

Yu LIU

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EDUCATION

Shandong Normal University 2019.09-2022.06

M.S., Cartography and geographic information system

GPA: 3.99/5.00 (3/39)

Shandong Normal University 2015.09-2019.06

B.S., Geographic Information Science

GPA: 3.97/5.00 (1/49)

PUBLICATIONS

[1] **Liu Yu***, Wang Zhipeng, Liu Xuan, Zhang Baolei. Complexity of the relationship between 2D/3D urban morphology and the land surface temperature: a multiscale perspective. [J]. Environmental science and pollution research international, 2021.

[2] **Liu Yu***, Jiao Ruiting, Zhao Liyao, et al. Impact of Greenization on the Marginal Utility of Intensity of Carbon Emissions and Factors Affecting it in China[J]. Energy Engineering, 2021, 118(2):363-378.

[3] **Liu Yu***, Zhu Xiaowei, Liu Kai, Zhang Baolei. Study on spatial-temporal Coupling coordination between Land development degree and land use benefit in Shandong Province [J]. Journal of Xi'an University of Technology, 2021, 37(02):165-175.

[4] **Liu Yu***, Shuo Sun, Le Yin, Zhang Baolei. Considering local climate zones to detect effects of 2D/3D urban morphology on seasonal land surface temperatures using boosted regression trees, Urban Climate (*peer-review*)

[5] Kang Jieming, **Liu Yu***, Zhu Xiaowei, Jin Changdong, Sun Shuo, Zhang Baolei. Identification and optimization of ecological security pattern in Jiaodong Peninsula [J]. Journal of Ecology and Rural Environment, 2020, 36(08):1015-1025.

[6] Yuping Bai, Xiangzheng Deng, Yue Zhang, Chao Wang, **Yu Liu***. Does climate adaptation of vulnerable households to extreme events benefit livestock production? [J]. Journal of Cleaner Production, 2019, 210:

RESEARCH EXPERIENCE

Analysis of Influencing Factors and Prevention and Control System of Agricultural Non-point Source Pollution in River Basin Based on System Dynamics 2019.01-Present

- The system dynamics method is used to analyze the influencing factors of agricultural non-point source pollution quantitatively
- Optimize the prevention and control system to provide theoretical, data, and method support for "winning the battle of agricultural non-point source pollution prevention and control"

Supervisor: Baolei Zhang, Professor of Shandong normal university

Research on the Management and Optimization Mechanism of Farmland Occupation and Supplement Balance Index in Shandong Province 2020.05-2020.12

- Using the GIS method, we analyze the total and spatial distribution of cultivated land reserve resources in Shandong Province
- Study the influence of planning, ecological protection, development, and construction of "three lines and three zones" on the potential of supplementary cultivated land, and calculate the potential of supplementary cultivated land scientifically

Supervisor: Baolei Zhang, Professor of Shandong normal university

Research on Ecological Environment Protection and Ecological Security Pattern Construction in Shandong Province 2019.10-2019.12

- Investigate the current situation of ecological environment in Shandong Province based on the least resistance model
- Construct the ecological security pattern of Dongying city

Supervisor: Baolei Zhang, Professor of Shandong normal university

Zaozhuang City Ecological Protection Red Line Assessment and Adjustment

2019.06-2020.05

- Assess the overlap between the ecological red line and other projects, and formulate specific plans for the adjustment of the ecological red line by handling conflicts

Supervisor: **Baolei Zhang**, Professor of Shandong normal university

PRACTICE AND INTERNSHIP

School of Resources and Environment, Lanzhou University /2018 Discovery Program Joint practice of geography between universities of mainland and Hong Kong

2018.07-2018.08

Internship

- Traveled the three natural geographical regions of eastern China, Qinghai-Tibet Alpine and cold regions, northwest arid regions, and spans Gansu, Sichuan, Qinghai, and Inner Mongolia, covering ten latitudes from north to south with a journey of more than 5,500 kilometers. It has carried out all-round, multi-perspective, and skilled field geographical investigations
- Led the team to extract the shoreline of Qinghai Lake from 1990 to 2018 with satellite remote sensing data and won the first prize and unanimous recognition from all teachers

Institute of Geographic Sciences and Natural Resources research, Chinese Academy of Sciences/Research on the Development of Grass Husbandry in Inner Mongolia

2017.07-2017.08

Member of research

- Sorted out the ecological grass and animal husbandry policies that have been implemented in China since the founding of the People's Republic of China
- Responsible for the research on the development of grass husbandry in several districts and counties of Hulun Buir
- Statistical data and summary data were used to form a report on the development of Grass husbandry in Inner Mongolia

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SCHOLARSHIPS&AWARDS

Scholarships for High Academic Achievement:

National scholarship	2021.10, 2018.10
First-class scholarship for excellent undergraduate students	2018.07, 2017.12
Second-class scholarship for excellent graduate students	2020.12

Competition Awards:

The most innovative theme award / Second Prize of the Third China University Geographical Science Exhibition Competition	2017.12
Special prize of the 15th Shandong Province "Challenge Cup" Academic Competition	2017.05
Silver Prize in the Entrepreneurship Competition for young College students	2018.03

Honorary Titles:

Excellent maker in Shandong Province	2018.12
Outstanding graduate in Shandong Province	2019.06
Excellent graduate student in Shandong Normal University	2019.05
Advanced individual in science and technology innovation and entrepreneurship of college	2018.01
Excellent bachelor's dissertation of Shandong Normal University	2019.06
Outstanding student	2018.07, 2017.12
Excellent Postgraduate	2021.11, 2020.12
Excellent Postgraduate Cadre	2021.11, 2020.12

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SKILLSET

Statistical analysis: SPSS, STATA, GeoDA
Professional software: ENVI, ArcGIS
Picture plots software: Origin, Visio, and Photoshop