CURRICULUM VITAE

BO ZHAO

College of Earth, Ocean, and Atmospheric Sciences (CEAOS)
Oregon State University
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RESEARCH INTEREST

GIScience, Cartography, Geospatial Big Data, Web GIS, Location Spoofing

Applied GIScience in Environmental Governance, Public Policy and Social Justice

EMPLOYMENT

Sept. 2016	**Assistant Professor**, College of Earth, Ocean, and Atmospheric Sciences, Oregon State University
2015 ~ 2016	**Rajawali Postdoc Fellow**, Kennedy School of Government, Harvard University
2010	**GIS Technician**, Center for Geographic Analysis (CGA), Harvard University. May 2009 - Apr. 2010.

EDUCATION

2012 ~ 2015	Ph.D. in Geography. **The Ohio State University**
2010 ~ 2019	Graduate Student in Regional Studies – East Asia. **Harvard University**
2009 ~ 2008	Graduate Student in Urban & Regional Planning. **University of Florida (UF)**
2008 ~ 2006	M.S. in Cartography and GIScience. **Nanjing University, China**
2006 ~ 2002	B.S. in Cartography and GIScience. **Nanjing University, China**

PROFESSIONAL SERVICE

2015	**Co-Chair**, Special Session on Data-Driven Geography, Association of American Geographers Annual Conference. Chicago. IL. Apr. 21 to 25.
2004	**President, Student Government**, Dept. of Urban and Resources Sciences, Nanjing University. Feb. 2003 – Jul. 2004.

TEACHING EXPERIENCE

2015	GEOG 5220 SUMMER: Fundamentals of GIS. OSU. Instructor.
	GEOG 5200S SPRING: Elements of Cartography. OSU. Teaching Assistant.
	GEOG 2200 SPRING: Mapping Our World. OSU. Teaching Assistant.
2014	GEOG 5221 FALL: GIS Simulation and Modelling. OSU. Teaching Assistant.
	GEOG 5200 FALL: Elements of Cartography. OSU. Teaching Assistant.

2008   URP 6276 FALL: Internet GIS. UF. Teaching Assistant.

PUBLICATION

2016   **B. Zhao** (2016) Study on the Efforts of Human Intention on Spatial Data Quality (Short Paper). GIScience 2016

               J.C. Liu and **B. Zhao** (2016, under review) Who Leads the Chinese Voices on Climate Change? — Evidence from Weibo. Climatic Change.

               B. Zhao and D.Z. Sui (2016, under review) True lies in big data: Detecting location spoofing in social media. Journal of Spatial Information Science.

2015   Y. Li, J Qiu and **B. Zhao** (2015, under review) Governance of Urban Ecosystems: an integrated approach to assess rapid coastal urbanization, Ecological Indicators

               D.Z. Sui and **B. Zhao** (2015) GIS as Media through the GeoWeb. In *Mediated Geographies and Geographies of Media, eds.* S.P. Mains, J. Cupples, and C. Lukinbeal. Springer. Berlin.191-208.

               X. Chen, **B. Zhao**, and E. Blackard. (2015) Unveiling Perceptions of Food Safety Scandals in China: An Exploratory Study with Search Engine. Global Media Journal.

2014   S.J. Kay, **B. Zhao**, and D.Z. Sui (2015) Can Social Media Clear the Air? A Case Study of the Air Pollution Problem. *Professional Geographer*, 67:3:351-363.

               B. Zhao and D.Z. Sui (2014) True Lies in Big Data: Detecting Location Spoofing based on Geographic Knowledge. In *Workshops on Big Data and Urban Informatics*, ed. P. Thakuriah. Chicago, IL.

2013   D.Z. Sui, Z.W. Xu and **B. Zhao** (2013) Networks in Geography. In R. Alhajj and J. Rokne, *Encyclopedia of Social Network Analysis and Mining (ESNAM)* Berlin, Springer.

               L.J. Zhang, **B. Zhao** and D.H. Jiang (2013) Research on the Conversion from CAD to GIS Data. Geomatics Technology and Equipment, 14-17. (In Chinese)

2009   Z.Y. Chen, M.C. Li and **B. Zhao** (2009) Geo-Interface - Connecting the Real World with Cyberspace. *Science of surveying and mapping, 34.* (In Chinese)

2007   **B. Zhao**, M.C. Li and Z.X. Jiang (2007) Using GeoRSS to Syndicate the Spatiotemporal Information. *Geospatial Information Technology and Applications, Proc. SPIE 6754, 675428.*

2006   **B. Zhao**, X.M. Huang and G.P. Wu (2006) OGC Web Services Based on Ajax Engine. *Geospatial Information Technology, Proc. SPIE 6421, 64210R.*

               X.M. Huang and **B. Zhao** (2006) SVG based Remote Sensing Visualization. *Remotely Sensed Data and Information, Proc. SPIE 6419, 64191N.*

B. Zhao (2006) An Introduction to UMN MapServer. *Software World,* 20:48~49. (In Chinese)

2005   **B. Zhao** and J.Z. TAN (2005) A Research on Linear Elements Smoothing in the MapInfo. *Bulletin of Surveying and Mapping*, 6:25~27. (In Chinese)

     B. Zhao and J.S. MA. (2005) Design of XML based Geo Data Model. *Geomatics Technology and Equipment*, 1:9~12. (In Chinese)

PRESENTATION

2015   Trojan Horse, Geo-piracy, and Cyber-espionage: Detect Location Spoofing in Geo-spatial Big Data. **Invited** by Center for Geographic Analysis, Harvard University. Cambridge. Dec. 3.

