Dongwei (David) Fu

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EDUCATION

University of Illinois at Urbana-Champaign　　　　　　　　　　　　　　Champaign, IL
Ph.D. in Atmospheric Sciences　　　　　　　　　　　　　　December 2018 – present
Tentative thesis title: From the study of satellite retrieved cloud microphysics to a better understanding of aerosol-cloud interaction
　Master of Science in Atmospheric Sciences　　　　　　　　　　August 2015 – December 2018
　　Thesis: Examination of the behavior of MODIS-retrieved cloud droplet effective radius through MISR-MODIS data fusion

Wuhan University　　　　　　　　　　　　　　　　　　　　　　Wuhan, Hubei
Bachelor of Engineering in Remote Sensing Sciences and Technologies　　August 2011 – August 2015

PROFESSIONAL EXPERIENCE

Graduate Research Assistant at University of Illinois at Urbana-Champaign　　August 2015 – present
Advisor: Dr. Larry Di Girolamo (*Ph.D.*)

- *Validation for bi-spectral retrieved cloud effective radius from passive satellite sensors against aircraft measurements during the CAMP2Ex field campaign*
- *Implemented a bias-correction technique for the MODIS-retrieved cloud droplet effective radius through MISR-MODIS data fusion*
- *participated in the collaboration work for the Development of new theoretical framework for inferring ice crystal surface roughness from multi-angular sensor measurements*

PRESENTATIONS

Oral Presentations:

- Fu, D., Di Girolamo, L., Liang, L., and Zhao, G. (2018): Estimating the Regional Bias of MODIS-retrieved Cloud Droplet Effective Radius through MISR-MODIS Data Fusion, 15th Conference on Cloud Physics; and the 15th Conference on Atmospheric Radiation, Vancouver, British-Columbia, Canada.
- Fu, D., Di Girolamo, L., Liang, L., and Zhao, G. (2017): Estimating the Regional Bias of MODIS-retrieved Cloud Droplet Effective Radius through MISR-MODIS Data Fusion, University of Illinois, Department of Atmospheric Sciences Seminar. Urbana, Illinois, USA.
- Fu, D., Di Girolamo, L., Liang, L., Zhao, G., and Su, M. (2016): The Effects of Cloud Heterogeneity on Microphysical Retrievals through MISR-MODIS Data Fusion, MISR Science Team Meeting, Pasadena, California, USA.

Poster Presentations:

- Fu, D., Di Girolamo, L., Liang, L., and Zhao, G. (2018): Estimating the Regional Bias of MODIS-retrieved Cloud Droplet Effective Radius through MISR-MODIS Data Fusion, 2018 Midwest Student Conference on Atmospheric Research, Urbana, Illinois, USA.
- Fu, D., Di Girolamo, L., Liang, L., and Zhao, G. (2017): The Observed Behavior of the Bias in MODIS-retrieved Cloud Droplet Effective Radius through MISR-MODIS Data Fusion, AGU Fall Meeting, New Orleans, Louisiana, USA.

PUBLICATIONS

- Fu, D., Di Girolamo, L., Liang, L., & Zhao, G. (2019). Regional biases in MODIS marine liquid water cloud drop effective radius deduced through fusion with MISR. Journal of Geophysical Research: Atmospheres, 124, 13182– 13196. https://doi.org/10.1029/2019JD031063
- Wang, Y., Yang, P., Hioki, S., King, M. D., Baum, B. A., Di Girolamo, L., & Fu, D. (2019). Ice cloud optical thickness, effective radius, and ice water path inferred from fused MISR and MODIS measurements based on a pixel-level optimal ice particle roughness model. Journal of Geophysical Research: Atmospheres, 124, 12126– 12140. https://doi.org/10.1029/2019JD030457
- Wang, Y.; Hioki, S.; Yang, P.; King, M.D.; Di Girolamo, L.; Fu, D.; Baum, B.A. Inference of an Optimal Ice Particle Model through Latitudinal Analysis of MISR and MODIS Data. Remote Sens. 2018, 10, 1981.

LEADERSHIPS

2019 Midwest Student Conference for Atmospheric Research　　　　　　　　　　Urbana, IL

Head of Event and Planning Committee　　　　　　　　　　　　　　　　　　*02/2019-08/2019*
- In charge of the event and planning committee, including the timeline planning for the various sessions and events throughout the conference.

University of Illinois at Urbana-Champaign Chinese Student and Scholar Association (CSSA)　　　Champaign, IL

Graduates Department Vice Director　　　　　　　　　　　　　　　　　　*01/2017 – 05/2018*
- Lead director of several major events for the biggest student organization (with 400 active members) in the University of Illinois at Urbana-Champaign
- Providing immediate solutions for any emergency situations and unforeseen cases while communicating with multiple groups throughout the ongoing events.

SKILLS

- **Language:** English, Chinese
- **Computer:** Python, C, Matlab, Linux, NCL, ArcGIS, AutoCAD, Microsoft Word, Excel, PowerPoint