

February, 2024

Yuan-Jen Lin

Postdoctoral Research Scientist

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EDUCATION

National Taiwan University	Taipei, Taiwan
Ph.D. in Atmospheric Sciences	2016 – 2022
Thesis: “Climate feedback and the ocean: uncertainties and their interaction under global warming”	
Advisor: Yen-Ting Hwang	
National Taiwan University	Taipei, Taiwan
B.S. in Atmospheric Sciences	2012 – 2016

RESEARCH EXPERIENCE AND EMPLOYMENT

Postdoctoral Research Scientist	2022 - present
Center for Climate Systems Research, Columbia University NASA Goddard Institute for Space Studies (GISS)	
Visiting Scholar	2021 – 2022
Atmospheric & Environmental Sciences, SUNY Albany (Host: Brian E. J. Rose)	
Research Assistant	2016 – 2021
Atmospheric Sciences, National Taiwan University (Supervisor: Yen-Ting Hwang)	

PEER-REVIEWED PUBLICATIONS

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- 2023 **Lin, Yuan-Jen**, Brian EJ Rose, and Yen-Ting Hwang. “Mean state AMOC affects AMOC weakening through subsurface warming in the Labrador Sea” *Journal of Climate* 36, no. 12 (2023): 3895-3915. <https://doi.org/10.1175/JCLI-D-22-0464.1>
- 2021 **Lin, Yuan-Jen**, Yen-Ting Hwang, Jian Lu, Fukai Liu, and Brian EJ Rose. “The dominant contribution of Southern Ocean heat uptake to time-evolving radiative feedback in CESM.” *Geophysical Research Letters* 48, no. 9 (2021): e2021GL093302. <https://doi.org/10.1029/2021GL093302>
- 2019 **Lin, Yuan-Jen**, Yen-Ting Hwang, Paulo Ceppi, and Jonathan M. Gregory. “Uncertainty in the evolution of climate feedback traced to the strength of the Atlantic meridional overturning circulation.” *Geophysical Research Letters* 46, no. 21 (2019): 12331-12339. <https://doi.org/10.1029/2019GL083084>
- in review.* **Lin, Yuan-Jen**, Gregory V. Cesana, Cristian Proistosescu, Mark D. Zelinka, and Kyle C. Armour. “The relative importance of forced and unforced temperature patterns in driving the time variation of low-cloud feedback.” (in review, *Journal of Climate*)
- in prep.* **Lin, Yuan-Jen** and co-authors. “SST Green’s Function in NASA GISS ModelE3.”

PRESENTATIONS

Seminar, Department of Atmospheric Science, Colorado State University	Jan 2024
“The relative importance of forced and unforced temperature patterns in driving the time variation of low-cloud feedback”	

NCAR Climate and Global Dynamics Laboratory (CGD) Seminar “The relative importance of forced and unforced temperature patterns in driving the time variation of low-cloud feedback”	Jan 2024
Atmospheric & Climate Dynamics Seminar, University of Washington “The relative importance of forced and unforced temperature patterns in driving the time variation of low-cloud feedback”	Nov 2023
SEAS Colloquium in Climate Science (SCiCS), Columbia University “Understanding changing ocean circulation and its role in modifying climate sensitivity”	Apr 2022
Lightning Talk at the 15th ECS symposium “The dominant contribution of Southern Ocean heat uptake to time-evolving radiative feedback in CESM”	Feb 2022
Climate Seminar, University at Albany (SUNY) “The role of ocean in the time-evolving radiative feedbacks”	Oct 2021
CASPO Seminar, Scripps Institution of Oceanography “Understanding the role of ocean in modifying time-evolving radiative feedback”	Nov 2020

HONORS AND AWARDS

2022 Chou Chia Publication Award: Lin et al. (2021) (doi: 10.1029/2021GL093302)
 2021 Chou Chia Publication Award: Lin et al. (2019) (doi: 10.1029/2019GL083084)
**Chou Chia Publication Award is an annual award for climate related publication in Taiwan, in memory of the climate scientist Chou Chia.*

2019 Best Presentation Award | Atmospheric Sciences Annual Meeting, Taoyuan, Taiwan.
 2017 Best Presentation Award | Atmospheric Sciences Annual Meeting, Miaoli, Taiwan.

GRANT FUNDING

Graduate Student Study Abroad Program, Ministry of Science and Technology, Taiwan <i>The grant supports my one-year research visit at SUNY Albany.</i>	2021-2022
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SELECTED CONFERENCE PRESENTATIONS

CFMIP-GASS Meeting on Cloud, Precipitation, Circulation & Climate Sensitivity, France. <i>(poster) The relative importance of forced and unforced temperature patterns in driving the time variation of low-cloud feedback</i>	Jul 2023
AGU Fall Meeting, Chicago, IL. <i>(oral) Mean state AMOC affects AMOC weakening through subsurface warming in the Labrador Sea</i>	Dec 2022
The Pattern Effect Workshop, Boulder, CO. <i>(poster) The role of ocean in modifying SST pattern formation and time-evolving radiative feedback</i>	May 2022
US AMOC Science Team Meeting, Woods Hole, MA. <i>(poster) Mean state AMOC affects AMOC weakening through subsurface warming in the Labrador Sea</i>	Apr 2022
CFMIP Annual Meeting on Clouds, Precipitation, Circulation & Climate Sensitivity, Online. <i>(poster) The role of ocean in the time-evolving radiative feedbacks</i>	Sep 2021
AGU Fall Meeting, Online. <i>(oral) Attributing Radiative Feedback Evolution to Regional Ocean Heat Uptake</i>	Dec 2020

East Asian Workshop on Climate Dynamics, Busan, Korea. (oral) <i>Uncertainty in the Evolution of Climate Feedback Traced to the Strength of the Atlantic Meridional Overturning</i>	May 2019
CFMIP Annual Meeting on Clouds, Precipitation, Circulation, & Climate Sensitivity, CO. (oral) <i>Uncertainty in the Evolution of Climate Feedback Traced to the Strength of the Atlantic Meridional Overturning</i>	Oct 2018
Atmospheric Sciences Annual Meeting, Miaoli, Taiwan. (poster) <i>Responses to Greenhouse Gas Forcing and their Influence on Global and Regional Climate Change in CMIP5 GCMs</i>	Feb 2017

LEADERSHIP AND SERVICE

Peer Review

Geophysical Research Letters
Journal of Climate
Nature Geoscience
Journal of Advances in Modeling Earth Systems (JAMES)

Executive Committee Member of Climate Seminar, University at Albany, SUNY. (2021-2022)

Volunteer Staff, CFMIP Annual Meeting. (2021)

TEACHING AND MENTORING EXPERIENCE

Teaching Assistant, National Taiwan University
Climate Science (Spring 2021, Spring 2020, Fall 2018, Fall 2016)
An Introductory Survey to Atmospheric Science Research (Spring 2018, Spring 2017)

SKILL MATRIX

Programming Languages: Python (proficient), Fortran, Matlab
Shell Scripting: Bash
Version Control: Git
GCMs: Community Earth System Model (CESM), NASA GISS ModelE
High Performance Computing: Intel Compiler, PBS, Slurm Workload Manager
Data Analysis/Visualization: Python (xarray, numpy, scipy, matplotlib, etc.), Cloud computing (Pangeo), Climate Data Operators (CDO), NetCDF Operators (NCO), NCAR Command Language (NCL), Matlab