

Dapeng Li

Department of Geography, *University of Utah*
260 S. Central Campus Dr., Rm. 270
Salt Lake City, UT-84112, USA

Tel: 1-801-581-6419 (Office)
Email: dapeng.li@geog.utah.edu
lidapeng85@gmail.com

Education

- 8/2011-present **PhD** in Geography (in progress), Department of Geography, *University of Utah*, USA
Research interests: Emergency Management, GIS, Transportation, Mobile Computing
- 9/2008-7/2011 **M.S.**, Institute of Remote Sensing & GIS, *Peking University*, P.R. China
Major: Cartography and Geographic Information Systems
- 9/2004-7/2008 **B.S.**, School of Information Engineering, *China University of Geosciences*, P.R. China
Major: Geographic Information Systems

Research Experience

- 8/2011-present **Center for Natural and Technological Hazards (CNTH)**
Department of Geography, *University of Utah*, USA, **Research Assistant**
Project: Protective Action Triggers (NSF)
- Collected wildfire evacuation zone boundary data in the western US during the 2011 fire season
 - Collected wildfire evacuation data in the western US during the 2012 fire season
 - Conducted dynamic traffic simulation in Julian, CA
 - Performed WUIVAC modeling and simulation in Julian, CA
 - Utilized geocoding/reverse geocoding in Julian, CA
- 9/2008-6/2011 **Institute of Remote Sensing & Geographic Information Systems**
Peking University, P.R. China, **Research Assistant**
- Collected topographic map division sheet data
 - Geovisualized the Chinese National Topographic Map Division boundaries
 - Mapped geographic grids of Taiwan
 - Prepared literature review for a book chapter in the book titled "Introduction to Organizing Spatial Information Using a Subdivision Framework" (in Chinese)

Work Experience

- 7/2010-9/2010 **IBM China Development Laboratory (CDL), Software Engineer (intern)**
Participated in the test and technical support for Tivoli Provisioning Manager
- Used Build Forge to install Tivoli Provisioning Manager automatically
 - Processed the installation logs using Perl
- Tools: RedHat Linux, Perl, Build Forge, Windows Server 2003
- 6/2009-9/2009 **The Near-Space Information Engineering Research Center**
Peking University, P.R. China, **Software Engineer**
Participated in the development of a 3D terrain environment:
- Constructed a 3D terrain environment using C#, ArcEngine, Visual C++ and OpenGL
- Tools: Visual C#, Visual C++, OpenGL, ArcEngine
- 6/2008-8/2008 **The Near-Space Information Engineering Research Center**

Peking University, P.R. China, **Software Engineer**

Participated in the development of a Spatial Information Mobile Service System:

- Used eMbedded Visual C++ to develop the client
- Developed the user management module at the server-side using Visual C++ 6.0 & SQL Server

Tools: eMbedded Visual C++, Visual C++, SQL Server

7/2007–1/2008

ImageInfo (Beijing) Co. Ltd, Software Engineer in Test (intern)

Participated in the development of Global Spatial Information Service System:

- Tested the components using Visual C++ 6.0
- Designed test cases and wrote test documents

Awards & Honors

2009–2010	Second-class Scholarship for Graduate Student, <i>Peking University</i>
2008	First-class Scholarship for Graduate Student, <i>Peking University</i>
2007	Sino Petroleum & Chemical Scholarship, <i>China University of Geosciences (Beijing)</i>
2006	Study Model of China University of Geosciences (Beijing)
2005	Second Prize in the 2005 National English Contest for College Students
2005	Second-class National Scholarship, <i>China University of Geosciences (Beijing)</i>
2005	Third Prize in Mathematics Competition, <i>China University of Geosciences (Beijing)</i>
2004–2007	First-class Professional Scholarship, <i>China University of Geosciences (Beijing)</i>

Refereed Journal Articles

2010	Geng, X., Cheng, C., Song, S., & Li, D. "Global Subdivision Systems Based on Map Kilo-Grids". <i>Geography and Geo-Information Science</i> , 2, 003. (in Chinese)
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Refereed Conference Preceedings

2009	Li, D., and Cheng, C. "A proposed architecture for emergency response systems based on Digital Earth". <i>International Society for Optics and Photonics</i> , 78400V–78400V–8.
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Conference Presentations

2013	Li, D. "Social media in natural disasters: mapping tweet density in Hurricane Sandy". <i>Maps on the Hill</i> , Salt Lake City, Utah.
2009	Li, D., and Cheng, C. "A proposed architecture for emergency response systems based on Digital Earth." <i>The Sixth International Symposium on Digital Earth</i> , Beijing, China.

