

CURRICULUM VITAE

Personal information

Name: Yu Tan

M/F: Female

Date of Birth: 6 June, 1992

Nationality: China

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Education

09/2010 – 06/2014

Bs: Forest resource protection and recreation

Major: Eco-tourism

College of Forestry, Sichuan Agricultural University, China

09/2014 – 06/2017

Ms: Ecology

Major: Forest Ecology

College of forest, key laboratory of Ecological Forestry Engineering, Institute of Ecology & Forestry, Sichuan Agricultural University, China

09/2017 – Now

PhD: Silviculture

College of forest, key laboratory of Ecological Forestry Engineering, Institute of Ecology & Forestry, Sichuan Agricultural University, China

Research Techniques and Skills

Extraction and analysis of soil humus: Soil humus, humic acid and fulvic acid from litter were extracted by alkali extraction, using a spectrophotometer to measure the optical properties of these

substances. Litter organic carbon fractions and mass loss were also analyzed.

Isolation and identification of soil animals: Tullgren funnel method is used for separating soil animals and using a microscopy identification soil animal group.

Research experience

During the master's degree, I studied the dynamic changes of soil fauna affect the litter humification at the different ecosystems. Moreover, I investigated the contributions of soil animals to the humification in different litters using a litterbag method to removing soil fauna.

During the doctoral periods, I am investigating the relationship between soil animals and humus accumulation along the altitudinal gradient. Firstly, my research included exploring the functional groups of soil animals at different altitudes, and soil community and diversity at different soil layers. Moreover, the contribution of soil animals to litter humification on the elevation gradient and the accumulation of humus in different soil layers on the elevation gradient were studied. Furthermore, the effects of refractory substances, easily decomposable substances and elemental components on the accumulation of litter humus sustained by soil animals were explored.

Peer-reviewed papers

Yu Tan, Wanqin Yang, Shu Liao, Yan Peng, Jun Li, Fuzhong Wu*. Effects of soil fauna on winter huminication along altitudinal gradient in cold ecosystems in western Sichuan. *Acta Ecologica Sinca*, 2017,37(5):1595-1602. (in Chinese with English abstract).

Yu Tan, Wanqin Yang, Xiangyin Ni, Bo Tan, Kai Yue, Rui Cao, Shu Liao, Fuzhong Wu*, Soil fauna affects the optical properties in alkaline solutions extracted (humic acid-like) from forest litters during different phenological periods. (Being reviewed by *Canadian journal of soil science*)

Kaijun Yang, Wanqin Yang, **Yu Tan**, Ruoyang He, Liyan Zhuang, Zhijie Li, Bo Tan, Zhenfeng Xu*. Short-term responses of winter soil respiration to snow removal in a *Picea asperata* forest of western Sichuan. *Chinese Journal of Plant Ecology*, 2017, 41(9). (in Chinese with English abstract).

Kai Yue, Wanqin Yang, Changhui Peng, Yan Peng, Chuan Zhang, Chunping Huang, **Yu Tan**, Fuzhong Wu *. Foliar litter decomposition in an alpine forest meta-ecosystem on the eastern Tibetan Plateau. *Science of the Total Environment*, 2016, 566-567: 279-287.

Shu Liao, Wanqin Yang, Yan Peng, Jun Li, **Yu Tan**, Bo Tan, Fuzhong Wu*. Effects of soil fauna on

the concentrations of dissolved organic carbon and total dissolved nitrogen in four types of foliar litters in different phenophases in Sichuan Basin. *Chinese Journal of Ecology*, 2016. (in Chinese with English abstract).

Shu Liao, Wanqin Yang, **Yu Tan**, Yan Peng, Jun Li, Bo Tan, Fuzhong Wu*. Soil Fauna Affects Dissolved Carbon and Nitrogen in Foliar Litter in Alpine Forest and Alpine Meadow. *Plos One*, 2015, 10(9): e0139099-.

Honor & Awards

Excellent individual in social practice, Sichuan Agricultural University, 2012.

Third-class of excellent graduate scholarship, Sichuan Agricultural University, 2015

Second-class of excellent graduate scholarship, Sichuan Agricultural University, 2016

Second-class of excellent graduate scholarship, Sichuan Agricultural University, 2017

Third-class of excellent graduate scholarship, Sichuan Agricultural University, 2018

Supervisor

Prof. Fuzhong Wu

Vice president of Institute of Ecology and Forestry, Sichuan Agricultural University.

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