

Tong Jiao

Clark University, Geography Department
Geography Building, CoFERT
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EDUCATION

Clark University

PHD, Geography Department

Worcester
expected 2019

Institute of Geographic Sciences and Natural Resources Research
MS in Quantitative Remote Sensing

Beijing
July 2014

Beijing Forestry University

BS in Geographic Information System (1/24, Major GPA: 3.85)

Beijing
July 2011

RESEARCH INTERESTS

I'm interested in the investigation of forest ecosystem carbon, water and energy dynamics by using field measurements, remote sensing and modeling.

PUBLICATION

Tong Jiao, Ronggao Liu, Yang Liu, Jan Pisek and Jing M. Chen, Mapping global seasonal forest background reflectivity with Multi-angle Imaging Spectro Radiometer (MISR) data, *Journal of Geophysical Research-Biogeosciences*. DOI: 10.1002/2013JG002493

Tong Jiao, Ronggao Liu, Yang Liu and Jing M. Chen, The Progress of Forest Understory Retrieval from Remote Sensing (In Chinese), *Journal of Geophysical Information Science*. DOI:10.3724/SP.J.1047.2014.00602

RESEARCH EXPERIENCE

Institute of Geographic Sciences and Natural Resources Research

Graduate Student; Advisor: Professor Ronggao Liu

Beijing
2011 – July 2014

Retrieve, analyze and validate global forest background reflectivity

- Improve the estimation of leaf area index by separating the contribution of forest canopy from that of understory in remote sensing images
- The 973 project “Study on the mechanisms of global terrestrial carbon source and sink dynamics and their optimized calculation” (PI: Jingming Chen, co-PI: Ronggao Liu)

Beijing Forestry University

Undergraduate Student; Advisor: Associate Professor Huaguo Huang

Beijing
2009-2010

Extracted and classified Euphrates Poplar in Ejin banner of Inner Mongolia based on cluster analysis and remote sensing images from Google

- Provide scientific basis for the protection and management of Euphrates Poplar in Ejin banner of Inner Mongolia
- Course Design of Geographical Model

PRESENTATIONS

- The validation of global forest background reflectance (In Chinese) presented at the annual meeting of project “Retrieval of carbon-sensitive parameters from remote sensing data” (973 Program) on August 8, 2013, Beijing, China.
- The geographic analysis of global forest background reflectance from 2000 to 2010 (In Chinese) presented at the progress report of project “Retrieval of carbon-sensitive parameters from remote sensing data” (973 Program) on May 11, 2013, Beijing, China.
- The retrieval of global forest background reflectance and the analysis of results in 2007 (In Chinese) presented at the 2012 annual meeting of the National Basic Research Program of China (973 Program) for Global Change on December 20, 2012, Beijing, China.

SKILLS

C/C++ program (proficient and efficient in processing massive data (>100TB))
MODIS data and HDF dataset interface (Familiar)
Proficient in statistical analysis and software (Matlab)
Flexible use of GIS and RS software (ArcGIS, ENVI and ERDAS)