

# Yusi Li

Email: yli23@gwu.edu

## **EDUCATION AND QUALIFICATIONS**

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BSc Environmental Science (Environmental Ecology Engineering) 09/2013-06/2017

Qinghai University (Under "211 Project")

- ✚ Coursework including Organic Chemistry, Analytical Chemistry, Environmental Chemistry, Environmental Evaluation, Restoration Ecology, Environmental Engineering, Environmental Monitoring, Landscape Ecology, etc
- ✚ GRE score: Quantitative 164/170, Verbal 147/170
- ✚ Awards: Merit Student for academic excellence and standout comprehensive appraisal
- ✚ Thesis: The research of the relationship between plant community diversity and edaphic factors in Longbao Lake wetland

## **SELECTED RESEARCH EXPERIENCE**

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Spatiotemporal Distribution of Nitrogen and Phosphorus in Alpine Lakes in The Sanjiangyuan Region of The Tibetan Plateau

10/2015-01/2016

- ✚ Lu, S. J., Si, J. H., Hou, C. Y., *Li, Y. S.*, Wang, M. M., Yan, X. X., ... & Li, S. S. (2017). Spatiotemporal distribution of nitrogen and phosphorus in alpine lakes in the Sanjiangyuan Region of the Tibetan Plateau. *Water Science and Technology*, wst2017091.
- ✚ To provide theoretical basis for alpine source lake protection, ten samples were taken from each lake annually during 2012 to 2015. Each year, the indices of nitrogen and phosphorus nutrient were measured.
- ✚ Lake water samples were collected in normal level period (May), wet season (August), dry season (November) from 2012 to 2014 and in normal level period (May) in 2015. Bucket or bottle container was utilized to collect surface water and heavy hammer was used to collect deep water. And water samples in each point were mixed.
- ✚ Measured the content of nitrate nitrogen, ammonia nitrogen, nitrite nitrogen, total phosphorus and total nitrogen of water samples with UV spectrophotometry, Nessler's reagent spectrophotometry, Hydrochloric acid naphthalene ethylenediamine spectrophotometry, etc.

The Identification on Drought -Resistance of Elymus L. Germplasm Materials in Seedings Stage

09/2016-01/2017

- ✚ Select 50 different germplasm materials like Elymus L. Puccinellia, Festuca, Poa, Roegneria, Deschampsia, Deschampsia to conduct research upon their characters of drought-resistance.
- ✚ Check their membrane permeability and content of MDA, proline and chlorophyll in 0d, 5d, 10d of drought spell.
- ✚ Assess their character of drought-resistance with the subordinate function of fuzzy math and compare their drought-resistance.

Water Quality Characteristics of Comparative for Different Alpine Lakes in Sanjiangyuan Region

03/2015-07/2015

- ✚ Take Eling Lake, Zhaling Lake, Longbao Lake and Star Sea as the study object and set three sampling points in each of them.
- ✚ From 2011-2015, measure the chemical and physical indicators of water quality of four lakes each year.
- ✚ Based on Yao Zhilin Index and evaluate the pollutant aggregative index of four lakes.

Longbao Lake Wetland Degradation Driving Mechanism Model Construction and Trend Prediction

03/2015-07/2015

- ✚ Collect data in regional climate, runoff, wetland use and cover of Longbao Lake of Sanjiangyuan Region from 1993-2015, and analyze the main factors determining the wetland area.
- ✚ Build wetland degradation model according to the changing characteristics of natural and anthropic factors and predict the future degradation trend for the next 20 years.

Research upon co-processing the printing and dyeing wastewater with both the ZVI and decoloring bacteria 09/2015-12/2015

- ✚ Mainly test the clearance effect of nanometer ZVI upon methylene blue and investigate the effect within different

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temperature, PH and reaction period.

## **INTERNSHIP**

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Dean Assistant at Qinghai Provincial Environmental Project and Protection Technology Center 05/2016-07/2016

- ✚ Collect meteorological and hydrological data of counties of Qinghai and sorted out.
- ✚ Understand how the workers research and protocol upon provincial environmental protection comprehensive and specialized planning, and how to assess the comprehensive and specialized planning.
- ✚ Participate in negotiation among same Environmental Impact Assessment (EIA) corporations in the Planning Center, and learn the regulations and law in contract approval process, and also the diverse index in proposed project prospectus.

## **VOLUNTEER ACTIVITY**

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Volunteer in a psychological counseling center 07/2015-08/2015

- ✚ Assisting in sandplay psychological consultation with children; document archiving; reception and office support, etc.

## **LANGUAGES/SKILLS/OTHERS**

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- ✚ Languages: Mandarin (native); English (excellent oral English)
- ✚ Computer Skills: Proficient in CAD, MS Office(word, powerpoint, excel), C programming, Access Database, UVprobe
- ✚ Certificates: National Computer Rank Level II, Guzhen Level 8<sup>th</sup>
- ✚ Hobbies: Listening music, writing novels, jogging, long-run