

# YUECHUN WANG

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## EDUCATION

- **Ph.D.** Atmospheric Sciences, Ohio State University, Columbus, OH GPA: 3.992/4 **08/2016 – present**
  - **B.S.** Atmospheric Sciences, Nanjing University, Nanjing, China GPA: 4.29/5 **09/2012 – 06/2016**
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## PROJECTS AND RESEARCH

- **Typhoon Damage Modeling Project -- Graduate Research Associate 08/2018 - present**  
**Advisor:** Steven Quiring (Professor, Ohio State University)  
**Project:** Developing models and tools to predict typhoon impacts for Guangdong (China) Power Grid Company ([https://94ycwang.github.io/GDpower\\_testdata/link1.html](https://94ycwang.github.io/GDpower_testdata/link1.html)).
- **Applied Climatology Class Project – Team Member 01/2018 – 04/2018**  
**Advisor:** Steven Quiring (Professor, Ohio State University)  
**Project:** Hurricane power outage geoviewer, a web-based application to visualize power outage model output geographically for the Texas Department of Emergency Management (<https://94ycwang.github.io/TDEM>).
- **Ph.D. 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  
**Details:**
  - Investigate how soil moisture initialization affects the simulations of North American Monsoon System in the Weather Research and Forecasting (WRF) model;
  - Evaluate the memory of initial soil moisture perturbations in 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 Soil Moisture – Active Passive (SMAP)  
**Details:**
  - Perform a sensitivity study on the response of convective initiation to in situ soil moisture in the central United States;
  - Compare the results based on in situ soil moisture with those based on satellite soil moisture products.
- **School Lab Research -- Undergraduate Research Associate 10/2015 - 05/2016**  
**Advisor:** Haibo Hu (Associate Professor, Nanjing University)  
**Project:** Impacts 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;
  - Completed graduation thesis: *Study of the impact of oceanic meridional heat transport on westerly jet during wintertime using WRF–ROMS regional coupled model simulations.*

- **Field Trip for National Undergraduate Atmospheric Sciences Students to Gansu Province of China** 07/2015  
**Advisor:** Tijian Wang (Professor, Assistant Dean, Nanjing University) and Jing Jiang (Professor, Nanjing University)  
**Project:** A study on the semiarid and arid climate in northwest China  
**Details:**

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

- **Internship** 02/2015  
Nanjing Municipal Meteorological Bureau  
**Details:**

- Acquired practical experience of meteorological operation;
  - Learned the practical applications of various numerical prediction products;
  - Provided weather reports based on the MICAPS platform for a week.
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## SKILLS

- **Programming Languages**
    - Proficient in C, Fortran, MATLAB, NCL, JavaScript, HTML, CSS;
    - Familiar with R, Python, PHP.
  - **Technologies / Environment**
    - Proficient in WRF\_ARW, Linux/Unix.
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## 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
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## SOCIAL ACTIVITIES

- Worked as National Olympic Committee (NOC) Assistant at 2<sup>nd</sup> Summer Youth Olympic Game 2014
  - Worked as Coordination Supervisor at 2<sup>nd</sup> Asia Youth Game 2013
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