

Intae Jung

Assistant Professor / Ph.D.

Department of Astronomy & Space Science

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Lyman- α Emitting Galaxies | Reionization | High-redshift Galaxies | Chemical Evolution | Machine Learning

Academic Appointment

Assistant Professor at Chungbuk National University (CBNU)	03/2026 – Present
Postdoctoral Researcher at the Space Telescope Science Institute	08/2022 – 02/2026
JWST Postdoc at NASA's Goddard Space Flight Center (Sponsor: CUA)	09/2019 – 08/2022
The NASA Earth and Space Science Fellowship (NESSF) Graduate Student Fellow	09/2017 – 08/2019

Education

Ph.D. in Astronomy, University of Texas at Austin, Texas, USA	2019
Thesis: <i>Constraining the End of Reionization with Lyα Spectroscopy</i>	
M.S. in Astronomy, Yonsei University, Seoul, South Korea	2012
B.S. in Astronomy and Physics (double major), Yonsei University, Seoul, South Korea	2010

Fellowships, Awards, and Grants

*CBNU G-LAMP Joint Research Program (Co-I; KRW 25M institutional collaborative grant)	2026
*JWST Cycle 3 Grant (~\$70k, Co-I), PID: GO-6368 (PI: Dickinson)	2024
*CRESST II Postdoc Fellow for an <i>Independent Science Program</i> at NASA GSFC, MD (3yrs)	2019 – 2022
*NASA/Keck Observing Grant 2021A (\$16,100)	2021 Spring
Chambliss Astronomy Achievement Student Awards, 233rd AAS Meeting, Seattle, WA	01/2019
The NASA Earth and Space Science Fellowship (NESSF) (\$45,000/year, up to 3yrs)	2017 – 2019
University Graduate School Continuing Fellowship, UT Austin, TX, USA (~\$25,000)	2017 – 2018
The Global Internship Program, The National Research Foundation of Korea (~\$21,200)	2011 – 2012
National Science & Technology Scholarship, South Korea (~\$27,100)	2004 – 2009

Publications Summary

10 First author papers (out of 82 papers in total, 72 refereed), >6000 citations, H-index 40 (as of Mar 2026)

Teaching & Mentoring Experience

Courses Taught:

• <i>Extragalactic Universe & Cosmology</i> (Graduate), Chungbuk National University	2026 Spring
• <i>Astronomical Observations & Laboratory I</i> (Undergrad), Chungbuk National University	2026 Spring

Graduate Student Advising:

• Inhyeok Yang, graduate student at Chungbuk National University (CBNU)	03/2026 –
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Intern Student Mentoring:

• Mentor for the STScI Summer Program: Turaba Rahman (undergrad at the Kent State Univ.)	2023
Project: <i>Spatially Resolved Stellar Populations of $z \sim 4 - 6$ LAEs with CEERS JWST NIRC<i>am</i> imaging</i>	
• Mentor for the Summer Internship at NASA GSFC: Seonwoo Kim (grad student at UIUC)	2022
Project: <i>Evolution of Lyman Alpha Line Widths at the End of Reionization</i>	

Training in Teaching: <i>Concentration in Teaching and Mentoring Courses**</i> , UT Austin, TX	08/2018
**Three courses for PhD and postdoc for improving teaching and mentoring abilities beyond a TA level	
Guest lecture: <i>Galaxies and the Universe</i> class, UT Austin, TX	04/2017
TA for 7 astronomy courses at UT Austin, TX & Yonsei University, Korea	2010 – 2017

Major Collaborations

JWST-**CEERS** (PI: Finkelstein), JWST-**CAPERS** (PI: Dickinson), JWST-**Cosmic Spring** (PI: Coe), JWST-**NGDEEP** (Co-PIs: Finkelstein, Papovich and Pirzkal), HST-**CLEAR** (PI: Papovich), HST-**CANDELS** (Co-PIs: Faber & Ferguson)

Awarded Telescope Time

PI: I. Jung , NASA Keck 2021A: 2 nights of Keck + MOSFIRE	2021 Spring
Title: <i>Probing Inhomogeneity of Reionization with a Deep and Wide Lyman-Alpha Emission Survey at $z > 7$</i>	
PI: I. Jung , Gemini North + GNIRS (6.2 hr)	2021 Spring
Title: <i>Near-infrared Spectroscopy of an Extremely-Large Equivalent-width Lyman-alpha Emitter at $z=7.608$</i>	
PI: I. Jung , HET/LRS2 (~13hr) Title: <i>A spectroscopic search for galaxies in the epoch of reionization</i>	2017 Spring
As Co-Investigator	
JWST 13 GO programs – PIs: Chisholm (Cy1), Dunlop (Cy1), Finkelstein (Cy1), Kassin (Cy1), Abdurro'uf (Cy2), Zavala (Cy2), Dickinson (Cy3), Kartaltepe (Cy3), Hutchison (Cy3), Fujimoto (Cy4), Simons (Cy4), Davis (Cy4), Mitsuhashi (Cy4)	
Keck 50+ nights with DEIMOS, LRIS, MOSFIRE – PIs: Cooper, Casey, Finkelstein, Larson, Hutchison	
HST 2 GO & 2 AR programs – PIs: Finkelstein, Jimenez-Andrade, Cleri	
ALMA 1 Cycle 7 (24.7 hr) – PI: Hashimoto & 1 Cycle 8 DDT (11.7hr) – PI: Yoon	

