

# Huanping Huang

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## Education

- Ph.D.**, Earth Sciences, **Dartmouth College**, Hanover, NH 2019  
Dissertation: “Assessing Precipitation Changes and Mechanisms Over the Northeastern United States”  
Advisors: Jonathan M. Winter & Erich C. Osterberg
- M.S.**, Meteorology, **Chinese Academy of Agricultural Sciences**, Beijing, China 2013  
Thesis: “Simulation and Comparison Study on the Impacts of Climate Change on Corn Productivity in China and Europe: A Case Study at Yulin and Bari”  
Advisor: Erda Lin
- B.S.**, Geographical Information System, **China Agricultural University**, Beijing, China 2010  
Thesis: “Investigation of Temporal and Spatial Variations in Grassland Enclosures in Middle Inner Mongolia by Remote Sensing”  
Advisors: Wei Zhang & Rongqun Zhang

## Professional Experience

- Lawrence Berkeley National Laboratory**, Berkeley, CA  
**Postdoctoral Scholar**, Climate and Ecosystem Sciences Division 9/2019–present
- Dartmouth College**, Hanover, NH  
**Research Assistant**, Department of Earth Sciences 9/2014–8/2019  
**Teaching Assistant**, EARS6 (Environmental Change) 9/2016–11/2016
- Chinese Academy of Agricultural Sciences**, Beijing, China  
**Research Associate**, Center for Research on Agriculture and Climate Change 7/2013–7/2014  
**Research Assistant**, Institute of Agricultural Environment and Sustainable Development 9/2010–6/2013  
**Teaching Assistant**, Office of International Education 8/2013–1/2014
- China Agricultural University**, Beijing, China  
**Research Assistant**, Department of Geographical Information Engineering 7/2010–8/2010

## Publications

### Articles

- Huang, H.**, Winter J.M., Osterberg E.C., & Mankin J.S. Assessing the Causes of the Post-1996 Shift in Extreme Precipitation Over the Northeastern United States. In preparation.
- Winter J.M., **Huang, H.**, Osterberg E.C., & Mankin J.S. Anthropogenic Impacts on the Exceptional Precipitation of 2018 in the Mid-Atlantic United States. *Bulletin of the American Meteorological Society*, in review
- Huang, H.**, Winter J.M., Hanrahan J., Bruyère C.L., Clemins P., & Beckage B.D. (2019). Simulating temperature and precipitation in the Lake Champlain basin using a regional climate model: Limitations

and uncertainties. *Climate Dynamics*, in press. <https://doi.org/10.1007/s00382-019-04987-8>

**Huang, H.**, Winter J.M., & Osterberg E.C. (2018). Mechanisms of abrupt extreme precipitation change over the northeastern United States. *Journal of Geophysical Research: Atmospheres*, 123, 7179–7192. <https://doi.org/10.1029/2017JD028136>

*Media coverage: AccuWeather, NBC5, New Hampshire Public Radio, Vermont Public Radio, WeatherNation TV, Concord Monitor, Valley News, The Sentinel, SmartBrief, Dartmouth Press Release*

**Huang, H.**, Winter J.M., Osterberg E.C., Horton R.M., & Beckage B. (2017). Total and extreme precipitation changes over the northeastern United States. *Journal of Hydrometeorology*, 18(6), 1783–1798. <https://doi.org/10.1175/JHM-D-16-0195.1>

*Media coverage: U.S. News & World Report, New England Cable News, New Hampshire Public Radio, Concord Monitor, Union Leader, Valley News, Yale Environment 360, Dartmouth Press Release*

Li, Y., **Huang, H.**, Ju, H., Lin, E., Xiong, W., Han, X., Wang, H., Peng, Z., Wang, Y., Xu, J., Cao, Y., & Hu, W. (2015). Assessing vulnerability and adaptive capacity to potential drought for winter-wheat under the RCP 8.5 scenario in the Huang-Huai-Hai Plain. *Agriculture, Ecosystems & Environment*, 209, 125–131. <https://doi.org/10.1016/j.agee.2015.03.033>

**Huang, H.**, Ma, S., Lin, E., Li, Y., & Zhuang, H. (2013). Benefits comparison analysis of different rice and wheat cropping patterns to adapt to climate change. *Advances in Climate Change Research*, 4(3), 182–189. <https://doi.org/10.3724/SP.J.1248.2013.182>

### **Book Chapters**

Ma, Z., Wang, H., & **Huang, H.** (2015). Chapter 6: Building low carbon villages. In: *Low carbon agriculture and forestry* [Lin, E., Guo, L., Han, X., & Li, Y. (Eds.)]. China Environmental Science Press, pp.142–175.

McDermid, S.P., Ruane, A.C., Rosenzweig, C., ..., **Huang, H.** (41/100), ..., Zubair, L. (2015). Chapter 8: Global Estimates of Climate Impacts on Agriculture. In: *Handbook of Climate Change and Agroecosystems: The Agricultural Model Intercomparison and Improvement Project (AgMIP) Integrated Crop and Economic Assessments*. ICP Series on Climate Change Impacts, Adaptation, and Mitigation Vol. 3 [Rosenzweig, C., and Hillel, D. (Eds.)]. Imperial College Press, pp.191–220.

