

# Xiaosu Tong

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## EDUCATION

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**Purdue University, Department of Statistics, West Lafayette, IN, US**

**Ph.D. in Computational Statistics**

**August 2012 – Present**

- Working in the areas of statistical modeling, complex data analysis, data visualization, and data mining.

**Master of Science in Applied Statistics**

**May 2012**

- GPA: 3.81/4.0.

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

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

**July 2010**

## SKILL

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

## RESEARCH EXPERIENCE

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**Research Assistant, Professor Bowei Xi**

**August 2012 – Present**

- Explored three different methods for modifying covariance matrix to solve non positive-definite matrix issue in LDA and QDA classification with sensitivity and differential noise concepts.
- Formulated the distribution functions of test statistics with differential noise 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 within MapReduce model.

## PUBLICATION

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

## RELATED EXPERIENCE

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**Senior Consultant, Statistical Consulting Service, Purdue University**

**May 2011 – August 2013**

- Abstracted 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. Involved in 33 projects 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 professor with lecture slides of R learning.

## HONORS AND AWARDS

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**National Scholarship** awarded by Department of Education, Shenyang, China (October 2008)

**2<sup>nd</sup> Prize** in National Mathematical Modeling Contest, Shenyang, China (October 2008)

**Top 2% of class Scholarship** of Shenyang Jianzhu University, Shenyang, China (October 2007)