

Ning Zhang

Department of Geography
Derby Hall 1131
Ohio State University
Columbus, Ohio, 43210
Email: zhang.7819@osu.edu

Education

- 2013 Ph.D., Cartography and GIS, Peking University, Beijing, China.
2008 B.E., Geographic Information System, Chang'an University, Shaanxi, China.

Research Interests

Drought Monitoring and Water Resources Management
Applied Climatology
Agricultural Remote Sensing on Crop Monitoring and Yield Estimation
Geographic Information Science

Professional Experience

- 2016- present Department of Geography, Ohio State University, **Graduate research assistant**
2015- 2016 Department of Geography, Texas A&M University, **Graduate research assistant**
2013- 2014 Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences (CAS), **Research assistant**
2011-2012 Hydrometeorology and Remote Sensing Laboratory at the National Weather Center, Norman, Oklahoma, **Joint PhD student**
2009-2011 Quantitative Remote Sensing Summer School, Peking University, **Course assistance**
2008-2013 School of Earth and Space Sciences, Peking University, **Graduate research assistant**

Publications

- [1] **Ning Zhang**, Chen Zhao, Steven Quiring, Jinlin Li. (2017). Winter wheat yield prediction using NDVI and agro-climate parameters in Oklahoma. *Agronomy Journal*. doi: 10.2134/agronj2017.03.0133
[2] **Ning Zhang**, Steven Quiring, Tyson Ochsner, Trenton Ford. (2017). Comparison of three methods for vertical extrapolation of soil moisture in Oklahoma. *Vadose Zone Journal*. doi: 10.2136/vzj2017.04.0085
[3] René Gommès, Bingfang Wu, **Ning Zhang**, Xueliang Feng, Hongwei Zeng, Zhongyuan Li, Bo Chen. (2016). CropWatch agroclimatic indicators (CWAIs) for weather impact assessment on global agriculture. *International Journal of Biometeorology*. 1-7, doi:10.1007/s00484-016-1199-7
[4] **Ning Zhang**. (2016) Chapter 2: Crop Yield Forecasting in China in *Crop Yield Forecasting: Methodological and Institutional Aspects* (pp.53-82). Food and Agriculture Organization of The United Nations, Rome
[5] Bingfang Wu, René GOMMES, Miao Zhang, Hongwei Zeng, Nana Yan, Wentao Zou, Yang Zheng, **Ning Zhang**, Sheng Chang, Qiang Xing, Anna van Heijden. (2015) *Global Crop Monitoring: A*

- Satellite-Based Hierarchical Approach. *Remote Sensing*. 7(4), 3907-3933.
- [6] **Ning Zhang**, Yang Hong, Qiming Qin, Lu Liu. (2013). VSDI: A Visible and Shortwave Infrared Drought Index for monitoring soil and vegetation moisture based on optical remote sensing. *International Journal of Remote Sensing*, 34 (13): 4585-4609
- [7] **Ning Zhang**, Yang Hong, Qiming Qin, Lin Zhu. (2013). Evaluation of the visible and shortwave infrared drought index in China. *International Journal of Disaster Risk Science*. 4(2): 68-76
- [8] **Ning Zhang**, Qiming Qin, Lian He, Hongbo Jiang. (2012). Remote sensing and GIS based geothermal exploration in southwest Tengchong, China. 2012 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2012): 5364-5367
- [9] Qiming Qin, **Ning Zhang**, Peng Nan, Leilei Chai. (2011). Geothermal area detection using Landsat ETM+ thermal infrared data and its mechanistic analysis - A case study in Tengchong, China. *International Journal of Applied Earth Observation and Geoinformation*, 13(4): 552-559
- [10] Qiming Qin; Chuan Jin; **Ning Zhang**; Xuebin Yang. (2010). An two-dimensional spectral space based model for Drought monitoring and its re-examination, 2010 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2010): 3869-3872

Conference Presentations

- 2017, May Poster on “Methods on root-zone soil moisture estimation using surface measurements” in the 2017 Workshop at MOISST: Integrating Diverse Sources of Soil Moisture Information, Stillwater, Oklahoma, USA.
- 2017, Apr. Oral presentation on “Study on Vertical Extrapolation of Soil Moisture Measurements” in the 2017 American Association of Geographers (AAG) Annual Meeting, Boston, Massachusetts, USA.
- 2016, Dec. Poster on “Comparison of Three Methods for Vertical Interpolation of Soil Moisture” in the 2016 American Geophysical Union (AGU) Fall Meeting, San Francisco, California, USA
- 2016, May Poster on “Soil Moisture-Based Drought Monitoring for the South Central Region” in the 2016 Workshop at MOISST: The Growing Science of Soil Moisture Sensing, Stillwater, Oklahoma, USA
- 2016, Mar. Oral presentation on “Winter wheat yield prediction based on NDVI and climate parameters in Oklahoma” in the Third Annual Symposium of the Association Of Geography Graduate Students (AGGS) Symposium, Texas A& M University, Texas, USA.
- 2016, Mar. Oral presentation on “Comparison of different methods in root-zone soil moisture estimation using surface measurements” in Student Research Week, Texas A&M University, Texas, USA.
- 2014, Feb. Poster on “Update on Remote Sensing Based Global Agricultural Monitoring With CropWatch” in Global Vegetation Monitoring and Modeling, Avignon, France;
- 2012, July Oral presentation on “Remote sensing and GIS based geothermal exploration in southwest Tengchong, China.”, IGARSS 2012 in Munich, Germany;
- 2010, July Oral presentation on “An two-dimensional spectral space based model for Drought monitoring and its re-examination”, 2010 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2010) in Honolulu, Hawaii, USA;