

## Jie Dai

Department of Geography  
San Diego State University/ University of California, Santa Barbara  
San Diego, CA 92182/ Santa Barbara, CA 93106

Email: [jdai@sdsu.edu](mailto:jdai@sdsu.edu)

November 2017

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### EDUCATION

Ph. D. Candidate, Joint Program in Geography, San Diego State University/UC, Santa Barbara, 2013-present  
Committee: Drs. Li An (Co-Chair), Dar Roberts (Co-Chair), Douglas Stow, and Phaedon Kyriakidis.  
M. S., Natural Resources and Environment, University of Michigan, Ann Arbor, 2013  
B. E., Spatial Informatics and Digitized Technology, Wuhan University, China, 2011

### PUBLICATIONS

#### Peer-reviewed Journal Articles

An, L., C. Battle, J. Dai, R. Lewison, N. Carter, J. Karki, and A. Zvoleff (in revision). Sex-specific habitat suitability models of *Panthera tigris* in Chitwan National Park, Nepal.  
Dai, J., S. Yang, R. Bilsborrow, L. Shi, W. Zhang, M. Wang, and L. An (in revision). Neighborhoods effects on out-migration of individual households in Fanjingshan National Nature Reserve, China.  
Yang, S., L. An, R. Bilsborrow, D. Lopez-Carr, J. Dai, W. Zhang, and L. Shi (in review). What influences decisions of local people to out-migrate under payments for ecosystem services? Evidence from a nature reserve in China. *Anthropocene*.  
Dai, J., D. Roberts, P. Dennison, and D. Stow (in review). Spectral-radiometric differentiation of non-photosynthetic vegetation and soil within Landsat and Sentinel 2 wavebands. *Remote Sensing Letters*.

#### Book Chapters

Dai, J., and L. An (2018). Time Geography. In Huang, B. (Ed.), *Comprehensive Geographic Information Systems*, Vol. 1, pp. 303-312. Oxford: Elsevier. <http://dx.doi.org/10.1016/B978-0-12-409548-9.09625-1>  
An, L., and J. Dai (2017). Space-time Analysis. In Lin, H., X. Shi, X. Ye, and Y. Guan (Ed.), *Frontiers in Geographic Information Science* (in Chinese). Beijing: Advanced Education Press.

#### Conference Paper

Zhao, Q., E. Wentz, S. Fotheringham, S. Yabiku, S. Hall, J. Glick, J. Dai, M. Clark, H. Heavenrich (2016). Semi-parametric geographically weighted regression (S-GWR): A case study on invasive plant species distribution in subtropical Nepal. *The 9<sup>th</sup> International Conference on Geographic Information Science*, 396-399.

### GRANT

Co-PI, NASA Earth and Space Science Fellowship (NESSF) “Mapping and Modeling the Invasion of *Mikania micrantha* in Chitwan Community Forests, Nepal: A Coupled Human and Natural Systems Approach” (PI & Advisor: Li An). \$42,093, 2017-2018.

## **AWARDS**

- 2018 Inamori Fellowship, San Diego State University, \$5,000
- 2017 NASA Earth and Space Science Fellowship
- 2017 Geography Department Citizenship Award, San Diego State University, \$500

## **TEACHING EXPERIENCES**

San Diego State University, Principal Instructor

GEOG 370 Conservation Science and Policy (2017)

San Diego State University, Guest Lecturer

GEOG 106 World Regional Geography (2017)

GEOG 688L Advanced Remote Sensing (2017)

San Diego State University, Teaching Associate

GEOG 101 Earth’s Physical Environment (2016)

GEOG 104 Geographical Information Science (2014)

GEOG 385 Spatial Data Analysis (2017)

GEOG 409 Global Climate Change (2016)

GEOG 506 Landscape Ecology (2016)

GEOG 585 Quantitative Methods in Geographic Research (2016)

University of Michigan, Graduate Student Instructor

NRE 531 Principles of GIS (2013)

## **ACADEMIC SERVICES**

Doctoral Student Representative: Department of Geography, San Diego State University (2016 – 2017)

AAG Annual Meeting Paper Session Chair: 5566 Land Use and Land Cover Change (2014)

Track Leader: Environmental Informatics, School of Natural Resources and Environment, University of Michigan, Ann Arbor (2012 – 2013)

## **PRESENTATIONS**

2015 The Potential for Detecting the Invasion of *Mikania micrantha* through Remote Sensing Imagery in Chitwan Community Forests, Nepal (Geography Colloquium, UCSB)

2014 Linking Forest Health with Vulnerability to an Invasive Plant Species: A Case Study in Chitwan, Nepal (AAG Annual Meeting, Tampa, FL)

2013 Landsat Spectral Responses to Grassland Biophysical Conditions Across a Gradient in Inner Mongolia, China (SNRE Capstone Conference, Ann Arbor, MI)

**PROFESSIONAL AFFILIATIONS**

American Society for Photogrammetry and Remote Sensing (2014 – present)