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:

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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 GeoComputation, 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