

Xia Li

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POSTDOCTORAL RESEARCH ASSOCIATE, PRINCETON UNIVERSITY AND GFDL

EDUCATION **University of Utah** *2017 – 2022*
Ph.D. in Atmospheric Sciences
Advisor: Prof. Steven K. Krueger
Co-advisor: Prof. Courtenay Strong

Institute of Atmospheric Physics, Chinese Academy of Sciences *2013 – 2016*
M.S. in Physical Oceanography
Advisor: Prof. Jiang Zhu

Nanjing University of Information Science & Technology *2009 – 2013*
B.S. in Atmospheric Sciences

PROFESSIONAL EXPERIENCE **Postdoctoral Research Associate** *2022 – present*
Princeton University, GFDL

Graduate Research Assistant *2017 – 2022*
University of Utah

Graduate Research Assistant *2013 – 2016*
Institute of Atmospheric Physics, Chinese Academy of Sciences

Visiting Graduate Student *2015*
Hong Kong University of Science and Technology

PUBLICATIONS **Li, X., Mace, G. G., Strong, C., & Krueger, S. K.** Wintertime low-level clouds over sea ice cool the Arctic climate system. (*2022, Submitted*)

Li, X., Krueger, S. K., Strong, C., & Mace, G. G. (2020). Relationship between midwinter leads and low clouds in the pan-Arctic. *Journal of Geophysical Research-Atmosphere*, 125(18), e2020JD032595. DOI:doi.org/10.1029/2020JD032595

Li, X., Krueger, S. K., Strong, C., Mace, G. G., & Benson, S. (2020). Midwinter Arctic Leads Form and Dissipate Low Clouds. *Nature Communications*, 11(1), 1–8. DOI: doi.org/10.1038/s41467-019-14074-5

Li, F., Song, J., & Li, X. (2018). A preliminary evaluation of the necessity of using a cumulus parameterization scheme in high-resolution simulations of Typhoon Haiyan. *Natural Hazards*, 92(2), 647–671. DOI: doi.org/10.1007/s11069-018-3218-y

Li, X., & Zhu, J. (2016). A weakly coupled data assimilation system of a coupled physical–biological model for the northeastern South China Sea. *Atmospheric and Oceanic Science Letters*, 9(5), 352–360. DOI: doi.org/10.1080/16742834.2016.1201788

AWARDS & FELLOWSHIPS **Arakawa Symposium Travel Fund** *2022*
Princeton AOS Postdoctoral Fellowship *2022 – 2024*
Chinese Government Award for Outstanding Students Abroad *2022*
Best Student Poster Presentation *2022*
(The 17th AMS Conference on Polar Meteorology and Oceanography)

Edward J. Zipser Award (Excellence in Graduate Research)	2022
Norihiko Fukuta Memorial Award	2020
NASA FINESST Grant (Future Investigators in NASA Earth and Space Science and Technology)	2019 – 2022
Travel Grant from the Global Change and Sustainability Center	2019
Graduate Student Travel Assistance Award (University of Utah)	2018
The First-Class Scholarship	2013
Chancellor’s Scholarship	2011
National Endeavor Scholarship (Nanjing University of Information Science & Technology)	2010, 2012

INVITED
TALKS

- Chinese Climate Dynamics Group Weekly Research Seminar, “Midwinter Arctic sea ice leads form and dissipate low clouds”, Online, *Apr 2022*
 - GFDL seminar, “Effects of sea ice leads on low-level clouds in the Arctic”, Online due to Covid-19, *Feb 2022*
 - University of Maryland, Baltimore County (UMBC), Department of Physics, “Effects of wintertime Arctic sea ice leads on low-level clouds”, Online due to Covid-19, *Feb 2021*
 - NASA Goddard AeroCenter-CPC seminar, “Effects of wintertime Arctic sea ice leads on low-level clouds”, Online due to Covid-19, *Feb 2021*
 - IARPC (Interagency Arctic Research Policy Committee) Atmosphere Team’s meeting, Lighting talk, “Low-level clouds in wintertime Arctic: Lead impacts and radiative forcing”, Online due to Covid-19, *Nov 2020*
 - Guest lecture at the graduate-level course ATMOS5300 (Atmospheric Thermodynamics & Boundary Layer Processes), “Dry and moist adiabatic lapse rate”, *Sep 2020*
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CONFERENCES

