Shuang Song

Ph.D. candidate in Physical Geography, Beijing Normal University, China.



Basic information

Name: Shuang Song Birth: December 24th 1996 Nationality: China Institution: Beijing Normal University

♀ Address

No.19, Xinjiekouwai St. Haidian District, Beijing, China, 100875

m Research Experiences

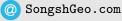
Water Resources Management Human-water relationship Social-ecological systems Complex system modelling Socio-hydrology

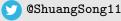
Programming

Python	•	•	•	•	•	
Shell	•	•	•	•	0	0
LaTeX	•	•	•	•		0
Matlab	•	•	0	0	0	0
R						

LANGUAGES

Chinese English mother tongue







RESEARCH DESCRIPTIONS

Mr. Shuang Song is a Ph.D. candidate at the State Key Laboratory of Earth Surface Processes and Resource Ecology, Beijing Normal University. His ongoing Ph.D. projects include quantitative analyses of human activities' impact on water resources and socio-hydrological systems modeling. His work also includes integrated geography and landscape ecology.

EDUCATIONAL BACKGROUND

2018-now

Ph.D. Candidate in Geography

BEIJING NORMAL UNIVERSITY · Beijing, China 💡

Representative Courses: Agent-based modelling, Complex network analysis, Big data in Geography Analysis, Research Methods of Environmental Evolution, Higher Economic Geography, et al.

GPA: 3.7 / 5 [Supervisor: Prof. Dr. Shuai Wang Prof. Dr. Bojie Ful.

2014-2018

B.S. of Science, Physical Geography & History Study (The second major)

SUN YAT-SEN UNIVERSITY Guangzhou, China 💡

Representative Courses: Hydrology, Physical Geography, Histrocial Geography, et al. **Dissertation titled:** "Testing of Human-Flood Model: Taking floodplain of the Yellow River in Ningxia as an exapmle."

GPA: 3.7 / 5 [Supervisor: Prof. Dr. Yuxiang Dong] .

CURRENT PROJECTS

» MORE

2018-now

Yellow River Basin's Human-water relationship modelling

Core Member · Beijing Normal University ♀

Abstract: My Ph.D. dissertation titled "Evolution of human-water relationship and its mechanism in the Yellow River Basin". Here, I'm working on an Agent-Based Model to emulate the evolution of human-water relationship in the Yellow River Basin, China.

2017-2020

Socio-hydrology and sustainability of the Yellow River, China

Core Member · Beijing Normal University ♀

Abstract: Participated in the finished program as a core member. I improved a classical socio-hydrological system dynamics model by coupling a social module. Furthermore, I quantitatively analyzed the regime shift of sediment transport for the past 2000 years in the Yellow River Basin, China, and attributed it to human activities.

ACADEMIC PUBLICATIONS

» MORE

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2021	Shuang Song et al., Decreased Virtual Water Outflows from the Yellow River Basin Are					
	Increasingly Critical to China. Hydrology and Earth System Science (IF=5.748), Q1, openly					
	discussing.					

Shuang Song et al., Improving representation of collective memory in socio-hydrological models and new insights into flood risk management. *Journal of Flood Risk Management* (IF=3.884), Q2.

Shuang Song et al., The responses of *Spinifex littoreus* to sand burial on the coastal area of Pingtan Island, Fujian Province, South China. *Écoscience* (IF=1.950), Q4.

Shuai Wang, Shuang Song et al., Achieving a Fit between Social and Ecological Systems in Drylands for Sustainability Current Opinion in Environmental Sustainability (IF=6.984), Q2.

Shuang Song et al., Sediment transport under increasing anthropogenic stress: Regime shifts within the Yellow River, China. *Ambio* (IF=5.129), Q2.

2019 Shuang Song et al., Study on adaptive governance of social-ecological system: Progress and prospect *Acta Geographica Sinica* (IF-7.204), in Chinese.

AWARDS

2020	Chinese National Scholarship	Beijing Normal University	<u></u>
2019	Academic Presentation: 1st & most popular	Beijing Normal University	血
2018	Excellent Graduation Thesis	Sun Yat-Sen University	血
2017	Chinese National Scholarship	Sun Yat-Sen University	血
2016	Chinese National University Geographic Science	Geographical Society of China	<u></u>
	Presentation: Leader & 1st & Most Innovative award.		

Shuang Song

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☐ More information accessible at Research Gate