## **Honors & Awards**

<b>Best Student Publication</b> , Department of Earth Sciences at Dartmouth	2019
<b>Outstanding Graduate Student Teacher</b> , Dartmouth Center for the Advancement of Learning	2019
<b>1<sup>st</sup> Place</b> , STEPS 4th Annual Science and Technology Policy Brief Competition	2018
<b>2<sup>nd</sup> Place</b> , Thayer Consulting Club Case Competition (Sponsored by McKinsey, L.E.K, & Google)	2018
<b>Travel Fund</b> , School of Advanced Studies and Advanced Studies at Dartmouth	2018
<b>Professional Development Fund</b> , School of Advanced Studies and Advanced Studies at Dartmouth	2017
<ul style="list-style-type: none"><li>Awarded for Congressional Visit Day advocating for federal science funding</li></ul>	
<b>Gary Malone Award</b> , Department of Earth Science at Dartmouth	2016
<ul style="list-style-type: none"><li>Awarded to a Dartmouth geologist who best exemplifies the spirit of the department</li></ul>	
<b>High Morality Prize</b> , China Agricultural University	2008
<ul style="list-style-type: none"><li>One of four selected from 14,000 undergraduate students university-wide</li></ul>	

## Teaching Experience

<b>Guest Lecturer</b> , AP Biology, Hartford High School	2019
<b>Instructor</b> , International TAs Orientation, Dartmouth College	2018
<b>Guest Lecturer</b> , Meteorology, Crossroads Academy	2018
<b>Lecturer</b> , Science Day (Jet Stream: Flowing Rivers of Air), Dartmouth College	2017
<b>Lead Teaching Assistant</b> , Environmental Change, Dartmouth College	2016
<b>Lecturer</b> , Science Day (Clouds in a Cup), Dartmouth College	2016
<b>Lecturer</b> , Crop and Climate Modeling, Chinese Academy of Agricultural Sciences	2014
<b>Teaching Assistant</b> , Office of International Education, Chinese Academy of Agricultural Sciences	2014

## Presentations

### Invited Talks

AVA Gallery and Art Center (Lebanon, NH) Title: “Bridging the Gap between Changing Climate and Art”	2019
Lawrence Berkeley National Laboratory (Berkeley, CA) Title: “Assessing Extreme Precipitation Changes and Mechanisms Over the Northeastern United States”	2019
Vermont EPSCoR All Hands Meeting (Burlington, VT) Title: “The Calibration and Evaluation of WRF Model Over Lake Champlain Basin”	2018
NOAA NWS Northeast River Forecast Center (Norton, MA) Title: “Total and Extreme Precipitation Changes over the Northeastern United States”	2017
UK–China Sustainable Agriculture Innovation Network Outreach Conference (Beijing, China) Title: “Benefits Comparison of Different Rice and Wheat Cropping Patterns to Adapt to Climate Change”	2012

### Posters

- Huang, H.**, Winter J.M., Hanrahan J., Bruyère C.L., Clemens P., & Beckage B. (2018). Simulating extreme precipitation in the Lake Champlain basin using a regional climate model: Limitations and uncertainties. 2018 AGU Fall Meeting, Washington D.C., 11 December 2018, Paper No. A21L–2903.
- Huang, H.**, Winter J.M., & Osterberg E.C. (2017). Mechanisms of the extreme precipitation jump in the northeastern United States after 1996. 2017 AGU Fall Meeting, New Orleans, 14 December 2017, Paper No. A41C–2291.
- Huang, H.**, Winter J.M., Osterberg E.C., Horton R.M., & Beckage B. (2016). Total and extreme precipitation changes over the northeastern United States. 2016 AGU Fall Meeting, San Francisco, 12 December 2016, Paper No. GC11B–1127.

### Conference Presentations

- Huang, H.**, Gao, F., & Lin, E. (2013). “Bibliometric analysis of journal articles on the impact of climate change on agriculture”. The 30<sup>th</sup> Annual Conference of Chinese Meteorological Society, Nanjing, China.
- Huang, H.**, Xiong, W., & Lin, E. (2012). “The impact of climate change on rice production and adaptation measures in Seville”. The 29<sup>th</sup> Annual Conference of Chinese Meteorological Society, Shenyang, China.

## Services

<b>Student Representative</b> , Earth Sciences Faculty Meetings, Dartmouth College	2018–2019
<b>President</b> , Chinese Students and Scholars Association, Dartmouth College	2017–2018
<b>Graduate Liaison</b> , Science Technology and Engineering Policy Society, Dartmouth College	2016–2017
<b>Co-chair</b> , Geolunch Series Seminar, Department of Earth Sciences, Dartmouth College	2015–2016
<b>Representative</b> , The Student Working Group for Inclusive Excellence, Dartmouth College	2016
<b>Department Representative</b> , Graduate Student Council, Dartmouth College	2016
<b>Co-director</b> , Like A Rock Mentoring Program, Department of Earth Sciences, Dartmouth College	2015–2017
<b>Mentor</b> , The International Graduate Student Mentoring Program, Dartmouth College	2015–2017
<b>Co-chair</b> , Student Committee for Faculty Search, Department of Earth Sciences, Dartmouth College	2015
<b>Founding President</b> , Youyang Orchestra, Chinese Academy of Agricultural Sciences	2014

## Professional Organizations

American Geophysical Union	2016–present
American Meteorological Society	2018–present