KAIWEN LI



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Birthday: 1994.11.22

**Career Focus**

Vulnerability and robustness assessment of critical infrastructures

Regional or global networks of weather extremes

**Summary of Skills**

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| * Complex network * Interdisciplinary background * Weather extremes modelling | * Data analysis * Proficient in MATLAB and ArcGIS |

**Education**

**PhD: Beijing Normal University** — Beijing, China (09.2020-present)

Faculty of Geographical Science, Natural disaster, Doctoral supervisor: Prof. Ming Wang

Courses mainly include Natural disaster science, Risk analysis, complex network.

**Master: Beijing Normal University** —Beijing, China (09.2017-07.2020)

Faculty of Geographical Science, Safety science and engineering, Master degree supervisor: A.P. Kai Liu

Courses mainly include Geographic Information System, Simulation, Disaster modelling.

**Bachelor: Xi’an University of Science and Technology** — Xi’an, China (09.2013-07.2017)

College of Safety Science and Engineering, Safety science and engineering

Courses mainly include Engineering Mechanics, fluid mechanics, Flame and Combustion, Coal Mine Gas Control and Utilization.

**Research Experience (PhD)**

* Participated in the National Natural Science Foundation of China under grants 72091512, concentrated on ***data analysis and process.***
* Participated in the National Natural Science Foundation of China under grants 41771538, concentrated on ***vulnerability assessment of critical infrastructures.***
* Participated in the National Key Research and Development Plan (2017YFC1502902), concentrated on ***climate networks modelling.***

**Publications**

**Published:**

1. **Li, K.** , Liu, K. , & Wang, M. . (2021). Robustness of the Chinese power grid to cascading failures under attack and defence strategies. *International Journal of Critical Infrastructure Protection*, 100432. <https://doi.org/10.1016/j.ijcip.2021.100432>
2. **Li, K.** , Wang, M. , & Liu, K. . (2021). The study of temperature regionalization in china using complex networks. *International Journal of Climatology*. https://doi.org/10.1002/joc.7478
3. **Li, K.** , Wang, M. , & Liu, K. The Study on Compound Drought and Heatwave Events in China Using Complex Networks. *Sustainability* 2021, 13, 12774. <https://doi.org/10.3390/su132212774>
4. He, Q., Wang, M., Liu, K., **Li, K.**, & Jiang, Z. (2021). GPRChinaTemp1km: a high-resolution monthly air temperature dataset for China (1951–2020) based on machine learning. *Earth System Science Data*, 2021, 1-29.

**Main Awards**

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| * Top-level Scholarship |  |