- Kim, Y., Jung, H. "Applications of Deep Learning in Gravitational Wave Data Quality Studies: A Systematic Review." (First author, Under review)
- Kim, Y., Min, J., Jung, H. "Capability of Multimodal Large Language Models to Describe Gravitational Wave Images." (First author, Under review)

## Proceeding

• 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. *Proceedings of the HCI Korea Conference*, Gangwon, South Korea. (Oral Presentation, Co-first author)

#### AWARDS AND SCHOLARSHIPS

Undergraduate Major Leadership Scholarship, Ewha Womans University

Korea Toray Science Foundation Scholarship

Ewha Womans University Department of Physics Alumni Scholarship

KB Foundation Scholarship for Basic Science

Jicheon Scholarship, Ewha Womans University

Dean's List, Ewha Womans University

Fall 2024, Fall 2024

Fall 2023

Fall 2023

Spring 2023

Fall 2022, Spring 2022

Dean's List, Ewha Womans University

2021 Fall, 2022 Spring & Fall, 2023 Fall, 2024 Fall, 2025 Spring

EXTRACURRICULAR ACTIVITIES

# Academic and Leadership Activities

• Staff, 111th Spring Meeting of the Korean Astronomical Society	Apr. 2025
• Participant, Gravitational-Wave and Numerical Relativity Summer School	2023, 2024
• Participant, Gravitational-Wave and Numerical Relativity Winter School	2023
• Oral Presentation (1st Place), College of Natural Sciences Academic Festival, Ewha Womans University	2023
• Executive Member, Department of Physics Student Council, Ewha Womans University	2022-2023
• Member, EPAD (Ewha Physics Academic Club), Ewha Womans University	2022
Member, ECC (Ewha Central Computer Club), Ewha Womans University	2021

Yubin Kim # July #2025

## Teaching and Outreach Activities

• Private Math Tutor, QANDA Platform (Online, Part-time)

Mar. 2025—Present

• Private Tutor in High School and Middle School Physics and Mathematics (Part-time)

2022 - 2025

• Peer Tutor, Ewha Womans University

2025 2023

• High School Outreach Volunteer, Ewha Womans University

• Math Tutor for High School Students, Dragon Math Academy (Part-time)

June. 2022 - Dec. 2022

## ENGLISH TESTS

TOEFL iBT: 97 (R: 29, L: 25, S: 22, W: 21)

 $June\ 2025$ 

## **SKILLS**

 $\bullet$  Programming Languages : Python

• Mahine Learning Tools: Pytorch, Tensorflow, Numpy

• Scientific Tools : LaTeX (academic writing and editing)