

CV of Dr. Zhengliang Yu

PERSONAL INFORMATION:

Name: Zhengliang Yu

Gender: Male

Date of Birth: October, 1990

Native Place: Zhangjiajie, Hunan Province, China



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CURRENT POSITION

***Post-doctor**, Institute of Tibetan Plateau Research, Chinese Academy of Sciences (ITPCAS), Beijing, China.*

Study interests: Chemical weathering processes and rates in glacial environments, especially for alpine glaciers on the Tibetan Plateau (TP); Chemical weathering and its carbon sink effect in tectonic mountain belts.

EDUCATION

***Sept 2016-Dec 2019:** Doctor of Science degree, Physical Geography as major, Institute of Tibetan Plateau Research, Chinese Academy of Sciences (CAS), Beijing, China. Supervisor: Prof. Guanjian Wu. **Ph.D Thesis:** Chemical weathering and its controlling factors in the Nam Co basin, Tibetan Plateau.*

***Sept 2013-Jul 2016:** Master of Science degree, Quaternary Geology as major, Southwest University, Chongqing, China. Supervisor: Prof. Daoxian Yuan. **Master Thesis:** Characteristics of fly ash particles in precipitation of Jinfo Mountain in Chongqing and their migration rule in the epikarst system.*

***Sept 2009-Jul 2013:** Bachelor of Science degree, Geographical Science, Taiyuan Normal university, Taiyuan, Shanxi province, China.*

MAIN FIELD EXPERIENCES

Jun-Jul 2018, Aug-Sept 2019 Participated in field works of the Germany-Sino cooperation project ‘Geo-ecosystems in transition on the Tibetan Plateau (TransTiP)’ in the Nam Co basin to explore the evolution of geomorphy (moraine in particular) at high elevation regions (5100-5600 m a.s.l.).

Oct 2018, Oct-Dec 2020 Participated in field of works of ‘the Second Tibetan Plateau Scientific Expedition and research (STEP) program’ to investigate the hydrochemistry of temperate glacial runoff at the southeast TP.

Jul 2016-Sept 2018 Investigated chemical weathering conditions of the Nam Co basin to study seasonal variation of chemical weathering processes and rates, the influence of glaciation, lithology, and other environmental factors on chemical weathering, and chemical weathering intensity of the central TP compared with edge regions of this plateau.

Sept 2013-May 2016 Monitored the impacts of tourism activities on involvement of hydrochemistry of groundwater in a karst catchment of the Jinfo Mountain (a World Natural Heritage Site), Chongqing, southwest China.

Jul-Aug 2015 Participated in the field survey works of the 1:50000 hydrogeochemical map in northwest Hubei province.

Mar-Apr 2014 Investigated the pollutants provenance of a drinking karst spring (supplied for over 4000 local people) by using tracers test method at Chongqing, southwest China.

ONGOING RESEARCHES

- [1] The influences of temperate glaciers on chemical weathering at catchment scale in strong tectonic regions of southeast TP to disentangle roles glaciers played in chemical weathering of this special area.
- [2] Chemical weathering processes and intensities under contrasting temperate glaciers, eastern Gangrigarb Mountains, southeast TP.
- [3] Chemical weathering conditions of the two large basins in the southeast TP, i.e. the Parlun Tsangpo river system (the largest tributary of the Yarlung Tsangpo River in terms of runoff) and Zayu River basin.

PUBLICATIONS

- [1]. **Zhengliang Yu**, Ni Yan, Guangjian Wu*, et al. 2021. Chemical weathering in the upstream and midstream reaches of the Yarlung Tsangpo basin, southern Tibetan Plateau. *Chemical Geology*, 559, 119906.
- [2]. **Zhengliang Yu**, Guanjian Wu*, Laura Keys, et al. 2019. Seasonal variation of chemical weathering and its controlling factors in two alpine catchments, Nam Co basin, central Tibetan Plateau. *Journal of Hydrology*, 576:381-395.
- [3]. **Zhengliang Yu**, Daoxian Yuan*, Pingheng Yang, et al. 2016. Influences of tourism activities on hydrochemistry of karst groundwater revealed by principal component analysis and on-line monitoring technique. *Acta Geoscientica Sinica*, 2016, 37(2), 232-240 (in Chinese with English abstract).
- [4]. **Zhengliang Yu**, Pingheng Yang*, Ruiyi Zhao, et al. Influences of biological processes on geochemical characteristics: An example of a mountain karst pool in spring season. *Environmental Science*, 2015, 36(4), 1263-1269 (in Chinese with English abstract).
- [5]. **Zhengliang Yu**, Pingheng Yang*, Weili Jing, et al. Characteristics and resources of fly ash particles in the snowpack of Jinpo Mountain, Chongqing. *Environmental Science*, 2015, 36(12), 4381-4388 (in Chinese with English abstract).
- [6]. **Zhengliang Yu**, Pingheng Yang*, Haihua Gu, et al. Application of high-resolution online tracer technique in distinguishing the contaminant source of water resources in karst area: A case study of Yuquankan spring in Qianjiang county, Chongqing. *Carsologica Sinica*, 2014, 33(4), 498-503 (in Chinese with English abstract).
- [7]. **Zhengliang Yu**, Guangjian Wu*, Fei Li, et al. Glaciation enhanced chemical weathering in a cold catchment, western Nyaingêntanglha Mountains, Central Tibetan Plateau. *Under review after revised*.
- [8]. **Zhengliang Yu**, Guanjian Wu*, Fei Li, et al. Small-catchment perspective on chemical weathering and its controlling factors in the Nam Co basin, central Tibetan Plateau. *Under review*.