

## Curriculum Vitae

# Xiaojuan Lin

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## EDUCATION

**Institute of Remote Sensing and Digital Earth of Chinese Academy of Sciences** 09/2018~06/2021  
(Beijing, China)

Master of Science in Cartography and Geographical Information System

**China West Normal University** (Sichuan, China) 09/2014~08/2018

Bachelor of Science in Geographic Information Science 1/80

## RESEARCH EXPERIENCE

**Structural parameter mapping of regional Planted Forest using remote sensing technique, National Key Research and Development Project** 07/2019~Present

- Extrapolated the forest height at the regional scale using the artificial neural network (BP-ANN) model based on the forest resource inventory data and Landsat data
- Participated in field experiments and evaluated the accuracy of forest height mapping

**Forest Aboveground Biomass Estimation & Monitoring in China** 01/2020~02/2020

- Collected and filtered the ICESat\_2 ATLAS data for further processing
- Planning to update the time-series forest biomass mapping of China based on GLAS data using the most recent ICESat\_2 ATLAS data and analyze the trend of AGB change.

**Wetland ecosystem evaluation of Hongze Lake, Jiangsu Province, China, Project of State Forestry Administration** 09/2017~10/2017

- Collected the wetland time series images of Hongze Lake in Jiangsu Province and extracted the wetland area and changes
- Applied the Analytic Hierarchy Process (AHP) and combined with the measured soil attribute data to evaluate the wetland ecosystem health status

**Changes of Land Use/Land Cover and Ecosystem Service Values in Chengdu City during 1992–2018** 07/2018~01/2019

- Identified the trend and spatial patterns of LULC changes and their influence on ecosystem service values and functions based on LULC data retrieved from remote-sensing interpretation

**Land Cover Change Assessment of Wenchuan Earthquake Disaster Area Based on Quest Decision Tree** 01/2018~05/2018

- Created decision tree and monitored the time-series land cover mapping of Dujiangyan city based on QUEST algorithm with the vegetation index, terrain information, texture feature information

**Calibration of TRMM 3B43 over North China during 2007-2013, Class Project** 10/2018-01/2019

- Calibrated remote sensing rainfall data (TRMM 3B43) using random forest algorithm and actual rainfall data of ground stations
- Evaluated calibration accuracy using stand-alone station data

**Identifying Urban Boundaries by Clustering Street Node Based on Neighborhood Dilation Curve, China West Normal University (CMNU)** 01/2017-06/2017

- Proposed a new method to identify urban boundaries by clustering street nodes based on neighborhood dilation curves using the principles of fractal geometry and Baidu map road network data

**Study on Optimum Population of Beijing Based on the Comprehensive Carrying Capacity, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences (CAS)** 07/2016-12/2016

- Constructed an appropriate population measurement model and synthetically analyzed the scale of optimum population and carrying population of Beijing from 2004 to 2014 based on comprehensive carrying capacity from three aspects of economy, ecology and resources

## PEER - REVIEWED JOURNAL PUBLICATIONS

1. LIN X, XU M, CAO C, et al. Estimates of forest canopy height using ICESat-2/ATLAS data [J]. Remote Sensing, 2020, 12(21): 3649.
2. LIN X, XU M, CAO C, et al. Land-Use/Land-Cover Changes and Their Influence on the Ecosystem in Chengdu City, China during the Period of 1992–2018 [J]. Sustainability, 2018, 10(10). <https://www.mdpi.com/2071-1050/10/10/3580/htm>
3. LIN X, FANG S, XU Y, et al. Identifying urban boundaries by clustering street node based on neighborhood dilation curve: A case study of Chengdu, Xi'an, Wuhan, Nanjing and Changsha [J]. Progress in Geography, 2018, 37(06): 781-9. (In Chinese)
4. LIN X, FANG S, Du J, et al. Study on Optimum Population of Beijing Based on the Comprehensive Carrying Capacity [J]. Journal of Geo-information Science, 2017, 19(11): 1495-503. (In Chinese)
5. XIE B, CAO C, XU M, et al. Regional Forest Volume Estimation by Expanding LiDAR Samples Using Multi-Sensor Satellite Data [J]. Remote Sensing, 2020, 12(3): 360. (SCI)
6. HUANG Z, CAO C, CHEN W, et al. Remote Sensing Monitoring of Vegetation Dynamic Changes after Fire in the Greater Hinggan Mountain Area: The Algorithm and Application for Eliminating Phenological Impacts [J]. Remote Sensing, 2020, 12(1): 156. (SCI)

## ACTIVITIES

International Conference for the Decade Memory of the Wenchuan Earthquake with the 4th International Conference Earthquake (ICCE)	05/2018
The 6th Beijing Graduate Ecology Forum	10/2018
The 3th Map World Application and Development Competition, Team Leader	09/2016-02/2017
Volunteer of Esri China User Conference	10/2017~10/2017

## ADWORDS & HONORS

<b><u>National Scholarship</u></b> , Top 0.6%	10/2017
<b>Outstanding Graduates of Sichuan Province</b> , Top 1%	05/2018
<b>University Student Scholarship of Chinese Academy of Sciences</b> , Top 10%	01/2019

## LANGUAGES & SKILLS

**TOEFL:** 95; **GRE:** 314

**Computer Skills:** Python, MATLAB, ArcGIS, ENVI, PCI, TerraSolid, R, C++, QGIS, AutoCAD.