

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**
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RESEARCH EXPERIENCE

- **NASA Project -- Research Associate 9/2016 - present**
Advisor: Steven Quiring (Professor, Ohio State University)
Project: Investigating Soil Moisture – Convective Precipitation Feedbacks with Soil 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:
 - Determined positions of subtropical and subarctic oceanic fronts through distributions of SST and current velocity;
 - 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 -- Member 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;
 - Enhanced practical abilities by applying NCL into plot;

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

-- *Team Member* 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:

- Learned about advanced instruments used to monitor dust storm and other extreme climate and environment events by visiting meteorological observatories;
- Finished a series of field observations during the trip;
- Completed one practice report.

■ **Internship -- Assistant** 02/2015

Advisor: PEI, Haiying (Chief Forecaster, Nanjing Municipal Meteorological Bureau)

Project: Intern at Nanjing Municipal Meteorological Bureau

Details:

- Got familiar with the meteorological operation and acquired practical experiences of meteorological works;
- Learned the practical application of various numerical prediction products;
- Provided weather reports based on the MICAPS platform for a week.

CONFERENCE

- The 1st International Workshop on Understanding and Prediction of Rainfall Associated with Landfalling Tropical Cyclones
2015

TECHNICAL SKILLS

■ **C**

- Certified as 'Excellent' in Computer Rank Examination in Jiangsu Province;

■ **FORTRAN**

- Proficient in FORTRAN by using it for programming in many courses such as 'Numerical Methods'.

■ **MATLAB**

- Skillful at MATLAB through plotting in courses such as 'Radar Meteorology' and 'General Circulations of the Atmosphere'.

■ **NCL**

- Had been using NCL in school lab research.

■ **R**
