

# **Curriculum Vitae**

## **Meng Lu**

### **Address**

P.O.Box 28, 647 Contees Wharf Road, Smithsonian Environmental Research Center.  
Edgewater, Maryland 21037

**Phone Number:** 1-443-482-2475

**Email:** lum@si.edu

### **Education**

**2005-2010** Ph.D. Ecology, Fudan University, Shanghai, China

(2007.9-2009.1) Joint Ph.D. program, University of Oklahoma, Norman, OK, USA

**2001-2004** M.S. Microbiology, Central China Normal University, Wuhan, Hubei, China

**1997-2001** B.S. Biochemistry, Central China Normal University, Wuhan, Hubei, China

### **Academic appointment**

**2013-** Postdoctoral fellow, Smithsonian Environmental Research Center

**2010-2012** Postdoctoral fellow, Fudan University, Shanghai, China

### **Awards & Scholarships**

- Joint Ph.D. program scholarship, Minister of Education, China 2007-2009
- Outstanding graduates of Central China Normal University 2004
- First class award of scientific research of undergraduate students, Hubei province 2001

### **Research grants**

Funded projects (Totaling \$57,300, Chinese Yuan ¥350,000)

1. China National Natural Science Foundation for Young Scholars (2012-2014)

(PI, Coupling of ecosystem carbon, nitrogen and phosphorus cycles in response to nitrogen addition: a meta-analysis and case study, Chinese Yuan ¥220,000)

2. China Postdoctoral Science Foundation special fund (2011-2012)

(PI, Comparative study of ecosystem nitrogen leakage in response to addition of different N forms, Chinese Yuan ¥100,000)

3. China Postdoctoral Science Foundation (2011-2012)

(PI, Ecosystem phosphorous dynamic in response to nitrogen addition: a meta-analysis and case study, Chinese Yuan ¥30,000)

### **Skills and qualifications**

Graphics and Word Processing: Microsoft Office, EndNote, MAPinfo, SigmaPlot, OriginLab  
Statistics: SPSS, MetaWin, SAS

Good at large scale data synthetic analysis (e.g., analysis of ecosystem carbon, nitrogen and phosphorus dynamics in respond to climate change), experienced in analysis of soil chemistry and biology

### **Journal reviewer**

*Ecology letters, Global Change Biology, Ecosphere, Scientific Reports, PLOS One*

## **Publications**

1. Chen J., Luo Y.Q., Xia J.Y., Jiang L.F., Zhou X.H., **Lu M.**, Liang J.Y., Shi Z., Shelton S., & Cao J.J. 2015. Stronger warming effects on microbial abundances in colder regions. *Scientific Reports*, 5, 18032; doi: 10.1038/srep18032.
2. Liu C., **Lu M.**, Cui J., Li B., Chen J.k. & Fang C. M. 2014. Effects of straw carbon input on carbon dynamics in agricultural soils: a meta-analysis. *Global Change Biology*, 20: 1363–1698.
3. Huang X. Y., **Lu M.** & Chen J.K. 2014. Applications of systematic approaches in freshwater conservation planning. *Chinese Science Bulletin*. 59: 4256-4270.
4. Zhou L.Y., Zhou X.H., Zhang B.C., **Lu M.**, Luo Y.Q., Liu L.L., & Li B. 2014. Different responses of soil respiration and its components to nitrogen addition among biomes: a meta-analysis. *Global Change Biology*, 20: 2332–2343.
5. Li B., Wei S. J., Li H., Yang Q. & **Lu M.** 2014. Invasive species of China and their responses to climate change. *Invasive Species and Global Climate Change (CABI Invasives Series)*, CABI Publishing: 198–218.
6. **Lu M.**, Zhou X.H., Yang Q., Li H., Luo Y.Q., Fang C.M., Chen J.K., Yang X. & Li B. 2013. Responses of ecosystem carbon cycle to experimental warming: a meta-analysis. *Ecology*, 94:726–738.
7. Nie M., **Lu M.**, Bell J., Raut S., & Pendall E. 2013. Altered root traits due to elevated CO<sub>2</sub>: a meta-analysis. *Global Ecology and Biogeography*, 22:1095–1105
8. Piao SL, Sitch S, Ciais P, Friedlingstein P, Peylin P, Wang XH, Ahlström A, Anav A, Canadell J G, Huntingford C, Jung M, Levis S, Levy P E, Lomas M R, **Lu M**, Luo Y Q, Myneni R B, Poulter B, Wang T, Viovy N, Zaehle S, & Zeng N. 2013. Evaluation of terrestrial carbon cycle models for their response to climate variability and to CO<sub>2</sub> trends. *Global Change Biology*, 19: 2117–2132.
9. **Lu M.**, Yang Y.H., Luo Y.Q., Fang C.M., Zhou X.H., Chen J.K., Yang X., & Li B. 2011a. Responses of ecosystem nitrogen cycle to nitrogen addition: a meta-analysis. *New Phytologist*, 189, 1040-1050.
10. **Lu M.**, Zhou X.H., Luo Y.Q., Yang Y.H., Fang C.M., Chen J.K., & Li B. 2011b. Minor stimulation of soil carbon storage by nitrogen addition: A meta-analysis. *Agriculture, Ecosystems and Environment*, 140, 234–244
11. Nie M., **Lu M.**, Yang Q., Zhang X.D., Xiao M., Jiang L.F., Yang J., Fang C.M., Chen J.K., & Li B. 2011. Plants' use of different nitrogen forms in response to crude oil contamination. *Environmental Pollution*, 159, 157-163
12. Yang Y.H., Luo Y.Q., **Lu M.**, Schädel C., & Han W. 2011. Terrestrial C:N stoichiometry in response to elevated CO<sub>2</sub> and N addition: a synthesis of two meta-analyses. *Plant and soil*, 343: 393-400
13. Wang C.H., **Lu M.**, Yang B., Yang Q., Zhang X.D., Hara T. & Li B. 2010. Effects of environmental gradients on the performances of four dominant plants in a Chinese saltmarsh: implications for plant zonation. *Ecological Research*, 25: 347–358.
14. Zhang Y.M., Wang Q., **Lu M.**, Jia X., Geng Y.P. & Li B. 2008. Variation and phenotypic plasticity in life history traits of *Spartina alterniflora* along the east coast of China. *Shengwu Duoyangxing*, 16: 462-469 (in Chinese with English abstract)

