

# CHUNLIN SONG

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## EDUCATION

**Nov. 2017 - present** Yale School of Forestry & Environmental Studies  
**Visiting PhD student**, advisor: Prof. Peter A. Raymond

**Sept. 2015 - present** Institute of Mountain Hazards and Environment, Chinese Academy of Sciences & University of Chinese Academy of Sciences

**Ph.D. student**, Physical Geography, advisor: Prof. Genxu Wang  
Dissertation Title: Riverine Carbon and Water Transport Processes under Multiple Scales of the Yangtze River Source Region

**Sept. 2013 - Aug. 2015** Institute of Mountain Hazards and Environment, Chinese Academy of Sciences & University of Chinese Academy of Sciences

**Master student**, Physical Geography, advisor: Prof. Genxu Wang

**Sept. 2009 - June 2013** College of Water Resources and Hydropower, Sichuan University

**Bachelor of Engineering**, major in Hydrology and Water Resources Engineering.  
Graduation Thesis: Research on Ecological Water Requirement of Flower Lake Core Area in the Zoige Wetland

## PUBLICATIONS

### Peer-reviewed Papers

**Chunlin Song**, Genxu Wang, Guangsheng Liu, Tianxu Mao, Xiangyang Sun, Xiaopeng Chen. Stable isotope variations of precipitation and streamflow reveal the young water fraction of a permafrost watershed. *Hydrological Processes*, 2017: **31**(4), 935-947. DOI: 10.1002/hyp.11077.

**Chunlin Song**, Genxu Wang, Xiangyang Sun, Ruiying Chang, Tianxu Mao. Control factors and scale analysis of annual river water, sediments and carbon transport in China. *Scientific Reports* **6**, 25963; DOI: 10.1038/srep25963 (2016).

**Chunlin Song**, Xiangyang Sun, Genxu Wang. A study on precipitation stable isotopes characteristics and vapor sources of the subalpine Gongga Mountain, China. *Resources and Environment in the Yangtze Basin*, **24**(11), 1860-1869 (2015). (in Chinese with English Abstract)

**Chunlin Song**, Xiangyang Sun, Genxu Wang. A review on carbon and water interactions of forest ecosystem and its impact factors. *Chinese Journal of Applied Ecology*, **26**(9), 2891-2902 (2015). (in Chinese with English Abstract)

## Patents

**SONG Chunlin**, SUN Xiangyang, HU Zhaoyong, WANG Genxu. A vacuum porous core filter device. Chinese utility model patent (Issued No. ZL201520272366.4), 2015-09-16.

**SONG Chunlin**, WANG Genxu, SUN Xiangyang. A water surface greenhouse gas auto-sampler chamber. Chinese utility model patent (Issued No. ZL201620140461.3), 2016-08-24.

## PRESENTATIONS

### Oral Presentations

**Chunlin Song**, Genxu Wang, Tianxu Mao. "Seasonal riverine export of dissolved carbon affected by active layer freeze-thaw cycles in headwater streams of the Qinghai-Tibet Plateau permafrost region". AGU Fall Meeting, New Orleans, USA. 12/13/2017.

Genxu Wang, **Chunlin Song** (speaker). "Mechanism of the surface runoff processes of a permafrost watershed in the Qinghai-Tibet plateau". The 2nd Asian Conference on Permafrost, Sapporo, Japan. 07/03/2017.

**Chunlin Song**, Tianxu Mao. "Carbon export and its control factors of Yangtze River source region". Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, Chengdu, China. 11/13/2016.

**Chunlin Song**. Invited to give a presentation about doctoral life to undergraduates at the mountain science summer school. Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, Chengdu, China. 07/21/2016.

**Chunlin Song**. "Theory and application of Meta-analysis". Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, Chengdu, China. 05/03/2016.

## EXPERIENCE

**Professor Genxu Wang, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences** **July 2015-Present**

*Research Assistant:* Preliminary study, field work, sampling campaign, data logging, sample analysis and data analysis for project "Three-River Headwaters Region Runoff Generation, Changing Mechanisms, and Permafrost Ecohydrological Processes Modelling".

**Professor Genxu Wang, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences** **July 2014-Sept. 2017**

*Research Assistant:* Field work, sampling campaign, data logging, sample analysis and data analysis for project “The ecological processes of the cryosphere change and its impact on carbon cycle”.