- A symposium in honor of Professor Akio Arakawa: Modeling Convection, Clouds and Climate Systems, *Oct 2022*, UCLA, CA. “Effects of wintertime Arctic Sea Ice leads on low-level clouds.” X. Li, S. K. Krueger, C. Strong, G. G. Mace and S. Benson [ORAL]
- AMS Conference on Polar Meteorology and Oceanography (Collective Madison Meeting), *Aug 2022*, Madison, WI. “Low-level Clouds over Sea Ice Cool the Arctic Climate System in Winter.” X. Li, G. G. Mace, C. Strong and S. K. Krueger [POSTER]
- The 3rd Pan-GASS Meeting: Understanding and Modeling Atmospheric Processes, *Jul 2022*, Monterey, CA. “Low-level Clouds Cool the Arctic Climate System in Winter.” X. Li, G. G. Mace, C. Strong and S. K. Krueger [POSTER]
- Cloud Feedback Model Intercomparison Project (CFMIP) Meeting, *Jul 2022*, Seattle, WA. “Low-level Clouds Cool the Arctic Climate System in Winter.” X. Li, G. G. Mace, C. Strong and S. K. Krueger [ORAL]
- AMS Conference on Polar Meteorology and Oceanography, *Jun 2021*, Virtual. “Towards a better low-level cloud retrieval in the Arctic Ocean.” X. Li, G. G. Mace, S. K. Krueger, and C. Strong [POSTER]
- AGU Fall Meeting, *Dec 2020*, Virtual. “Relationship between Wintertime Leads and Low Clouds in the Pan-Arctic.” X. Li, S. K. Krueger, G. G. Mace, C. Strong, and S. Benson [POSTER]
- Cloud Feedback Model Intercomparison Project (CFMIP) Meeting, *Sep 2020*, Virtual. “Relationship between Wintertime Leads and Low Clouds in the Pan-Arctic.” X. Li, S. K. Krueger, C. Strong and G. G. Mace [POSTER]
- CloudSat-CALIPSO Science Team Meeting, *Mar 2020*, Boulder, CO. “Relationship between Wintertime Leads and Low Clouds in the Pan-Arctic.” X. Li, S. K. Krueger, C. Strong and G. G. Mace [ORAL]
- GCSC Environment & Sustainability Research Symposium, *Feb 2020*, University of Utah, UT. “Effects of Midwinter Arctic Leads on Clouds and the Surface Energy Budget.” X. Li, S. K. Krueger, C. Strong and G. G. Mace [POSTER]
- AGU Fall Meeting, *Dec 2019*, San Francisco, CA. “Relationship between Wintertime Leads and Low Clouds in the Pan-Arctic.” X. Li, S. K. Krueger, C. Strong and G. G. Mace [ORAL]

- AMS Conference on Polar Meteorology and Oceanography, *May 2019*, Boulder, CO. “Effects of Midwinter Arctic Leads on Boundary Layer Clouds.” Li, X., S. K. Krueger, C. Strong and G. G. Mace [ORAL]
- AMS Conference on Cloud Physics, *Jul 2018*, Vancouver, BC. “Effects of Midwinter Arctic Leads on Clouds and the Surface Energy Budget.” X. Li, S. K. Krueger, C. Strong and G. G. Mace [POSTER]
- AOGS 13th Annual Meeting, *Aug 2016*, Beijing, China. “A Weakly Coupled Data Assimilation System of a Coupled Physical–Biological Model for the Northeastern South China Sea.” X. Li and J. Zhu [POSTER]

TRAINING & WORKSHOPS

- Leadership Development Seminars, *Oct 2021*, University of Utah
- NASA JPL Summer School, *Aug 2020*, Virtual due to Covid-19 “Satellite Observations and Climate Models”
- Three-Minute Thesis Program, *Apr 2020*, Career & Professional Development Center, University of Utah
- Nature Magazine Masterclass (a course designed to help students find more effective techniques and skills for writing high quality manuscripts that meet the standards of journals like Nature), *Apr 2019*, University of Utah
- NCAR Advanced Study Program Summer Colloquium, *Jun 2018*, Boulder, CO. “Synthesis of Observations and Models in Studies of Shallow and Deep Clouds”
- Student Summer Workshop in Earth and Atmospheric Sciences, *Jul 2017*, Chinese University of Hong Kong, Hong Kong, China
- Peking University Summer School on Extremely Heavy Rainfall, *Aug 2016*, Beijing, China
- The 9th National Ocean Data Assimilation Seminar, *Dec 2014*, Nanjing, China
- Workshop on Towards Data Assimilation of Physics-Biogeochemistry in the Ocean, *Nov 2014*, Beijing, China
- Winter School on Tropical Ocean Climate and Air-sea Interaction, *Nov 2014*, South China Sea Institute of Oceanology, Guangzhou, China

TEACHING

Teaching Assistant *Fall 2020*
 ATMOS5300: Atmospheric Thermodynamics & Boundary Layer Processes

SERVICE

Steering Committee *Mar 2021 – present*
 ECS & cloud feedback virtual symposia
Student Assistant *Jun 2021*
 The 16th Conference on Polar Meteorology and Oceanography
Student Assistant *May 2019*
 The 15th Conference on Polar Meteorology and Oceanography
Peer reviewer of manuscript
 Journal of Advances in Modeling Earth Systems, Journal of Geophysical Research