## **Conference Abstract/Presentation**

1. **Lu M.**, Luo Y.Q. & Li B. Nitrogen fertilization differentiates carbon and nitrogen sequestrations in terrestrial ecosystem: a meta-analysis. 93<sup>rd</sup> Ecological Society of America Annual Meeting, Milwaukee, WI, USA, August 3-8, 2008.
2. **Lu M.**, Zhou X.H., Luo Y.Q. & Li B. Responses of ecosystem carbon cycle to experimental warming: a meta-analysis. 98<sup>th</sup> Ecological Society of America Annual Meeting, Minneapolis, MN, USA, August 5-10, 2013.
3. Liu C., **Lu M.**, Cui J., Li B., Chen J. k. & Fang C. M. Effects of straw return on carbon dynamics in agricultural soils: a meta-analysis. 99<sup>th</sup> Ecological Society of America Annual Meeting, Sacramento, CA, USA, August 10-15, 2014.
4. **Lu M.**, Gallegos C., Parker G. & Megonigal J. P. Integrating the long-term net primary productivity data from GCREW marsh with data from SERC forests and the Rhode River phytoplankton. 1<sup>st</sup> Global Change Research Symposium, SERC, Edgewater, MD, USA, February 6, 2014.
5. Luus K., Walker A., de Kauwe M, Hungate B., Megonigal J. P., **Lu M.**, Fenstermaker L., Nowak R., Morgan J., Medlyn B., Norby R. & Zaehle S. Responses of desert, semi-arid grassland and scrub-oak ecosystems to elevated CO<sub>2</sub>. EGU General Assembly 2014, Vienna, Austria, id.10008. April 27- May 2, 2014.
6. **Lu M.** & Megonigal J. P. Responses of marsh plant carbon and nitrogen contents to long term passive warming. 2<sup>nd</sup> Global Change Research Symposium, Bryn Mawr College, Bryn Mawr, PA, USA, February 12, 2015.
7. **Lu M.**, Drake B. & Megonigal J. P. Responses of marsh plant biomass allocation to elevated CO<sub>2</sub>: a case study at Chesapeake Bay. 100<sup>th</sup> Ecological Society of America Annual Meeting, Baltimore, MD, USA, August 9-14, 2015.
8. Shao J. J, Zhou X. H, Yan W, Xia J. Y & **Lu M.** Can biomass responses to warming at plant to ecosystem levels be predicted by leaf-level responses? 2015 American Geophysical Union (AGU) Fall Meeting, San Francisco, USA, December 14-18, 2015.