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, machine learning and data mining;
- Experience with Vim, Emacs, version control (cvs and svn), Latex.

RESEARCH EXPERIENCE

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.
- ➤ Visualized and analyzed large and complex spatial time series data from NCAR about temperature and precipitation by using STL(seasonal trend loess method) with 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)