

Anran Yang

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Education

National University of Defense Technology, Changsha, P.R.China

PhD candidate in Geographical Information System, 2010 - present

University of Heidelberg, Heidelberg, Germany

Visiting Scholar, 2014 - 2015

Peking University, Beijing, P.R.China

B.S. Degree in Geographical Information System, 2006 - 2010

Skill

Programming

- Very experienced in Python, JavaScript (front-end technologies) and R
- Fluent in C++, C#, Ruby, SQL, Bash and Make
- Very experienced in Linux

Research

- Spatial analysis and data visualization
- Statistics, CSP, and abstract algebra

Others

- LaTeX
- Graphics design
- Drawing

Research Experience

Volunteered Geographic Information

GIScience Research Group, University of Heidelberg (research adviser: Prof. Dr. Alexander Zipf), *Geographical information system & science Research Group, National University of Defense Technology* (research adviser: Prof. Dr. Ning Jing) ,

2014 - present; Major work:

- VGI data processing and analysis, *SQL, Python, R, Bash, Make*

High performance GIS

Geographical information system & science Research Group, National University of Defense Technology (research adviser: Prof. Dr. Ning Jing) ,

2011 - 2014; Major work:

- Design and development of the computing engine which schedules HPC tasks, *C++*
- Design of the system architecture and user interface of the frontend web application and implementation of the application with colleagues, *Ruby on Rails, JavaScript, HTML, CSS*
- Design and development of the initial versions of the cartography service and the data service, *Python, SQL*
- Deployment and administrative tools, *Python, Bash*

Tourist attractiveness research

Geosoft Lab, Peking University (research adviser: Dr. Yi Zhang),

2007 - 2011; Major works:

- Analysis of the relationship in quantity and between the spatial distribution of attractiveness of tourist attractions and the backlinks to the websites of the attractions, *C#*

Publication

- A. Yang, H. Fan, N. Jing, Y. Sun, and A. Zipf, “Temporal Analysis on Contribution Inequality in OpenStreetMap: A Comparative Study for Four Countries,” *ISPRS International Journal of Geo-Information*, vol. 5, no. 1, p. 5, Jan. 2016.
- A. Yang, L. Liu, L. Chen, and N. Jing, “Geographical Workflow System over HPC Clusters Based on MPI”, in *Proceedings of the 12th International Conference on GeoComputation*, Wuhan, P.R.China, 2013
- L. Liu, A. Yang, L. Chen, W. Xiong, Q. Wu, and N. Jing, “HiGIS-When GIS Meets HPC”, in *Proceedings of the 12th International Conference on Geo-Computation*, Wuhan, P.R.China, 2013
- Y. Zhang, L. Qi, A. Yang, L. Shi, and L. Xu, “Investigating spatial distribution of tourist attractions’ inlinks: A case study of three mountains,” *Sci. China Technol. Sci.*, vol. 53, no. 1, pp. 126–133, May 2010