**Assistant Professor Xiangyang Sun, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences** **Aug. 2014-June 2015**

*Research Assistant:* Field work, water sampling campaign, sample analysis and data analysis for project “Seasonal Variations and Impact Factors of Organic Carbon Export in Small Alpine Forest Watershed”.

**Assistant Professor Xiangyang Sun and Ruiying Chang, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences** **Summer 2013 and Summer 2014**

*Science Research Volunteer:* Soil and plant sampling along elevation gradient in Mount Gongga, field equipment installation and maintenance, and related lab work at Alpine Ecosystem Observation and Experiment Station of Mount Gongga for two projects: “Water-carbon Interactions and Spatial-temporal Mechanisms of Dark Coniferous Forest Ecosystem in Southwest China” and “Mountain Forest Water-use Efficiency along Elevation Gradient in East Slope of Mount Gongga”.

**Institute of Mountain Hazards and Environment, Chinese Academy of Sciences & University of Chinese Academy of Sciences** **Sept. 2013-June 2015**

*Leader of the Master Program Class:* In charge of financial affairs and organise class or institute events.

**College of Water Resources and Hydropower, Sichuan University** **Summer 2012**

*Engineering Internship:* Comprehensively visit and learn about hydrologic and water resources engineering at Zipingpu Reservoir, Dujiangyan Project, and E’mei Mountain, Sichuan, China.

**Sichuan University Library** **Sept. 2009-June 2011**

*Library Service Volunteer:* Provide services for the readers and organise library events at Sichuan University Library.

## AWARDS & HONORS

China Scholarship Council Fellowship for Joint Ph.D. Training Program, 2017 (\$24,000)

Pacemaker of Merit Student Award, 2017 (1%)

National Scholarship for Doctoral Students, 2016 (6%, ¥30,000)

First Prize of the IMHE Academic Award, 2016 (10%, ¥14,500)

Second Prize of the Director Scholarship of the Chengdu Branch of the Chinese Academy of Sciences, 2015 (1.7%, ¥1,000)

National Scholarship for Master Students, 2014 (3%, ¥20,000)

First Prize of the IMHE Academic Award, 2014 (6%, ¥12,000)

Merit Student Award of the University of Chinese Academy of Sciences, 2014, 2015, & 2016 (15%)

Sichuan University Excellent Graduation Thesis Award, 2013 (5%)

## PROFESSIONAL TRAINING

Apr. 2016 Meta-analysis Workshop in Ecology and Conservation. Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences.

May 2014 Development of Data Acquisition and Flux Observation Technology Training Conference. TRUWEL TECHNOLOGY, Beijing.

## SKILLS

**Equipment:** vario TOC select TOC/TN<sub>b</sub> Analyser; Los Gatos Research DLT-100 Liquid Water Isotope Analyser; Eddy Covariance Systems; Campbell Scientific CR1000 dataloggers; LI-8150 Soil CO<sub>2</sub> Flux System; Cryogenic carbon purification from water samples; Thermo MAT 253 Stable Isotope Analyser

**Experimental:** Working knowledge in many field works related to hydrology and ecology

**Computer:** R, ArcGIS, EndNote, Adobe Photoshop, Adobe Illustrator, AutoCAD, HTML & CSS, GitHub, Microsoft Office, macOS iWork

**Language:** Chinese (native speaker), English (6.5 in IELTS), German (beginner)

## REFERENCES

### **Genxu Wang**

Professor of Institute of Mountain Hazards and Environment, Chinese Academy of Sciences.

Email: wanggx@imde.ac.cn, Phone: (86)02885233420

### **Xiangyang Sun**

Associate Professor of Institute of Mountain Hazards and Environment, Chinese Academy of Sciences. Email: sunxiangyang@imde.ac.cn.

### **Ruiying Chang**

Associate Professor of Institute of Mountain Hazards and Environment, Chinese Academy of Sciences. Email: changruiying@imde.ac.cn.

### **Caiyun Yao**

Director of Graduate Office of the Institute of Mountain Hazards and Environment, Chinese Academy of Sciences. Email: cyyao@imde.ac.cn, Phone: (86)02885233672.

Updated to April 2018