SHUANG SONG

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For more information, please go to personal academic profile website: https://cv.songshgeo.com

EDUCATION

BEIJING NORMAL UNIVERISTY, Beijing, China   *Sep 2018 - Present*
Ph.D. Candidate in Physical Geography

SUN YAT-SEN UNIVERISTY, Guangdong, China   *Sep 2015 - Jul 2018*
B.S. of History Study (The second major)

SUN YAT-SEN UNIVERISTY   *Sep 2014 – Jul 2018*
B.S. of Science, Physical Geography

TECHNICAL SKILLS

Programming & Software: **Python, LaTex, Netlogo, R**
Study approaches: **Data analysis, Field experiment, GIS, Questionnaire, RS**

INTERESTS

- Social-ecological system, Environmental governance, System evolution, Sustainability
- Social-hydrology, Human-water relationship, Regime shift, Adaptation
- Water resources management, Historical geography, Network analysis

PROJECTS

PROJECT: Social-ecological system analysis of the Yellow River Basin   *2017 - Present*
- China's Yellow River Basin (YRB) is one of the most anthropogenically altered large river basins worldwide. Therefore, coupling human and natural system studies is crucial to support its sustainability. This project aims at using a social-ecological system framework to deepen our understanding of this complex system.

PROJECT: Complex system modelling of human-water relationships   *2018 - Present*
- Both social and hydrological systems are dynamic systems with unique evolutionary patterns at different scales. Consequently, human-water relationships (including feedback) are crucial interlinks of this keep-evolving complex social-hydrological system. Complex system modelling is an approach to depicting complex interplays in relatively simple ways, providing new insights beyond considering sub-systems separately. This project aims at using complex system modelling methods to deepen our understanding of the evolution of human-water relationships.

PROJECT: Self-organized governance for grassland ecological restoration   *2021 - Present*
- Is grassland management a tragedy of the commons or a "tragedy of the private sector"

PUBLICATIONS

* **Full publication list can be found in personal academic profile website: https://cv.songshgeo.com**

Shuang Song, Shuai Wang*, Xutong Wu, Yongyuan Huang, Bojie Fu (2022). Decreased Virtual Water Outflows from the Yellow River Basin Are Increasingly Critical to China. In *Hydrology and Earth System Sciences*

Shuang Song, Jianhui Du*, Qirui Wu, Mingyang Ni, Yijia Wang, Yingling Zhang (2021). The responses of Spinifex littoreus to sand burial on the coastal area of Pingtan Island, Fujian Province, South China. In *Eco-science*

Shuang Song, Shuai Wang*, Bojie Fu, Yuxiang Dong, Yanxu Liu, Haibin Chen, Yaping Wang (2020). Improving Representation of Collective Memory in Socio-hydrological Models and New Insights into Flood Risk Management. In *Journal of Flood Risk Management*

Shuai Wang, Shuang Song, Junze Zhang, Xutong Wu, Bojie Fu* (2020). **Achieving a Fit between Social and Ecological Systems in Drylands for Sustainability. In** *Current Opinion in Environmental Sustainability*

Shuang Song, Shuai Wang*, Bojie Fu, Yanxu Liu, Kevin Wang, Yikai Li, Yaping Wang (2020). **Sediment Transport under Increasing Anthropogenic Stress: Regime Shifts within the Yellow River, China. In** *Ambio*

Shuang Song, Shuai Wang*, Bojie Fu, Haibin Chen, Yanxu Liu, Wenwu Zhao (2019). **Study on adaptive governance of social-ecological system: Progress and prospect. In** *Acta Geographica Sinica*

AWARDS

BEIJING NORMAL UNIVERISTY *Jun 2021*
Youth Academic Forum 'Graduate Excellent Academic Report Award'

BEIJING NORMAL UNIVERISTY *Nov 2020*
Chinese National Scholarship Top 5%

BEIJING NORMAL UNIVERISTY *Nov 2019*
First prize for academic speech contest best popularity prize

BEIJING NORMAL UNIVERISTY *Jun 2018*
Excellent graduation thesis excellent graduates

SUN YAR-SEN UNIVERSITY *Jun 2018*
Guanghua Education Scholarship

SUN YAR-SEN UNIVERSITY *Nov 2017*
First-class Scholarships for Outstanding Students

SUN YAR-SEN UNIVERSITY *Nov 2016*
Chinese National Scholarship Top 5%