YU LIU

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SUMMARY

- A young and passionate new graduate with 4 years of research experience in various fields.
- Proficiency in programming, analytical and quantitative problem solving.
- A quick and independent learner of new skills and knowledge.

HIGHLIGHTED SKILLS

Programming	C/C++, Java, Python, JavaScript, C#
Data Analysis	R, Matlab, SQL, Hadoop
Spatial Analysis	ArcGIS, Google Maps API, ENVI
Languages	English, Chinese, French (limited proficiency)

EDUCATION

University of California, Davis — Expected June 2014
Master of Science, **Computer Science** — CS GPA: 3.8/4
Master of Science, **Transportation Technology & Policies** — 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

- 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, R and ArcGIS. Frequent communications with advisors and industry peers.
- Awarded with NextSTEPS fellowship.

Geosoft Lab — December 2009 - July 2012
Research Assistant — Institute of RS & GIS, Peking University

- Training in literature reviewing, programming and modeling.
- Conducted research on Human mobility analysis and land use evaluation. Responsible for the traffic flow calculation, spatial-temporal accessibility assessment with Python and ArcGIS.
- Developed a revised recommendation system for taxi distribution Model, with the knowledge of probabilistic analysis.

RELEVANT COURSEWORK

Computer Science	Algorithm, Database, Data Visualization, Social Computing Geometric Modeling, Network, Computer Architecture
Mathematics& Statistics	Computation Statistics, Probabilistic Programming Differencial Equation, Numerical Computing, Econometrics
GIS & Remote Sensing	Designing and Application of GIS, WebGIS Network RS Image Processing, Navigation and Telecommunications