

Enoch Jo

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Education

University of Illinois at Urbana-Champaign	2018 – Present
Doctor of Philosophy (Ph.D.) Atmospheric Science, 2022 (est.)	
Florida State University	2015 – 2017
Master of Science (M.S.) Meteorology, 2017	
University of California, Los Angeles	2013 – 2015
Bachelor of Science (B.S.) Atmospheric Science, 2015	
<ul style="list-style-type: none">Completed the 4-year undergraduate curriculum in 2 years with no transfer creditsThe unofficial record holder for the most classes taken per quarter (i.e., 8), the equivalent of 38 credit hours (undergraduate students at UCLA are advised to take no more than 18 credit hours)	

Professional Experience

University of Illinois at Urbana-Champaign	2018 – Present
<i>Research Assistant</i>	
<ul style="list-style-type: none">Investigating entrainment, dilution, and precipitation efficiency of supercells using idealized high-resolution (100 m) CM1 simulations on NCSA Blue Waters	
Seoul National University	2017 – 2018
<i>Researcher</i>	
<ul style="list-style-type: none">Identified long term precipitation trends over the Korean Peninsula through utilizing the Self-Organizing Map to analyze radar and precipitation data	
Florida State University	2016 – 2017
<i>Research Assistant</i>	
<ul style="list-style-type: none">Investigated the structure and dynamics of potential vorticity dipoles generated by supercell thunderstorms using the Weather Research and Forecasting Model	
Florida State University	2015 – 2017
<i>Teaching Assistant</i>	
<ul style="list-style-type: none">Introduction to Meteorology Laboratory” (MET 1010L)Responsible for instructing students on instrumentation, data analysis, and weather system modelsNominated twice for the Outstanding Teaching Assistant Award: 2015-2016, 2016-2017	

Extracurricular and Volunteering Activities

Founder of the “Miracle-10” program	2011 – Present
<ul style="list-style-type: none">The “Miracle-10” program invites participants to donate 10,000 KRW (~8.5 USD) on a monthly basis to the Rainbow Children’s Fund, a charity organization in Ngaoundere, Cameroon.	
Graduate Student Mentor (Unofficial)	Aug. to Dec. 2019
<ul style="list-style-type: none">Guided several undergraduate students in their efforts to visualize model data using Python for the purposes of generating presentation-quality plots.	
Private Tutor	2013 – 2014
<ul style="list-style-type: none">Prepared high school students for TOEFL writing prompts over the summer break. Used funds from tutoring sessions to offer partial (i.e., 50%) financial support to several university students at Ludong University, Yantai, Shandong Province, China.	

Publications

Jo, E., Lasher-Trapp, S. (2021). Entrainment in a Simulated Supercell Thunderstorm, Part II: The Influence of Vertical Wind Shear and General Effects Upon Precipitation. Submitted to the Journal of the Atmospheric Sciences.

Jo, E., Lasher-Trapp, S. (2022). Entrainment in a Simulated Supercell Thunderstorm, Part III: The Influence of Relative Humidity upon Precipitation Processes. Manuscript in Preparation.

Lasher-Trapp, S., Jo, E., Allen, L. R., Engelsen, B. N., & Trapp, R. J. (2021). Entrainment in a Simulated Supercell Thunderstorm. Part I: The Evolution of Different Entrainment Mechanisms and Their Dilutive Effects. *Journal of the Atmospheric Sciences*, 78(9), 2725-2740.

Park, C., Son, S. W., Kim, J., Chang, E. C., Kim, J. H., Jo, E., ... & Jeong, S. (2021). Diverse synoptic weather patterns of warm-season heavy rainfall events in South Korea. *Monthly Weather Review*.

Jo, E., Park, C., Son, S. W., Roh, J. W., Lee, G. W., & Lee, Y. H. (2020). Classification of localized heavy rainfall events in South Korea. *Asia-Pacific Journal of Atmospheric Sciences*, 56(1), 77-88.

Presentations

Jo E. and Lasher-Trapp S. The Influence of Vertical Wind Shear on Entrainment in a Simulated Supercell Thunderstorm. Virtual Presentation presented at the 5th Midwest Student Conference on Atmospheric Research. September 2021

Jo E. and Lasher-Trapp S. Entrainment Mechanisms and their Dilutive Effects in a Simulated Supercell Thunderstorm. Virtual Seminar presented upon invitation for the “HAPpy talk” event, hosted by NCAR RAL. January 2021

Jo E. and Lasher-Trapp S. Entrainment in Supercells. Oral Presentation presented at the 10th European Conference on Severe Storms, Krakow, Poland. October 2019

Jo E. and Lasher-Trapp S. Entrainment in Supercells. Oral Presentation presented at the 3rd Midwest Student Conference on Atmospheric Research, Urbana, IL. October 2019

Jo E. and Lasher-Trapp S. Entrainment in the Rotating Stage of Supercell Thunderstorms. Poster Presentation presented at the SESE research review, Urbana, IL. February 2019

Awards

Audience Favorite Oral Presentation Award **Oct. 2019**

- Award given to the best presentation, as voted on by audience members of the 10th European Conference on Severe Storms at Krakow, Poland

Talent Award of Korea **Nov. 2017**

- Award bestowed by the Deputy Prime Minister and Minister of Education of Korea in recognition of individuals with exemplary talents or outstanding meritorious service

Computing Experience

Programming Languages

- Python . MATLAB . Fortran . NCL . Shell Script

Typeset and Visualization

- LaTeX . VisIt . Adobe Photoshop . Illustrator . InDesign . XD . Autodesk Fusion 360

Numerical Models and Microphysics Schemes

- CM1 . WRF . NSSL . Kessler

Languages

English (native) . Chinese (native) . Korean (native)

Involvement

American Mensa Qualification **Mar. 2020**

RAIT Fluid Intelligence Index	99 th percentile	
RAIT Total Intelligence Index	98 th percentile	
RAIT Total Battery Intelligence Index	98 th percentile	

Equestrian Club (Hunt Seat)

University of Illinois at Urbana-Champaign	2018 – 2019
Florida State University	2015 – 2017