

Yi Chai

CONTACT INFORMATION

Department of Statistics
University of Wisconsin - Madison
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EDUCATION

- University of Wisconsin - Madison, Madison, USA
PhD in **Statistics** in progress since Sep. 2007
- Fudan University, Shanghai, China
B.S. in **Mathematics** completed, Jun. 2005

HONORS AND AWARDS

- The Excellent Graduate of Fudan University, 2005
- The People's Scholarship of Fudan University, 2002-2005

ACADEMIC EXPERIENCE

- **Teaching Assistant** for University of Wisconsin - