

CHUNLIN SONG

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EDUCATION

11/2017-present Yale School of Forestry & Environmental Studies

Visiting PhD student, advisor: Prof. Peter A. Raymond

09/2015-present Institute of Mountain Hazards and Environment, Chinese Academy of Sciences & University of Chinese Academy of Sciences

Ph.D. student of Physical Geography, advisor: Prof. Genxu Wang

Dissertation Title: Riverine Carbon and Water Transport Processes under Multiple Scales of the Yangtze River Source Region

09/2013-08/2015 Institute of Mountain Hazards and Environment, Chinese Academy of Sciences & University of Chinese Academy of Sciences

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

09/2009-06/2013 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

Genxu Wang, Tianxu Mao, Juan Chang, **Chunlin Song**, Kewei Huang. Processes of runoff generation operating during the spring and autumn seasons in a permafrost catchment on semi-arid plateaus. *Journal of Hydrology*, 2017: **550**(7), 307-317. DOI: 10.1016/j.jhydrol.2017.05.020.

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

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. 03/07/2017.

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. 13/11/2016.

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. 21/07/2016.

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

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-September 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 **August 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 **September 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 **September 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

2016.4 Meta-analysis Workshop in Ecology and Conservation. Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences.

2014.5 Development of Data Acquisition and Flux Observation Technology Training Conference. TRUWEL TECHNOLOGY, Beijing.

SKILLS

Equipment: vario TOC select TOC/TNb Analyser; Los Gatos Research DLT-100 Liquid Water Isotope Analyser; Eddy Covariance Systems; Campbell Scientific CR1000 dataloggers; LI-8150 Soil CO₂ Flux System; Vacuum lines for CO₂ extraction from water samples

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

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

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.

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Xiangyang Sun

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

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Ruiying Chang

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

Email: changruiying@imde.ac.cn, Phone: (86)13882125578

Caiyun Yao

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Updated to November 2017