

## Biographical Sketch

### Yuting Zhou

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#### (A) PROFESSIONAL PREPARATION

Shandong University of Science and Technology	Shandong, China	Resource, Environment, and Urban/Rural Planning and Management	B.S., 2010
Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences	Beijing, China	Ecology	M.S., 2013
University of Oklahoma	Norman, Oklahoma	Ecology and Evolutionary Biology	Ph.D., 2017
Oklahoma State University	Stillwater, Oklahoma	Plant and Soil Sciences	Post-Doctoral Fellow, 2017

#### (B) APPOINTMENTS

August 15, 2019      Assistant Professor, Department of Geography, Oklahoma State University

#### (C) PRODUCTS

##### (i) Most Closely Related to the Proposed Project

1. **Zhou, Y.**, Xiao, X., Zhang, G., Wagle, P., Bajgain, R., Dong, J., Jin, C., Basara, B.J., Anderson, C. M., Hain, R.C., Otkin, A. J. 2017. Quantifying Agricultural Drought in Tallgrass Prairie Region in the U.S. Southern Great Plains through Analysis of a Water-related Vegetation Index from MODIS Images. *Agricultural and Forest Meteorology*. 246:111-122.
2. **Zhou, Y.**, Xiao, X., Wagle, P., Bajgain, R., Mahan, H., Basara, B.J., Dong, J., Qin, Y., Zhang, G., Luo, Y., Gowda, P.H., Neel, J.P.S., Steiner, J.L. 2017. Examining the Short-term Impacts of Diverse Management Practices on Plant Phenology and Carbon Fluxes of Old World Bluestems Pasture. *Agricultural and Forest Meteorology*. 237-238:60-70.
3. Doughty, R., Xiao, X., Wu, X., Zhang, Y., Bajgain, R., **Zhou, Y.**, Qin, Y., Zou, Z., McCarthy, H., Friedman, J. and Wagle, P. 2018. Responses of Gross Primary Production of Grasslands and Croplands under Drought, Pluvial, and Irrigation Conditions during 2010–2016, Oklahoma, USA. *Agricultural Water Management*. 204:47-59.
4. **Zhou, Y.**, Gowda, P., Wagle, P., Ma, S., Neel, J.P.S., Kakani, V.G., Steiner, J.L. 2019. Climate Effects on Tallgrass Prairie Responses to Continuous and Rotational Grazing. *Agronomy*. 9(5):219.
5. Ma, S., **Zhou, Y.**, Gowda, P., Chen, L., Starks, P.J., Steiner, J.L., Neel, J.P.S. 2019. Evaluating the Impacts of Continuous and Rotational Grazing on Tallgrass Prairie Landscape Using High-Spatial-Resolution Imagery. *Agronomy*. 9(5):238.

(ii) *Other Significant Products*

1. Dong, J., Xiao, X., Kou, W., Qin, Y., Zhang, G., Li, L., Jin, C., **Zhou, Y.**, Wang, J., Biradar, C., Liu, J., Moore III, B. 2015. Tracking the Dynamics of Paddy Rice Planting area in 1986–2010 through Time series Landsat Images and Phenology-based Algorithms. *Remote Sensing of Environment*. 160:99-113.
2. Wagle, P., Xiao, X., Scott, R. L., Kolb, T. E., Cook, D. R., Brunsell, N., Baldocchi, D. D., Basara, J., Matamala, R., **Zhou, Y.**, Bajgain, R. 2015. Biophysical Controls on Carbon and Water Vapor Fluxes across Grassland Climatic Gradient in the United States. *Agricultural and Forest Meteorology*. 214:293-305.
3. **Zhou, Y.**, Xiao, X., Qin, Y.W., Dong, J.W., Zhang, G.L., Kou, W.L., Jin, C., Wang, J., Li, X.P. 2016. Mapping Paddy Rice Planting Area in Rice-wetland Mixed Areas through Analysis of Landsat 8 OLI and MODIS Images. *International Journal of Applied Earth Observation and Geoinformation*. 46:1-12.
4. Bajgain, B., Xiao, X., Basara, J., Wagle, P., **Zhou, Y.**, Zhang, Y., Mahan, H. 2016. Assessing Agricultural Drought in Summer over Oklahoma Mesonet Sites using the Water-related Vegetation Index from MODIS. *International Journal of Biometeorology*. 61(2):377-390.
5. Ma, S., **Zhou, Y.**, Chen, L., Gowda, P., Dong, J., Zhang, G., Kakani, V., Wagle, P., Chen, L., Flynn, K.C., Jiang, W. 2019. Water Related Spectral Reflectance Indices: A review. *Ecological Indicators* 98:68-79.

**(D) SYNERGISTIC ACTIVITIES**

- Student Liaison, GIS Day at the University of Oklahoma (2014 and 2015)
- Teaching Assistant for the course: *Environmental Remote Sensing* at the University of Oklahoma (2014 and 2015). Assisted in developing syllabus and in-charge of one of the four sections.
- Algorithm developer, Agricultural drought monitoring (2017). Developed an algorithm to monitor agricultural drought in tallgrass prairie region.
- Chair, *American Geographical Union (AGU) Fall Meeting* (2018). Chaired one session titled “Use Remote Sensing and Eddy Covariance Techniques to Quantify the Impacts of Climate and Managements on Grassland (B33H)”.
- Faculty Mentor, *McNair Scholars Program* at Oklahoma State University (2019). Guided a student in the development of a research question, implementation of research activities, the collection of data, and the completion of a research project.