

Yaqiong Lu

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Research Interests

- Regional Climate Models
- Cropland and climate change feedback
- Boundary meteorology observation
- Land-cover/land-use change
- Statistical and process based crop modeling

Education

- **Ph.D's Degree in Environmental systems (August 2013)**
University of California, Merced, Aug. 2008~Aug. 2013
- **Master's Degree in Physical Geography (June 2008)**
Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Sept. 2005~June 2008
- **Bachelor's Degree in Atmosphere Science (July 2005)**
Chengdu University of Information Technology (CUIT), Sept. 2001-Jul.2005

Skills

- Proficient computer skills in Fortran 77, Fortran 90, R, NCL, GrADS, SPSS, Surfer, GRAPH, Delta Graph, Origin, Corel Draw, Visual Basic
- Excellent handle MM5 (The Fifth-Generation NCAR / Penn State Meso-scale Model), WRF (The Weather Research & Forecasting Model), and CCSM (The Community Climate System Model)
- Familiar with several meteorological field experiment instruments, such as GPS sounding equipment, automatic meteorology station, Eddy flux tower, lower atmosphere boundary sounding equipment

Awards

- UC Merced GRC summer fellowship, 2010,2011,2012,2013

Academic Activities

- Poster, 13th Berkeley Atmospheric Sciences Symposium, Berkeley, CA, 6-7 February, 2014
- Poster, AGU Fall Meeting, San Francisco, CA, 9-13 December, 2013
- Poster, AGU Fall Meeting, San Francisco, CA, 3-7 December, 2012
- Presentation, NCEAS workshop, Santa Barbara, CA, 26-28 February, 2010
- Poster, AGU Fall Meeting, San Francisco, CA, 14-18 December, 2009
- Poster, 10th Annual WRF Users' Workshop, Boulder, CO, 23-26 June, 2009
- Participant, NCAR Advanced Study Program in Atmosphere, Summer Colloquium, 31 May – 12 June, Boulder, CO, 2009

- Organizer, the First Field Sounding Observation at Lake Nam Co, Tibetan Plateau, 1-25 August, 2007
 - Poster, European Geosciences Union General Assembly 2007, Vienna, Austria, 15-20 April 2007
 - Poster, the First International Workshop on Energy and Water Cycle over the Tibetan Plateau, 3-10, september, 2006, Lhasa
- Professional Services**
- Secretary, CAS-ITC Workshop on Climate, Ecosystems and Water Cycle, 10-17 september, 2007, Lhasa, Tibet, China.
 - Secretary, the First International Workshop on Energy and Water Cycle over the Tibetan Plateau, 3-10, september, 2006, Lhasa
 - Organizer, the Volunteer Publicity Environment Protection Activity, 4-6 November, 2003
 - Tian Mountain Field Trip on Cold Region Environmental Research, 2002
- Positions**
- Postdoc Scholar, Sierra Nevada Research Institute, University of California, Merced, 2013-present
 - Research Assistant & Teaching Assistant, School of Natural Sciences, UC Merced, 2010-2013
 - Teaching Assistant, School of Natural Sciences, UC Merced, 2009
 - Research Assistant, School of Natural Sciences, UC Merced, 2008
- Reviews**
- Journal of Climate (2)
 - Advances in Atmospheric Sciences (1)
 - Journal of Meteorological Society of Japan (1)
 - Atmospheric Science Letters (1)
 - Journal of Geophysical Research – Atmospheres (1)
- Publications**
- Yaqiong Lu, Xianyu Yang, Lara M. Kueppers, Mark A. Synder, Lisa Sloan, Wyatt Thompson, J. Elliott Campbell. Climate change increases volatility of biofuel supply in the U.S. *Agricultural and Forest Meteorology*. 2014. Submitted
 - Yaqiong Lu, Jiming Jin, Lara M. Kueppers. Crop growth and irrigation interact to influence surface fluxes in a regional climate-cropland model (WRF3.3-CLM4crop). *Climate Dynamics*. 2014. Submitted.
 - Yaqiong Lu and Lara M. Kueppers. Increased heat waves with loss of irrigation in the United States. *Geophysical Research Letters*. 2014. Submitted.
 - Yaqiong Lu and Lara M. Kueppers (2012). Surface energy partitioning over our dominant vegetation types in a coupled regional climate model (WRF3.0-CLM3.5) across the United States. *Journal of Geophysical Research, atmosphere*, vol. 117, D06111
 - Lei Zhong, Yaoming Ma, Zhongbo Su, Lixin Lu, Weiqiang Ma, and Yaqiong Lu (2009). Land-Atmosphere Energy Transfer and Surface

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Boundary Layer Characteristics in the Rongbu Valley on the
Northern Slope of Mt. Everest. *Arctic Antarctic and alpine research*,
41(3), 396-405.