

# Yongseok Jo

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## EDUCATION

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<b>Gachon University</b> (Major:Physics)	<i>Seoul, S.Korea</i>	<i>Mar. 2009 - Feb. 2014</i>
<i>- Graduation Summa Cum Laude</i>		
<b>Seoul National University</b> (Major:Physics)	<i>Seoul, S.Korea</i>	<i>Sep. 2014 - Aug. 2022</i>
<i>- I joined the experimental condensed matter physics group in Sep. 2015</i>		
<i>- I moved to the computational cosmology group (Ji-hoon's Group) in March. 2018</i>		
<b>Thesis title:</b>		
<i>Synergetic Bridge of Simulation, Observation and Theory With Machine Learning In Astrophysics</i>		

## EMPLOYMENT

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<b>Flatiron Institute</b>	<i>New York, U.S.</i>	<i>Aug. 2022 - Aug. 2025</i>
<i>- I joined the CMBAS and CCA group as a Flatiron Research Fellow (FRF)</i>		
<b>Columbia University</b>	<i>New York, U.S.</i>	<i>Mar. 2023 - Aug. 2025</i>
<i>- I am jointly affiliated with Flatiron Institute.</i>		
<b>SkAI institute</b>	<i>Chicago, U.S.</i>	<i>Sep. 2025 - PRESENT</i>
<b>Northwestern University</b>	<i>Evanston, U.S.</i>	<i>Sep. 2025 - PRESENT</i>

## EXPERIENCE

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<b>Undergraduate researcher</b>	<i>Gachon University (Advisor: Heongkyu Ju)</i>
<i>Jan. 2012 - Jun. 2013</i>	
<b>Undergraduate researcher (SURF)</b>	<i>POSTECH (Advisor: Jong-Bong Lee)</i>
<i>Jul. 2013 - Aug. 2013</i>	
<b>Undergraduate researcher</b>	<i>Gachon University (Advisor: Hyungtae Kook)</i>
<i>Nov. 2013 - Aug. 2014</i>	
<b>Teaching Assisant</b>	<i>Seoul National University</i>
<i>Sep. 2014 - Aug. 2016</i>	
<b>Research Assistant</b>	<i>Seoul National University (Advisor: Yun Park)</i>
<i>Sep. 2015 - Feb. 2018</i>	
<b>Research Assistant</b>	<i>Seoul National University (Advisor: Ji-hoon Kim)</i>
<i>Mar. 2018 - Jul. 2022</i>	

## AWARDS & HONORS

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**Academic Scholarship, Gachon Univ., 2011**  
**Executive Scholarship, Gachon Univ., 2012**  
**Physics Summar Research Fellowship, POSTECH, Jul. 2013 - Aug. 2013**  
**Honor at Graduation, Gachon Univ., Feb. 2014**  
**Brain Korea Scholarship, SNU, Sep. 2014 - Aug. 2018**  
**Brain Korea Fellowship, SNU, Mar. 2020 - Jul. 2022**  
**Outstanding Ph.D. Thesis Award, SNU, Aug. 2022**

## SKILLS

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<b>Programming Languages:</b>	C/C++, Python, CUDA C/C++, Fortran, Mathematica
<b>Frameworks &amp; Tools:</b>	PyTorch, MPI, OpenMP, Tensorflow
<b>Simulations:</b>	Cosmological hydrodynamic/direct N-body simulations
<b>Supercomputer:</b>	Adiministrator of 360-processor cluster (2018-2021)
<b>Languages:</b>	English (fluent), Korean (native)

## REFERENCE

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Prof. Greg L. Bryan @ Columbia University	gb2141@columbia.edu
Dr. Shy Genel @ Flatiron Institute	sgenel@flatironinstitute.org
Prof. Ji-hoon Kim @ Seoul National University (Ph.D. supervisor)	mornkr@snu.ac.kr

## PRESENTATION

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<b>2019 Santa Cruz Galaxy Workshop</b>	UCSC, California
<i>Poster Presenter</i>	Aug. 2019
<b>2019 Korean Astronomical Society Fall Meeting</b>	CIAS, S.Korea
<i>Oral Presenter</i>	Oct. 2019
<b>2019 Korean Astronomy Machine Learning Meeting</b>	Yongsei Univ., S.Korea
<i>Oral Presenter</i>	Oct. 2019
<b>Galaxy Formation and Evolution Across Cosmic Time</b>	ASIAA, Taiwan
<i>Oral Presenter</i>	Dec. 2019
<b>2020 Numerical Galaxy Formation Mini-Workshop</b>	SNU, S.Korea
<i>Organizing Committee And Oral Presenter</i>	Jan. 2020
<b>2020 Korean Astronomical Society Fall Meeting</b>	Online Meeting
<i>Oral Presenter</i>	Oct. 2020
<b>2020 Korean Astronomy Machine Learning Meeting</b>	Online Meeting
<i>Oral Presenter</i>	Oct. 2020
<b>The 9th KIAS Workshop on Cosmology and Structure Formation</b>	Online Meeting
<i>Oral Presenter</i>	Nov. 2020
<b>2021 Numerical Galaxy Formation Mini-Workshop</b>	Online Meeting
<i>Oral Presenter</i>	Jan. 2021
<b>2021 AGORA workshop</b>	Online Meeting
<i>Oral Presenter</i>	Aug. 2021
<b>2022 KAS Meeting</b>	Online Meeting
<i>Oral Presenter</i>	Apr. 2022
<b>2022 CAMELS workshop</b>	Flatiron Institute, New York
<i>Oral Presenter</i>	Dec. 2022
<b>Gotham Fest</b>	Flatiron Institute, New York
<i>Oral Presenter</i>	Jan. 2023
<b>Learning the Universe Meeting</b>	IAP, Paris
<i>Oral Presenter</i>	Feb. 2023
<b>CAMELS-CGM Workshop</b>	Yale Univ., Connecticut
<i>Oral Presenter</i>	August. 2023
<b>MODEST Workshop</b>	Northwestern Univ., Chicago
<i>Oral Presenter</i>	August. 2023
<b>Learning the Universe Meeting</b>	Flatiron, New York
<i>Oral Presenter</i>	Sep. 2023
<b>Learning the Universe Meeting</b>	Germany
<i>Oral Presenter</i>	March. 2023
<b>Numerical Galaxy Formation/AGORA Workshop</b>	SNU, S.Korea
<i>Oral Presenter</i>	May. 2023
<b>Mini-Galaxy Formation Workshop</b>	Yonsei, S.Korea
<i>Invited Presenter</i>	May. 2023
<b>Physics Department Seminar</b>	Chungnam Univ., S.Korea
<i>Invited Presenter</i>	May. 2023
<b>2025 Santa Cruz Galaxy Workshop</b>	UCSC, California
<i>Oral Presenter</i>	Aug. 2025