

Yi Qi

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 University of Nebraska-Lincoln
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RESEARCH INTERESTS

- Remote sensing of environment, imaging spectroscopy, terrestrial ecology
- GIS, spatial data science, data visualization
- Scientific computation and cloud computing for geospatial analytics

EDUCATION

<i>Ph.D. in Geography</i>	University of Utah	2014
<i>Master of Science in Geography</i>	Northern Illinois University	2008
<i>Bachelor of Engineering in GIS</i>	China University of Geosciences, Wuhan	2004

CURRENT POSITION

<i>Assistant Professor</i>	University of Nebraska-Lincoln	7/2018-
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PREVIOUS POSITION

<i>Senior Spatial Analyst</i>	Brown University	2014-2018
<i>Research Assistant</i>	University of Utah	2010-2014
<i>GIS Analyst</i>	Stanford University	2009-2010
<i>Research Assistant</i>	Northern Illinois University	2006-2008

SELECTED PUBLICATIONS

- Yi Q.**, Ustin S.L. Glenn N. (2018) Imaging spectroscopic analysis of biochemical traits of shrub species in Great Basin dryland ecosystem. *Remote Sensing*. (Under Review)
- Yi Q.**, Dennison P. E., Jolly M.W., Kropp R.C., Riaño D. (2016) Seasonal relationships between foliar moisture content, heat content and biochemistry of Lodgepole Pine and Big Sagebrush Foliage. *International Journal of Wildland Fire* 25 (5): 574-578.
- Yi Q.**, Dennison P. E., Jolly M.W., Kropp R.C., Brewer S.C. (2014) Spectroscopic Analysis of Seasonal Changes in Live Fuel Moisture Content and Leaf Dry Mass. *Remote Sensing of Environment* 150: 198-206.
- Dennison P.E., A.K. Thorpe, E.R. Pardyjak, D.A. Roberts, **Y. Qi**, R.O. Green, E.S. Bradley, and C.C. Funk. (2013). High spatial resolution mapping of elevated atmospheric carbon dioxide using airborne imaging spectroscopy: Radiative transfer modeling and power plant plume detection. *Remote Sensing of Environment* 139: 116-129.

- Yebara, M.; P. E. Dennison; E. Chuvieco; D. Riaño; P. Zylstra; E. R. Hunt; F. M. Danson; **Y. Qi** and S. Jurdao. (2013). A global review of remote sensing of live fuel moisture content for fire danger assessment: Moving towards operational products. *Remote Sensing of Environment* 136: 455-468.
- Yi Q.**, Dennison P. E., Spencer J., Riaño, D. (2012). Monitoring live fuel moisture using soil moisture and remote sensing proxies. *Fire Ecology* 8 (3): 71-87.
- Wei L. and **Y Qi.** (2009). An enhanced two-step floating catchment area (E2SFCA) method for measuring spatial accessibility to primary care physicians. *Health & Place* 15: 1100-1107.

GRANT

- T.J.S. Whitfeld (PI), **Y. Qi** (Co-PI). Shedding new light on the tropical forest canopy. Brown Seed Grant (Denied). Submitted in Oct 2016.
- T.J.S. Whitfeld (PI), James Kellner (Co-PI), **Y. Qi** (Co-PI). Tropical forest dynamics in unstable terrain. Brown Salomon Award (Succeed). Submitted in Nov 2017.