     Location Spoofing: An Emerging Issue in Geospatial Big Data. **Invited** by School of Geographic and Oceanographic Science, Nanjing University. Nanjing. China. Aug. 22.

     Location Spoofing in Social Media: Concept, Motivation and Social Impacts. *MapTalk Series*. **Invited** by Institute of Geographic Sciences and Natural Resource Research, Chinses Academy of Sciences. Beijing. China. Aug. 19.

2014   True Lies in Big Data: Detecting Location Spoofing based on Geographic Knowledge. *Workshops on Big Data and Urban Informatics*. Chicago, IL. Aug. 11 – 12.

     Using Weibo to Understand the Spatial-temporal Dynamics of Public Reactions to the Case of Bo Xilai (NSF supported). *IWGIS2014*. Beijing, China. Jun. 21-22.

2013   Open Source GIS. *CURA Public Seminar*. Columbus, OH. Oct. 24.

     Designing a Real-time Monitor for Social Media Data – A Case Study of Bo Xilai's Scandal (NSF supported). *CGA Annual Conference*. Harvard University. Boston, MA. May 2-3.

     Spatial Community over Social Media. *AAG Annual Conference.* Los Angeles, CA. Apr. 9-13.

     Geocoding in Public Health Research. *IPR Workshop: Getting Started with Geo-Health Research*. **Invited** by Institute for Population Research, Columbus, OH. Mar. 28. Invited.

2010   GIS Applications in Archeological Studies. **Invited** by Department of Archeology, Northwest University, Xi'an, China. Mar. 30.

2009   Using GeoDjango to Enrich the User Participation Functions of Web GIS. **Invited** by *GIS ABC Series Seminar*. Design School, Harvard University, Boston, MA. Jul. 15.

2006   OGC Web Services based on Ajax Engine. *Geoinformatics*.Wuhan, China. May 10-12.

FIELDWORK/EXPEDITION

2013   Air Pollution in Major Cities of China. In *Beijing and Shanghai*. Interviewing and data collecting. Jun. - Jul.

2010   Revisiting Major Sites of the Long March over China (Oct. 1934 to Oct. 1935). *http://goo.gl/GRyORf*. In *cities or counties across ten provinces of China, including Nanchang, Ruijin, Ganzhou, Shaoguan, Lechang, Guilin, Tongren, Zunyi, Guiyang, Kunming, Xichang, Kangding, Maerkang, Ruoergai, Hezuo, Lanzhou, Pingliang, Wuqi, Yanan and Yanchuan*. Interviewing and data collecting. Independent research. Jun. – Aug.

        Historical Remains of Neo-Confucianism: from Song Dynasty to Qing Dynasty (960 A.D. to 1912 A.D). In *cities or counties across three provinces of China, including Nanchang, Fuzhou, Jinxi, Lufang, Yingtan, Yanshan, Ehu, Shangrao, Jinhua, Wuyi, Yongkang, Wenzhou, Yuyao and Ningbo*. Interviewing and data collecting. Independent research. May – Jun.

APPLICATION AND PRODUCTION

HARDWARE

2015   A Web Cluster for Harvesting Geospatial Big Data Using Open Hardware. *http://goo.gl/3ty4NW.* Independent research.

MOBILE

2012   iOS based Industrial Project Management System for Nanning City. Project leader.
        Android based Mobile Land Use System for Hangzhou City. Project leader.

2011   NaviLite - File based Spatial Database for Mobile Environment. *http://goo.gl/RvWtWu*. Project leader.

WEB BASED

2012   Xi'an Historical Geographic Information System. The Demo at *http://goo.gl/Qpq11K* and Reported by major local newspaper at *http://goo.gl/SMVIbq.* Project leader and programmer.

2011   Web Map for Helping Chinese Street Beggar Children to Return to Their Hometown. *http://goo.gl/wqRgK7*. Independent research.

2010   Boston Map. *http://goo.gl/bXUTCJ*. CGA, Boston Area Research Initiative, Harvard. Programmer.
        Africa Map. *http://goo.gl/0KOylH*. CGA, Harvard. Programmer.

2009   Swine Flu (H1N1) Influenza Map. *http://goo.gl/FM0N94*. Reported by Microsoft Virtual Earth (*http://goo.gl/34TZIO*). Independent work.

Global Political Infrastructure Map. *http://goo.gl/qVu6dv*. Co-authored with Prof. Howard Philips from University of Washington, Seattle.

A web based Transit Trip Planner for the City of Milwaukee. Programmer.

PLUGIN/FRAMEWORK

2011   GeoCloud – a Web based Mapping Server. *http://goo.gl/1ErVbC*. Software designer and project leader.

2009   HeatMap Plugin for uMapper and ArcGIS Flex API. *http://goo.gl/UfVwcl*. Independent research.

PLATFORM

2011   Digital City Administration System for Yuhang District of Hangzhou City. *http://dt.yuhang.gov.cn/yhmap/*. Project leader.

The GIS for Ancient Nomadic People in Inner Asia. Project leader.

2008   Real Estate Evaluating System for Nanjing City. Software design and programmer.