

Jianqiang Wang

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Education

Ph.D. in Statistics, Iowa State University, Aug 2003-present (Expected May 2008)

- Advisor: Jean Opsomer
- GPA: 3.96/4.00
- Thesis title: Estimating the distance distribution of subpopulations for large-scale complex surveys

Master in Statistics, Iowa State University, May 2006

- Advisor: Jean Opsomer
- Topic: Cluster Analysis and its Application in the National Resources Inventory (NRI)

B.S. Dept of Management Science, July 2003

- University of Science & Tech of China (USTC), Hefei, Anhui, P.R.China

Research

Interests

- **Survey statistics**
- **Nonparametric methods**
- **Statistical learning**
- **Biostatistics**

Experiences

- Jan 05-present **Research Assistant**, Center for Survey Statistics and Methodology (CSSM)
- Advisor: Jean Opsomer, Professor
 - Partition the NRI data into homogeneous subpopulations and estimate the distribution of distances within each subpopulation
- Jan 07-May 07 **Lab Instructor**, Dept of Statistics. Iowa State University
- Taught lab of an undergraduate level survey sampling course
 - Gave instructions on SAS programming
- May 06-Jul 06 **Summer Intern**, Medical Sci Research Bio-statistics Group, Amgen Inc.
- Supervisor: Cheng Su, Ph.D.
 - Worked on Bayesian calibration and dose-response modeling
- Aug 03-Dec 04 **Teaching Assistant**, Dept of Statistics. Iowa State University
- Graded students' homework assignments for five undergraduate courses including Design of Experiments, Introduction to Business Statistics
- Sep 02-Jan 03 **Research Assistant**, Lab of Finance, USTC
- Applied logistic methods and CART in credit scoring
 - Developed a classification tree with GUI using Visual Basic

Presentations

Conference,

- "Estimating the distance distribution of subpopulations for a large-scale complex survey", Section on Survey Research Methods, Joint Statistical Meetings, Jul 07
- "Cluster Analysis for Outlier Detection and its Application in a Large-scale Survey", Section on Survey Research Methods, Joint Statistical Meetings, Aug 06

Departmental,

- "Tradeoffs between data utility and disclosure risk in public-use microdata files", discussion leader, Survey Working Group, Sep 07
- "Estimating the distance distribution of subpopulations for a large-scale complex survey", Survey VIGRE Working Group, Mar 07
- "Bayesian Calibration and dose-response modeling", Summer intern final presentation, Amgen Inc., Jul 2006
- "Cluster Analysis and its Application in NRI data", Survey VIGRE Working Group, Nov 05
- "Introduction to Line Transect Survey", Survey VIGRE Working Group, Apr 05

Publications and reports

Research papers,

- "Estimating the distance distribution of subpopulations for large-scale complex surveys". With Dr Jean Opsomer, submitted to the Annals of Statistics.
- "A Kolmogorov-Smirnov test in complex surveys". Work in progress.
- "Empirical study on Bayesian method in calibration and modeling dose-response curve". Work in progress.

Technical reports and non-refereed publications,

- Wang, J. and J.D. Opsomer (2007). "Estimating the distance distribution of subpopulations in a complex survey." *Proceedings of the Section on Survey Research Methods, American Statistical Association [CD-ROM]*, Alexandria, VA.
- "Empirical study on estimation and testing elliptically contoured distributions". Multivariate Analysis Theory Class, Dec 2006
- Wang, J. and J.D. Opsomer (2006). "Cluster analysis and its application in the National Resources Inventory." *Proceedings of the Section on Survey Research Methods, American Statistical Association [CD-ROM]*, Alexandria, VA.
- "Empirical study on classification of time series in frequency domain". Time Series Theory Class, May 2006

Honors

Student Travel Award for Joint Statistical Meeting (JSM) 2005, Survey Research Methods Section (SRMS), ASA

Oscar Kempthorne Award, 2004 - Achievement in Master's level coursework

Guo Mo-ruo Fellowship, 2002 - Achievement in overall undergraduate course work in USTC

USTC Excellent Student Scholarship (Grade 1), 2001-2002

USTC Excellent Student Scholarship (Grade 1), 2000-2001

Relevant Coursework

Survey sampling (3 courses), time series analysis (2 courses), multivariate analysis (2 courses), stochastic process, Bayesian statistics, nonparametric statistics, survival analysis (audit)

**Professional
Affiliations**

Member, American Statistical Association (ASA)
Member, Institute of Mathematical Statistics (IMS)

References

Jean D. Opsomer 970-491-3841
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Colorado State University

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