

CHONGXING FAN

https://cxfan-kamisama.github.io/cxfan_starfan/

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EDUCATION

University of Michigan, Ann Arbor

September 2019 - Present

Ph.D. Candidate in Climate and Space Sciences and Engineering

GPA: 4.00/4.00 (*as of Fall 2021*)

NanJing University

September 2015 - July 2019

Bachelor of Science in Atmospheric Sciences

GPA: 3.95/4.00

HONORS AND AWARDS

Rackham International Students Fellowship (UM)	<i>2020</i>
MICDE Fellowship (UM)	<i>2019</i>
Honorable Mention in the Mathematical Contest in Modeling (MCM, COMAP)	<i>2018</i>
Chow Tai Fook Scholarship (Top 1%, NJU)	<i>2018</i>
China's National Scholarship (Top 1%, NJU)	<i>2017</i>
Scholarship of Mr. Liao (Top 1%, NJU)	<i>2016</i>

PEER-REVIEWED PUBLICATIONS

1. **Fan, C.**, & Huang, X. (2021). Direct impact of solar farm deployment on surface longwave radiation. *Environmental Research Communications*, 3(12), 125006. <https://doi.org/10.1088/2515-7620/ac40f1>
2. **Fan, C.**, & Huang, X. (2020). Satellite-observed changes of surface spectral reflectances due to solar farming and the implication for radiation budget. *Environmental Research Letters*, 15(11), 114047. <https://doi.org/10.1088/1748-9326/abbdea>
3. **Fan, C.**, Wang, M., Rosenfeld, D., Zhu, Y., Liu, J., & Chen, B. (2020). Strong Precipitation Suppression by Aerosols in Marine Low Clouds. *Geophysical Research Letters*, 47(7), e2019GL086207. <https://doi.org/10.1029/2019GL086207>.

CONFERENCES, PROCEEDINGS, AND ABSTRACTS

1. **Fan, C.**, & Huang, X., Solar Farm as an ideal test bed for satellite surface emissivity and temperature retrieval algorithms. AGU Fall Meeting 2021, A15D-1667, December 13, 2021.
2. **Fan, C.**, & Huang, X., Satellite-observed changes of surface spectral reflectances due to solar farming and the implication for radiation budget. AGU Fall Meeting 2020, GC135-10, December 17, 2020.

RESEARCH PROJECTS

Climate Trends from the AIRS Long-Term Spectral Radiance *September 2020 - Present*

- Advisor: Prof. Xianglei Huang (University of Michigan, U.S.)

Satellite-Observed Changes of Surface Spectral Reflectances Due to Solar Farming and the Implication for Radiation Budget *September 2019 - August 2020*

- Advisor: Prof. Xianglei Huang (University of Michigan, U.S.)

Satellite Observation of Aerosol-Precipitation Relationship *September 2018 - July 2019*

- *Dissertation for Bachelor's Degree*
- Advisor: Prof. Minghuai Wang (Nanjing University, China)
- Co-Advisors: Prof. Daniel Rosenfeld, Dr. Yannian Zhu

Evaluation of Quantitative Precipitation Estimation from Model, Satellite and Radar *July 2018 - October 2018*

- *Globalink Research Internship*
- Advisor: Prof. Yongsheng Chen (York University, Canada)

Analysis of the Positive Correlation of Precipitation and Aerosol Using Satellite Data *October 2016 - October 2017*

- *National Excellent Research Project*
- Advisor: Prof. Minghuai Wang (Nanjing University, China)

INTERNSHIP EXPERIENCE

Meteorological Bureau of Hunan Province, China *February 2018*
Weather Forecaster, Intern

EXTRA-CURRICULUM ACTIVITIES

Daily Email Group for International Students *October 2019 - Present*

- All group members can write emails to other group members at any frequency they like to share their life, experiences, and stories. Not only can each member practice writing every day, but also they can learn useful expressions from native speakers in the group.
- I, as the organizer of this activity, was named to be the English Language Institute (ELI) Student of the Month in December 2019.
(<https://lsa.umich.edu/eli/news-events/all-news/dec19studentofthemonth.html>)

SKILLS

Programming Languages and Frameworks

C, Fortran, NCAR Command Language (NCL), Python, Visual Basic, Linux

Software

Word, Excel, Powerpoint, SPSS, L^AT_EX, Adobe Premiere