# Xiangmin Sun

*Curriculum Vitae*

*495 Horticulture Rd, Room 301*
*College Station, TX 77843*
*(979) 204 5235*
*sunxm03@tamu.edu*
*wilcoxlab.tamu.edu/students-2*
*github: sunxm19*

## Education

2013–2019 **Doctor of Philosophy**, *Texas A&M University*, College Station.
Ecosystem Science and Management

2008–2011 **Master of Science**, *Chinese Academy of Sciences*, Beijing & Chengdu, China.
Environmental Sciences

2003–2007 **Bachelor of Engineering**, *Lanzhou University*, China.
Hydrology and Water Resources Engineering

## Doctoral thesis

Title *Evapotranspiration and its Partitioning in Tallgrass Prairie under Woody Plant Encroachment*

Supervisors Professor Bradford Wilcox & Professor Chris Zou

Description We used field-deployable laser spectrometer to measure the isotopic composition of atmospheric water vapor, and sampled waters in the surface soil and plant. Coupled with eddy covariance measurement, the bulk evapotranspiration flux was partitioned into soil evaporation and plant transpiration among different ecosystems in tallgrass prairie experiencing woody plant encroachment.

## Publications

Xiangmin Sun, Chris B. Zou, Bradford Wilcox, and Elaine Stebler. Effect of vegetation on the energy balance and evapotranspiration in tallgrass prairie: A paired study using the eddy-covariance method. *Boundary-Layer Meteorology*, 170(1):127–160, b. doi:10.1007/s10546-018-0388-9

Xiangmin Sun, Bradford P. Wilcox, and Chris B. Zou. Evapotranspiration partitioning in dryland ecosystems: A global meta-analysis of in situ studies. *Journal of Hydrology*, 576:123 – 136, a. doi:10.1016/j.jhydrol.2019.06.022

Xiangmin Sun, Bradford P. Wilcox, Chris B. Zou, Elaine Stebler, Jason West, and Briana Wyatt. Isotopic partitioning of evapotranspiration in a mesic grassland during two wetting-drying episodes (submitted). 2020

## Presentations

Xiangmin Sun, Bradford Paul Wilcox, Chris Zou, and Elaine Stebler. Isotopic partitioning of evapotranspiration over a mesic grassland during two wetting-drying episodes. In *AGU Fall Meeting 2019*. AGU, 2019

Xiangmin Sun, Bradford Paul Wilcox, Chris Zou, and Elaine Stebler. Evapotranspiration partitioning based on d-excess and its in situ application in tallgrass prairie. In *AGU Fall Meeting Abstracts*, 2018

Xiangmin Sun, Chris Zou, Bradford Paul Wilcox, and Elaine Stebler. Effect of vegetation on the energy balance and evapotranspiration in tallgrass prairie: a paired study with eddy covariance systems. In *AGU Fall Meeting Abstracts*, 2017

X Sun, BP Wilcox, C Zou, E Stebler, and JB West. Control study on evapotranspiration partitioning for grassland through on-situ isotopic measurement. In *AGU Fall Meeting Abstracts*, 2016

X Sun, BP Wilcox, C Zou, E Stebler, and JB West. Evapotranspiration partitioning with sub-daily isotopic measurement in a sub-humid grassland ecosystem. In *AGU Fall Meeting Abstracts*, 2015

## Awards & Grants

2016 Travel Fund for CUAHSI/NASA Remote Sensing Hydrology Workshop

2015 The Texas Water Resources Institute (TWRI) - Mills Scholarship Program

2015 Office of Graduate and Professional Studies at TAMU - Presentation Grant

2013 Sid Kyle Graduate Merit Assistantships

## Teaching assistant

**Fundamentals of Ecology Lab** *2015 Spring-2016 Fall*

**GIS for Resources Management** *2017 Spring-2019 Spring*

**Watershed Analysis and Planning** *2019 Fall*

## Service & Membership

- Reviewer for *Agricultural and Forest Meteorology*, *Hydrological Processes*, and *Scientific Reports*
- *American Geophysical Union (AGU)* member, 2015- present
- Committee member for TAMU Ecological Integration Symposium, 2017

## Workshop and Training

- Eddy Covariance Training Workshop, Lincoln, Nebraska, 2016
- Data Scientist with R, Datacamp
- Open Source for Open Science workshop, College Station, Texas, 2017