

Baohui Chai

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Ph.D. candidate, Peking University, Beijing, China
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EDUCATION

- 2017- Yale University, School of Forestry and Environmental Studies, New Haven, CT, US
Visiting Ph.D. student
- 2014- Peking University, School of Earth and Space Sciences, Beijing, China
Ph.D. Candidate
Major: Photogrammetry and Remote Sensing
Research Direction: Urban remote sensing and analysis
- 2010-2014 Peking University, School of Earth and Space Sciences, Beijing, China
Bachelor's Degree
Major: Geographic Information System

RESEARCH INTEREST

- Urban remote sensing
- Extraction of land cover change using time series data
- Spatio-temporal analysis of land cover change obtained from remote sensing

PUBLICATIONS

- **Chai, B.,** Li, P. (2018). Annual Urban Expansion Extraction and Spatio-Temporal Analysis Using Landsat Time Series Data: A Case Study of Tianjin, China. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, Vol. 11, No. 8: 2644 - 2656.
- **Chai, B.,** Li, P. (2016). Urban expansion extraction and analysis using Landsat time series data--a case study of Tianjin. *2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*.
- **Chai, B.,** Li, P., Zhang, R., Zhao, P. (2016). Urban Expansion Extraction Using Landsat Series Data and DMSP/OLS Nighttime Light Data: A Case Study of Tianjin Area. *Acta Scientiarum Naturalium Universitatis Pekinensis*, Vol. 52, No. 3: 475-485 (In Chinese).

PROJECT EXPERIENCE

- 2017- Urban growth, land-use change, and growing vulnerability in the Greater Himalaya mountain range across India, Nepal, and Bhutan
Project supported by NASA
- Remote sensing analysis to measure urban land change in the Himalaya region
- 2015-2016 Change detection technique for road areas using multi-source high resolution data
Project supported by Ministry of Transport of China
- Change detection and validation in road areas
- 2014-2017 Change detection methods using spatio-temporal multi-point class transition probabilities
Project supported by National Science Foundation of China

- Change detection and validation

PRESENTATIONS

Chai, B. *Spatio-temporal analysis of annual urban expansion using Landsat time series data: a case study of Tianjin, China.* 2018 American Association of Geographers (AAG) Annual Meeting, New Orleans, LA, April, 2018.

Chai, B. *Urban expansion extraction and analysis using Landsat time series data--a case study of Tianjin.* 2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Beijing, China. July, 2016.

AWARDS AND HONORS

2018	President Scholarship	Peking University
2017	CASC Scholarship	China Aerospace Science and Technology Corporation
2017	Special Scholarship	Peking University
2017	CSC Scholarship	China Scholarship Council
2015	Innovation Award	Peking University
2015	Special Scholarship	Peking University
2014	The Second Class Scholarship	China
2014	'Longruan Technologies' Scholarship	Peking University
2013	Learning Excellence Award	Peking University
2012	Merit Student	Peking University

KNOWLEDGE AND SKILLS

- Good understanding of remote sensing and GIS theory; having rich experiences in processing and analyzing spatial data including remote sensing images, basic geographic data, etc.
- Skilled at using ENVI, ArcGIS and Definiens eCognition.
- Experience in MATLAB, Python and R programming.