Other Publications

2010	Qi, Y., Li, D., Fang, W., et al. "Using Build Forge to Install Tivoli Provisioning Manager". <i>IBM SSPD database</i> , Document ID: TD105637.
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Professional Affiliations

2013–present	American Association of Geographers (AAG)
2013–present	Cartography and Geographic Information Society (CaGIS)

Other Projects

11/2012–12/2012	Using Online Reverse Geocoding Services to Set Wildfire Evacuation Triggers, Primary Developer Description: This project used various kinds of free online reverse geocoding services from different companies or agencies to derive a set of features around the boundary
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	of a wildfire evacuation trigger buffer. Tools: Python, XML, JSON, ArcGIS, ArcPy, Reverse Geocoding APIs
10/2012–11/2012	Twitter Mapping in Hurricane Sandy, Primary Developer Description: This project collected tweets with explicit geographic coordinates within a limited time window in the New Jersey area during and after Hurricane Sandy. The Twitter data collected was imported into ArcGIS and overlaid on a U.S. population map. A basic word count analysis was accomplished for the Twitter datasets. Tools: MySQL, ArcGIS, Python, Natural Language Processing
9/2012–10/2012	Twitter Data Collection System (TDCS), Primary Developer Description: The primary objective of this project was to use Twitter API to collect Twitter data. The geotagged Twitter data (with geographic locations) was collected in real time via the Twitter stream API. The collected data was stored in a local MySQL database simultaneously. Tools: Java, MySQL, Twitter API, JSON
7/2012–10/2012	UTA Bus Tracking System Based on Android, Primary Developer Description: This project used the data provided by Utah Transit Authorities (UTA) for developers to build an Android app that can be used by the public to catch the bus. The location data of the buses can be derived from UTA web services and then mapped via Google Map API. Tools: Android, Java, JSON, Google API
8/2012 –9/2012	Geocoding Automation Based on Web Geocoding Services, Primary Developer Description: This project retrieved geographic coordinates of a large set of addresses in an automatic manner. Baidu geocoding API was utilized to get the geographic coordinates of the addresses. Tools: Java, Excel, XML, Baidu API
9/2010–11/2010	Chinese National Topographic Map Sheet Visualization System, Primary Developer Description: This project visualized the Chinese National Topographic Map Division boundaries. Tools: Visual C#, ArcEngine 9.3, ArcMap 9.3
2/2010–5/2010	Mapping Global Earthquake Risk, Primary Developer Description: This project developed a mapping module for an Earthquake Risk Prediction System. The objective of this module was to generate a global earthquake risk map based on the data from another module. Tools: Visual C#, ArcEngine 9.3
3/2007–6/2007	Vehicle Management System (course project) , Primary Developer Description: In this course project, a management information system (MIS) for vehicle management was designed and developed. Tools: Visual Basic, SQL Server 2000, Visio

Computer Skills

Programming Languages	C/C++, C#, Java, Object-C, R, Python, Perl, HTML, Bash
Linux Skills	RedHat and Ubuntu Linux, Linux system programming
IDEs	Visual Studio, Eclipse, MyEclipse
Database Skills	SQL Server, DB2, MySQL, PostgreSQL & SQL
Software Development Tools	Build Forge, Microsoft Visio, SVN, GitHub, MS Safe Source
Software Development Kits	OpenGL, Qt, VTK, ILOG CPLEX, OpenMP, MPI
Professional Software	ArcGIS, ENVI, EARDAS, FarSite, FlamMap, NetLogo, Repast, GeoDa

Mobile Development

Android, iOS, eMbedded Visual C++

Language Skills

Mandarin (first language), English (fluent), German (functional)