Xiaosu Tong

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**OBJECTIVE**

To secure an internship in data scientist position with a focus on big and complex data analysis, machine learning.

**EDUCATION**

**Purdue University, Department of Statistics, West Lafayette, IN, US August 2012 - Present**

* **Ph.D. in Computational Statistics**

Working in the areas of differential privacy, big and complex data analysis, data visualization, and data mining.

* **Master of Science in Applied Statistics** GPA: 3.81/4.0. **May 2012**

**Shenyang Jianzhu University, School of Science, SHENYANG, CHINA**

* **Bachelor of Science in Information and Calculation Science July 2010**

**SKILL**

* Strong skills in C, R, RHIPE/Hadoop, SAS, Matlab, SPSS, HTML, LINUX operation systems;
* Proficient in data visualization, statistical consulting, experimental design, and data analysis;
* Experience with Vim, Emacs, version control (cvs and svn), Latex.

**RESEARCH EXPPERIENCE**

**Research Assistant, Professor Bowei Xi August 2012 – April 2013**

* Explored three different methods for modifying covariance matrix to solve non positive-definite matrix issue in LDA and QDA classification with sensitivity and differential privacy concepts.
* Formulated the distribution functions of test statistics with differential privacy to investigate the performance of type I and type II error of test using MATLAB.

**Research Assistant, Professor William Cleveland May 2013 – Present**

* Visualized the critical attributes of Kiva dataset in XDATA project. Discovered two most significant anomalies about default loans in Kiva dataset by using RHIPE in R. Conducted a hierarchical cluster analysis to detect repeated borrowers in Kiva by using Divide and Recombine method with MapReduce model.
* Visualized the all data measurement status of NCAR spatial time series data about temperature and precipitation by using RHIPE in R.

**PUBLICATION**

* **R/RHIPE/Hadoop for Divide and Recombine** (Technical Report) **December 2012**

**RELATED EXPPERIENCE**

**Senior Consultant, Statistical Consulting Service, Purdue University May 2011 – August 2013**

* Abstract statistical models from real life research problems in diverse areas to provide assistance to clients with statistics analysis or probability problems and running of a wide variety of statistical computing programs, including SAS, SPSS, and R. Worked with 33 clients totally.

**Teaching Assistant, STAT301, Department of Statistics, Purdue University May 2011 – May 2012**

* Independently instructed the laboratory course ‘Elementary Statistical Methods’.

**Teaching Assistant, STAT695V, Department of Statistics, Purdue University August 2013 – Present**

* Designed all homework assignments for the course, and assisted Prof. William Cleveland with lecture slides of R learning.

**HONORS AND AWARDS**

* **National Scholarship** awarded by Department of Education, Shenyang, China **(**October 2008**)**
* **2nd Prize** in National Mathematical Modeling Contest, Shenyang, China (October 2008)
* **Top 2%** **of class** Scholarship of Shenyang Jianzhu University, Shenyang, China (October 2007)