CURRIUCULUM VITAE

Lei Liu

Current position

Post doctoral in Global Ecology Unit (Superadvisor: Josep Peñuelas) (2015.01-)
Center for Ecological Research and Forestry Applications (CREAF) - National Research Council (CSIC), Universitat Autonoma de Barcelona (UAB).
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Major contents of study

My work during the postgraduate study have been involved in soil microbial mediation of ecosystem response to global changes in land use, nitrogen deposition, carbon and nutrient cycling, with a particular focus on tropical forests. I have an especial enthusiasm for soil microbial community structures from forest or other types of ecosystem and their response to disturbances, such as climate changes and land-use conversions. In addition, I am also interested in carbon sequestration and nutrients cycling in different ecosystems and the limitations of productivity not only in tropical but also in temperate areas. Besides, my postdoctoral project is about soil functional microorganisms such as mycorrhizal fungi and ammonia oxidizers which involved in P and N cycle response to global climate change.

Education

July 2012 – December 2014
Post doctoral in ecology, major in microbial Ecology (Superadvisor: B. Chen)
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

September 2008 – January 2012
Ph.D in ecology, major in Ecosystem Ecology (Superadvisor: J. Mo)
Graduate University of Chinese Academy of Science
South China Botanical Garden, Chinese Academy of Sciences

December 2009 --November 2010
Joint Ph.D. program from China Scholarship Council (Superadvisor: P. Gundersen)
Landscape and Forest Ecology, University of Copenhagen, Denmark

September 2006 – August 2008
Master in ecology, major in Ecosystem Ecology (Superadvisor: J. Mo)
Graduate University of Chinese Academy of Science
South China Botanical Garden, Chinese Academy of Sciences.

September 2002 --June 2006
B.S in biology
Henan Normal University, P. R. China.

Honors

Excellent student, 2004, Henan Normal University
Fellowship from Chinese Scholarship Council, 2009, Chinese Scholarship Council.

Participate in research project

- Effects of phosphorus limitation on life, earth system and society, synergy grant 610028.
- Canopy nitrogen deposition and precipitation increment affects soil functional microorganisms in Jigongshan forests (No. 31300446) supported by National Natural Science Foundation of China. (0.22 mill. RMB) Role: **Project leader**.
- The national assessment of soil ecological function in China (STSN-21-04) supported by Chinese Academy of Sciences.
- Responses and adaptations of ecosystem key processes of coupling C-N-H_2O cycle to global change (2010CB833502) supported by National Key Basic Research 973 Program, China.
- Processes of soil C accumulation and key drive mechanisms in subtropical forest southern China (No. 40730102) supported by National Natural Science Foundation of China.
- Danish projects related to carbon-nitrogen interactions in forest soils including investigations on soil microbial community with new DNA based techniques.

Participate in academic conferences

23rd New Phytologist Symposium: Carbon cycling in tropical ecosystems 2009, Guangzhou

Publication

- **Lei Liu**, Per Gundersen, Wei Zhang, Tao Zhang, Hao Chen, Jiangming Mo. Effects of nitrogen and phosphorus additions on soil microbial biomass and community structure in two reforested tropical forests. *Scientific Reports*, 2015, DOI:10.1038/srep14378.
- **Lei Liu**, Tao Zhang, Frank S. Gilliam, Per Gundersen, Wei Zhang, Hao Chen, Jiangming Mo. Interactive effects of nitrogen and phosphorus on Soil communities in a tropical forest. PLoS one, 2013, 8(4).
- **Lei Liu,** Per Gundersen, Tao Zhang, Jiangming Mo. Effects of phosphorus addition on soil microbial biomass and community composition in three forest types in tropical China. *Soil biology and Biochemistry*, 2012, 44:31-38.
- H. Chen, W. Zhang, F. Gilliam, **L. Liu**, J. Huang, W. Wang, J. Mo. Changes in soil carbon sequestration in Pinus massoniana forests along an urban-to-rural gradient of southern China. *Biogeosciences*, 2013, 10: 6609-6616.
- Wei Zhang, Xiaomin Zhu, **Lei Liu**, Shenglei Fu, Hao Chen, Juan Huangm Xiankai Lu, Zhanfeng Liu, Jiangming Mo. Large difference of inhibitive effect of nitrogen deposition on soil methane oxidation between plantations with N-fixing. Journal of Geophysical Research-Biogeosciences, 2012, 117,G00N16.