CONFERENCE PRESENTATIONS & POSTERS

- Y. Qi**, Ustin S.L. Glenn N. Imaging spectroscopic analysis of biochemical traits of shrub species in Great Basin dryland ecosystem. ESA Annual Conference. Aug 12, 2017, Portland, OR.
- Y. Qi**, P.E. Dennison, W.M. Jolly, R.C. Kropp and Simon Brewer. Spectroscopic analysis of seasonal changes in live fuel moisture and leaf dry matter. *AGU Fall Meeting*. Dec 7, 2013. Oct 16, 2013, Pasadena, CA.
- Y. Qi**, P.E. Dennison, W.M. Jolly, R.C. Kropp and Simon Brewer. Spectroscopic analysis of seasonal changes in live fuel moisture and dry matter. *2013 HypsIRI Science Workshop*. Oct 16, 2013, Pasadena, CA.
- Y. Qi**, P.E. Dennison, W.M. Jolly, R.C. Kropp. Seasonal dynamics of live fuel moisture and spectroscopic data in lodgepole pine and sagebrush. *AGU Fall Meeting*. Dec 7, 2012, San Francisco, CA.
- Dennison, P.E. and **Y. Qi**. Why don't we have remote monitoring of live fuel moisture yet? *5th International Fire Ecology and Management Congress*. Dec 5, 2012, Portland OR.
- Dennison, P.E., A.K. Thorpe, **Y. Qi**, D.A. Roberts, R.O. Green, E.S. Bradley and C.C. Funk. AVIRIS and HypsIRI sensitivity to atmospheric carbon dioxide plumes. *2012 HypsIRI Science Workshop*. Oct 2012, Washington DC.
- Dennison, P.E., **Y. Qi**, A.K. Thorpe, E.R. Pardyjak, D.A. Roberts, E.S. Bradley and C.C. Funk. High spatial resolution mapping of power plant carbon dioxide plumes using imaging spectrometer data. *AGU Fall Meeting*. Dec 9, 2011, San Francisco, CA.
- Y. Qi**, P.E. Dennison, J. Spencer. Remote monitoring of sagebrush and gambel oak live fuel moisture using soil moisture and remote sensing proxies. *AFE Interior Fire Ecology Conference*. Nov 16, 2011, Snowbird, UT.
- Dennison, P.E., **Y. Qi**, A.K. Thorpe, D.A. Roberts, E.S. Bradley, and C.C. Funk. Detection and measurement of power plant CO₂ plumes using imaging spectrometer data. *2011 HypsIRI Science Workshop*, Aug 24, 2011, Washington DC.

Anne Guerry, Mary Ruckelshaus, Katie K Arkema, Jodie Toft, Gregory Guannel, Choong-Ki Kim, Michael Papenfus, **Yi Qi**. SYMP 23-3: The Marine Initiative of the Natural Capital Project: Putting marine ecosystem services on the map. *The 95th ESA Annual Meeting*. Aug 6, 2010, Pittsburg, Pennsylvania.

Y. Qi. The impact of toxically releasing inventory sites on residential property values in Aurora Illinois, 1999. *AAG Annual Meeting*. April 16, 2008, Boston, MA.

Luo W., T. F. Stepinski, **Y. Qi**. Drainage density and controlling factors in Cascade Range, Oregon, USA. *Geoinformatics*. May 25, 2007, Nanjing, China.

CONFERENCE PROCEEDINGS

J Toft, A Guerry, M Ruckelshaus, A Day, K Arkema, G Guannel, C Kim, M Papenfus, **Y Qi**, H Tallis. Using Ecosystem Service Models to Inform Marine Spatial Planning on the West Coast of Vancouver Island, Canada. Proceedings from the 2010 AGU Ocean Sciences Meeting. American Geophysical Union, 2000 Florida Ave., N. W. Washington DC 20009 USA, 2010.

Stepinski, T. F., W. Luo, **Y. Qi**, Precision Mapping of Valley Networks in Margaritifer Sinus, Mars. *38th Lunar and Planetary Science Conference*, Texas. 2007. LPI Contribution No. 1338, p.1205.

GOVERNMENT REPORTS

Arkema, K., A. Guerry, M. Ruckelshaus, J. Toft, C. Kim, M. Papenfus, **Y. Qi**, H. Tallis, and Department of Fisheries and Oceans, St. Andrews, NB (Canada). Science Branch. *Marine InVEST: a tool for mapping and valuing services provided by coasts and oceans*. Edited by L. L. Cooper. No. 2904. DFO, St. Andrews, NB (Canada), 2010.

INVITED SEMINORS

Dar Roberts, Jessica Mitechell, **Yi Qi**, Nathan Leisso, and Nancy Glenn. NEON Workshop: Mapping Species, Composition (foliar chemistry) and Soil Properties with Spectroscopy. August 29 - 31, 2016, Boise State University, Boise, ID, USA

Yi Qi. Remote Sensing of Live Fuel Moisture Content. Guangzhou Institute of Geochemistry. China Academy of Sciences. Dec 25, 2012, Guangzhou, China.

AWARDS & HONORS

2014 ESRI User Conference Student Assistant Program	2014
TREE Grant, Association for Fire Ecology	2014
Global Change and Sustainability Center Travel Grant, University of Utah	2012/2013
China University of Geosciences Scholarship	2000-2004

PROFESSIONAL AFFILIATIONS

Member	American Association of Geographers	2006-Present
Member	American Geophysical Union	2011-Present

Yi Qi

7/2018

Member

Ecological Society of America

2017-Present