

YU LIU

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SUMMARY

- Young and passionate master student with 4 years of research experience in various fields.
- Proficiency in programming, analytical and quantitative problem solving.
- Quick and independent learner of new skills. Adaptable in fast-paced working environment.

HIGHLIGHTED SKILLS

Programming	C, C++, Java, Python, JavaScript
Data Analysis	R, Matlab, SQL, Hadoop
Spatial Analysis	ArcGIS, Google Maps API, ENVI
Languages	English, Chinese

EDUCATION

University of California, Davis	Expected June 2014
Master of Science, Computer Science	CS GPA: 3.8/4
Master of Science, Civil Engineering	Overall GPA: 3.6/4
Peking University	July 2012
Bachelor of Science, Geographical Information System	Overall GPA: 3.6/4
Bachelor of Arts, Economics	

EXPERIENCE

NextSTEPS program	September 2012 - Present
Graduate Student Researcher	Institute of Transportation, UC Davis
<ul style="list-style-type: none">• Rich experience for big data analysis with Postgresql and Hadoop. Interactive visualization with Javascript (d3.js) and HTML design. Work in a cross-discipline team.• Currently responsible for modeling on power infrastructure transition evaluation with Matlab and R. Frequent communications with advisors and industry peers.	
Geosoft Lab	December 2009 - July 2012
Research Assistant	Institute of RS & GIS, Peking University
<ul style="list-style-type: none">• Conducted research on Human mobility analysis. Responsible for spatial-temporal accessibility assessment with Python and ArcGIS.• Developed a probabilistic model for taxi distribution in Java and Matlab.	

PROJECTS

Social Computing on GitHub

- Apply MySQL and Ruby to extract the relationship between pull requests, commits and issue discussions. Corporate machine learning to discover potential patterns in this "coding" social network.
- Visualization in d3.js and Cytoscape to show the interactions between users and projects.

IEEE 802.11p Evaluation in IVC

- Use OMNeT++ to simulate the inter-vehicle communications and SUMO as a traffic flow generator.
- Under Veins framework, evaluate parameters such as communication density and beacon packets delays in different traffic load scenarios to judge the performance of IEEE 802.11p.