

YUECHUN WANG

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EDUCATION

- **Ph.D.** Atmospheric Science, Ohio State University, Columbus, OH **08/2016 – present**
- **B.S.** Atmospheric Science, Nanjing University, Nanjing, China **09/2012 – 06/2016**

RESEARCH INTERESTS

- Land-Atmosphere Interactions
- Regional Climate Modeling
- Soil Moisture

RESEARCH EXPERIENCE

- **PhD Dissertation Project** **05/2017 - present**

Advisor: Steven Quiring (Professor, Ohio State University)

Project: Investigating Soil Moisture–Precipitation Feedback on the North American Monsoon System in the WRF Model

- **NASA Project -- Graduate Research Associate** **09/2016 - present**

Advisor: Steven Quiring (Professor, Ohio State University)

Project: Investigating Soil Moisture – Convective Precipitation Feedbacks with Sol Moisture – Active Passive

- **School Lab Research -- Undergraduate Research Assistant** **10/2015 - 05/2016**

Advisor: HU, Haibo (Associate Professor, Nanjing University)

Project: Impact of Ocean Heat Transport on Westerly Jet in the North Pacific

Details:

- Calculated meridional heat transport through selected ocean cross sections and analyzed the time series of heat transport to find their relevance to lower-tropospheric westerly jet;
- Analyzed variations of LHF and SHF in the North Pacific as well as surface wind vector to verify possible feedback mechanisms;
- Completed graduation thesis: *Study of the impact of oceanic meridional heat transport on westerly jet during wintertime using WRF–ROMS regional coupled model simulations.*

■ **Summer Research Training** 07/2015 - 08/2015

Advisor: HU, Haibo (Associate Professor, Nanjing University)

Project: Learn basic methods of studying mid-latitude ocean–atmosphere interactions

Details:

- Got familiar with the theories of oceanic fronts' influences on mid-latitude atmosphere through CNIK, AMS and AGU;
- Summarized previous research findings and results and made a research proposal;

■ **Field Trip for National Undergraduate Atmospheric Sciences Students to Gansu Province of China** 07/2015

Advisor: WANG, Tijian (Professor, Assistant Dean, Nanjing University)

JIANG, Jing (Professor, Nanjing University)

Project: Study on the semiarid and arid climate in northwest China

Details:

- Finished a series of field observations during the trip;
- Completed one practice report.

PROFESSIONAL DEVELOPMENT

■ **Internship** 02/2015

Nanjing Municipal Meteorological Bureau

■ **Teaching Orientation** 08/2016

The Ohio State University, University Center for the Advancement of Teaching (UCAT)

CONFERENCE PRESENTATIONS

- **Y. Wang, S. Yuan, S. M. Quiring, T. W. Ford, A. Houston and L. Goldstein, 2017: Investigating Soil Moisture–Convective Precipitation Feedbacks Using In-Situ Soil Moisture in the Central United States.** Oral presentation at *2017 Annual American Geophysical Union Fall Meeting*, New Orleans, Louisiana. **12/14/2017**

SOCIAL ACTIVITIES

- Worked as NOC Assistant (interpreter of delegation) in 2nd Summer Youth Olympic Game **2014**
- Worked as Coordination Supervisor in 2nd Asia Youth Game **2013**

TECHNICAL SKILLS

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|--------------|-------------|----------|
| ■ C | ■ FORTRAN | ■ MATLAB |
| ■ NCL | ■ R | ■ WRF |
| ■ Javascript | ■ Html/ CSS | |
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