Di Zhu

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EDUCATION

2014 – Now	▮ **Ph.D. Candidate**	Cartography and Geographic Information Science. Institute of Remote Sensing and Geographical Information Systems, Peking University.
2017 – Now	▮ **Research Assistant**	School of Earth and Space Sciences, Peking University.
2010 – 2014	▮ **B.S.**	Geographic Information Systems. School of Earth and Space Sciences, Peking University.
2011 – 2014	▮ **B.S.**	Economics. National School of Development, Peking University.

ACADEMIC EXPERIENCES

Peer-reviewed Journal Papers

1 Zhu, D., Huang, Z., Shi, L., Wu, L., & Liu, Y. (2017). Inferring spatial interaction patterns from sequential snapshots of spatial distributions. *International Journal of Geographical Information Science*, (4), 1–23. 🔗 https://doi.org/10.1080/13658816.2017.1413192

2 Zhu, D. & Liu, Y. (2017). An incremental map-matching method based on road network topology. *GEOMATICS AND INFORMATION SCIENCE OF WUHAN UNIVERS*, *42*(1), 77–83. 🔗 http://ch.whu.edu.cn/CN/10.13203/j.whugis20150016

3 Zhu, D., Wang, N., Wu, L., & Liu, Y. (2017). Street as a big geo-data assembly and analysis unit in urban studies: a case study using beijing taxi data. *Applied Geography*, *86*, 152–164. 🔗 https://doi.org/10.1016/j.apgeog.2017.07.001

4 Zhang, S. & Zhu, D. (2018). Scale effects on spatial interactions: an empirical study using taxi data (under review). *ISPRS International Journal of Geo-Information*.

5 Zhu, D., Cheng, X., Zhang, F., Gao, Y., Goodchild, M., & Liu, Y. (2018). A spatial interpolation method based on conditional generative adversarial neural networks (in progress).

6 Zhu, D. & Liu, Y. (2018). The distance effect in spatial interaction and spatial similarity: a big data view of tobler's first law (in progress).

7 Zhu, D., Shi, L., & Liu, Y. (2018). Evaluate uniqueness from social ties and locations using mobile phone data (in progress).

Conferences

1 Zhu, D. & Liu, Y. (2016). The distance effect in spatial interaction and spatial similarity: a big data view of tobler's first law. In *The 33rd international geographical congress (oral presentation)*.

2 Zhu, D., Wang, N., & Liu, Y. (2016). Street perspective: a novel spatial unit in urban social sensing. In *17th international symposium on spatial data handling (oral presentation)*.

3   Zhu, D., Shi, L., Wang, Y., Cheng, X., & Liu, Y. (2017). Infer spatial interaction patterns from spatial distributions. In *The 25th international conference on geoinformatics (oral presentation)*.

PROJECTS

2017.01-2021.12	**National Science Fund for Distinguished Young Scholars (no. 41625003)** Geo-spatial models and analytical methods (SI).
2017.07-2021.07	**The National Key Research and Development Program of China (no. 2017YFB0503600)** Big geo-data mining and spatio-temporal pattern discovery (SI).
2015.01-2016.12	**National Natural Science Foundation of China (no. 41428102)** Spatial optimizing of urban facilities to mitigate traffic congestion: a case study of Beijing (SI).
2013.01-2016.12	**National Natural Science Foundation of China (no. 41271386)** Investigating human mobility pattern based on massive spatio-temporal data (SI).

AWARDS

2011	**54 Scholarship**, Peking University
2012	**Founder Scholarship**, Peking University
2014	**Longruan Scholarship**, Beijing LongRuan Technologies Inc.
2015	**Individual Scholarship for Outstanding Scientific Research**, Peking University
2016	**Special Academic Scholarship**, Peking University
2017	**Tang Lixin Scholarship**, Peking University
	Research Assistant Scholarship, Peking University

RESEARCH INTERESTS

Spatial heterogeneity, Deep learning, Spatial Analysis, Geographic Knowledge Retrieval

SKILLS

Languages	Mandarin Chinese; Strong reading, writing, listening and speaking competencies for English.
Programming	Python, SQL, LaTeX, Pytorch, ASP.NET, Java, C/C#/Cpp, HTML, CSS, JavaScript, Processing.
Misc.	Graphic design, Photography, Modern drama creation.

REFERENCES

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