Dr. Fei Li

Postdoctor, Michigan State University

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Dr. Li devotes his time to interdisciplinary research with the assistance of Remote Sensing and Geospatial technologies in the fields of Geography and Ecology. He has a rich background conducting field experiments and processing and analysing time series remote sensing data, amongst other experience. The scientific questions he explores focus on how terrestrial ecosystems at regional and global scales respond to the changing climate coupled with intensive disturbance from human activity. His current focus in the LEES lab is monitoring and evaluating sustainability of the grassland biome in the context of climate warming on the Mongolian Plateau.

Education

Postdoctor | February 2017 – Present
Center for Global Change and Earth Observation, Michigan State University, USA

Assistant professor | July 2014 – February 2017
Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, China

Ph.D., Cartography and Geographic Information System | July 2011 – July 2014
Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

Lecturer | July 2009 - July 2011
College of Geography, Chuzhou University, China

M.S. Geography (Remote Sensing) | July 2006 – July 2009
College of Geography and Environmental science, Northwest Normal University, China

B.S. Geography (Geographic Information System) | July 2002 – July 2006
College of Geography and Environmental science, Northwest Normal University, China

Publications

Journal Paper

1. **Li, F.***, J. Chen, Y. Zeng, B. F. Wu, X. Q. Zhang. Renewed estimates of grassland aboveground biomass showing drought impacts. *Journal of Geophysical Research - Biogeosceicnes* (online).
2. **Li, F.***, & Zhang, X. (2017). Heat Response of Global Vegetation Biomes to Ongoing Climate Warming Based on Remote Sensing. *Geosciences*, 7, 83.
3. Liu, P., Li, C., & **Li, F.** (2017). Texture-Cognition-Based 3D Building Model Generalization. *ISPRS International Journal of Geo-Information*, 6, 260.
4. Zhang, X., Yamaguchi, Y., **Li, F.***, He, B., & Chen, Y. (2017). Assessing the Impacts of the 2009/2010 Drought on Vegetation Indices, Normalized Difference Water Index, and Land Surface Temperature in Southwestern China. *Advances in Meteorology, 2017*, 9.
5. Zheng, J., **Li, F.***, & Du, X. (2017). Using Red Edge Position Shift to Monitor Grassland Grazing Intensity in Inner Mongolia. *Journal of the Indian Society of Remote Sensing*, 46(1), 81-88.
6. **Li, F.***, Y. Bai, H. Wan, J. Zheng, J. Luo, D. Zhao, and P. Liu (2016), Quantifying Grazing Intensity in China Using High Temporal Resolution MODIS Data, *Ieee J-Stars*, *10(2), 515-523.*
7. Jiang, L., J. Zhang, X. Liu, and **F. Li** (2016), Multi-fractal scaling comparison of the Air Temperature and the Surface Temperature over China, *Physica A: Statistical Mechanics and its Applications*, *462*, 783-792.
8. **Li, F.***, Y. Zhao, J. Zheng, J. Luo, and X. Zhang (2016a), Monitoring grazing intensity: an experiment with canopy spectra applied to satellite remote sensing, *Journal of Applied Remote Sensing*, *10*(2), 026032.
9. **Li, F.***, Y. Zeng, J. H. Luo, R. H. Ma, and B. F. Wu (2016), Modeling grassland aboveground biomass using a pure vegetation index, Ecological Indicators, 62, 279-288.
10. **Li, F.***, J. Zheng, H. Wang, J. Luo, Y. Zhao, and R. Zhao (2016b), Mapping grazing intensity using remote sensing in the Xilingol steppe region, Inner Mongolia, China, *Remote Sens Lett*, *7*(4), 328-337.
11. Zheng, J., C. Ke, Z. Shao, and **F. Li** (2016), Monitoring changes in the water volume of Hulun

Lake by integrating satellite altimetry data and Landsat images between 1992 and 2010, *Journal of Applied Remote Sensing*, *10*(1), 016029-016029.

12. Luo, J., X. Li, R. Ma, **F. Li**, H. Duan, W. Hu, B. Qin, and W. Huang (2016), Applying remote sensing techniques to monitoring seasonal and interannual changes of aquatic vegetation in Taihu Lake, China, *Ecological Indicators*, *60*, 503-513.
13. Wu, X., A. Akujärvi, N. Lu, J. Liski, G. Liu, Y. Wang, M. Holmberg, **F. Li**, Y. Zeng, and B. Fu (2015), Dynamics of soil organic carbon stock in a typical catchment of the Loess Plateau: comparison of model simulations with measurements, *Landscape Ecol*, 1-17.
14. Yuan, H., R. Ma, C. Atzberger, **F. Li**, S. A. Loiselle, and J. Luo (2015), Estimating Forest fAPAR from Multispectral Landsat-8 Data Using the Invertible Forest Reflectance Model INFORM, *Remote Sensing*, *7*(6), 7425-7446.
15. **Li, F.**, W. Chen, Y. Zeng, Q. Zhao, and B. Wu (2014), Improving Estimates of Grassland Fractional Vegetation Cover Based on a Pixel Dichotomy Model: A Case Study in Inner Mongolia, China, *Remote Sensing*, *6*(6), 4705-4722.
16. **Li, F.**, Y. Zeng, X. S. Li, Q. J. Zhao, and B. F. Wu (2014), Remote sensing based monitoring of interannual variations in vegetation activity in China from 1982 to 2009, *Sci China Earth Sci*, *57*(8), 1800-1806.
17. Jiang, L., X. Zhao, N. Li, **F. Li**, and Z. Guo (2013), Different Multifractal Scaling of the 0 cm Average Ground Surface Temperature of Four Representative Weather Stations over China, *Advances in Meteorology*, *2013,* 341934.
18. **Li, F.***, X. Wang, J. Zhao, X. Zhang, and Q. Zhao (2013a), A method for estimating the gross primary production of alpine meadows using MODIS and climate data in China, *International Journal of Remote Sensing*, *34*(23), 8266-8286.
19. **Li, F.***, L. Jiang, X. Wang, X. Zhang, J. Zheng, and Q. Zhao (2013b), Estimating grassland aboveground biomass using multitemporal MODIS data in the West Songnen Plain, China, *Journal of Applied Remote Sensing*, *7*(1), 073546.