Service Experience / Public Outreach

Panel Support Scientist for the JWST Cycle 3 TAC , STScI, Baltimore, MD	11/2023 – 02/2024
Subject Matter Expert* for NASA's Webb Space Telescope Community Events	2021 – 2022
*Speaker at the JWST Public Talk at Cape Fear Museum of History and Science on 10/15/2021	
Scientist Featured in a NASA JWST Astronomy Day Q&A in Social Media	05/2021
Subject-matter Expert Reviewer in a NASA peer review	2021
Proposal Review External Panel for HST (Cy 28 & 29), ALMA (Cy 8), & JWST DDT (Cy 1)	2020 – Present
Journal Referee for ApJ, A&A, MNRAS	2019 – Present
Development Team of Exemplar Key Science Programs For GMT and TMT	2018 Fall
Graduate student committee for the 2017 Dept external review self-study, UT Austin, TX	2017
Representative to the Graduate Student Assembly, UT Austin, TX	2016 – 2017
Student Representative at the Astronomy department, Yonsei University, Seoul, Korea	2007 – 2008
Military Service, the Military Police in Republic of Korea Army, Hwacheon, Korea	2005 – 2007

Invited/Colloquia/Seminar Talks

Invited Talk, K-GMT Science Program Users Meeting 2026, Daejeon, Korea	08/2026
Colloquium, Korea Astronomy and Space Science Institute (KASI), Daejeon, Korea	05/2026
Colloquium, Dept. of Astronomy & Space Science, Chungnam National University, Daejeon, Korea	05/2026
Colloquium, Department of Astronomy, Yonsei University, Seoul, Korea	04/2026
Seminar Talk, Texas A&M University, College Station, TX, USA	11/2025
Colloquium, 2024 HotSci Summer Colloquium at JHU/STScI, Baltimore, MD, USA	07/2024
Colloquium, 2023 HotSci Summer Colloquium at JHU/STScI, Baltimore, MD, USA	08/2023

Seminar Talk, Arizona State University, Tempe, AZ, USA	11/2021
Seminar Talk, Georgia Tech, Atlanta, GA, USA	11/2021
EURECA Seminar Talk, University of Arizona, Tucson, AZ, USA	09/2021
Seminar Talk, Seoul National University, Seoul, Korea	07/2021
Seminar Talk, Yonsei University, Seoul, Korea	06/2021
Seminar Talk, Director's Seminar, SED, NASA GSFC, Greenbelt, MD	03/2021
Colloquium, Department of Physics and Astronomy, University of Louisville	02/2021
Seminar Talk, Galaxies & AGN Journal Club at STScI/JHU, Baltimore, MD, USA	02/2021
Colloquium, Astrophysics Science Division Colloquium, NASA GSFC, Greenbelt, MD	05/2020
Seminar Talk, University of California - Riverside, Riverside, CA	10/2018
Seminar Talk, Yonsei University, Seoul, Korea	04/2018
Best Paper Award Talk, Korean-American Scientists & Engineers Association-Austin, TX	02/2017
Seminar Talk, Korea Astronomy Space Science Institute, Daejeon, Korea	12/2016

Other Presentations

Contributed Talk, Cosmic Horizons 2026 (Astronomy+AI Conference), Charlottesville, VA, USA	07/2026
Contributed Talk, CFC2025, The Cosmic Frontier Center Conference, Austin, TX, USA	05/2025
Contributed Talk, Escape of Lyman radiation from galactic labyrinths, Crete, Greece	04/2025
Contributed Talk, The First Gigayear(s), NOIRLab Conference, Hilo, HI, USA	10/2024
Contributed Talk, Roman Science Inspired by Emerging JWST Results, STScI, MD, USA	06/2023
Contributed Talk, CEERS Team Meeting, Austin, TX, USA	05/2023
Contributed Talk, Summer All Zoom Epoch of Reionization Astronomy Conference 2.0	06/2021
Contributed Talk, Summer All Zoom Epoch of Reionization Astronomy Conference	07/2020
Contributed Talk, AAS 235th Meeting, Honolulu, HI, USA	01/2020
Contributed Talk, Extremely Big Eyes ... UCLA, Los Angeles, CA, USA	01/2019
Contributed Talk, Special session talk, AAS 233rd Meeting, Seattle, WA, USA	01/2019
Poster, AAS 233rd Meeting, Seattle, WA, USA	01/2019
Poster, Tokyo Spring Cosmic Lyman-Alpha Workshop, Tokyo, Japan	03/2018
Contributed Talk, The growth of galaxies in the Early Universe – IV, Sesto, Italy	01/2018
Dissertation Talk, 231st AAS Meeting, Washington DC, USA	01/2018
Poster, BashFest 2017, Austin, TX, USA	10/2017
Contributed Talk, 5 th GMT Community Science Meeting, Tarrytown, NY, USA	09/2017
Poster, AAS 230th Meeting, Austin, TX, USA	06/2017
Contributed Talk, Snowbird Cosmic Lyman-Alpha Workshop, Snowbird, UT, USA	03/2017
Contributed Talk, 2016 Santa Cruz Galaxy Workshop, Santa Cruz, CA, USA	08/2016
Contributed Talk, Signals from the Deep Past, Valletta, Malta	07/2016
Poster, AAS 227th Meeting, Kissimmee, FL, USA	01/2016
Contributed Talk, 2015 CANDELS Team Meeting, Santa Cruz, CA, USA	07/2015
Defense talk, Qualifying exam/2nd-year Defense, Austin, TX, USA	05/2015
Poster, South by High Redshift, Austin, TX, USA	04/2015
Contributed Talk, Sussing Merger Trees, Midhurst, West Sussex, UK	07/2013

References

- Dr. Harry Ferguson**, Astronomer, Space Telescope Science Institute, MD (ferguson@stsci.edu)
Prof. Steven Finkelstein, Professor, University of Texas at Austin, TX (stevenf@astro.as.utexas.edu)
Dr. Alaina Henry, Scientist, Space Telescope Science Institute, MD (ahenry@stsci.edu)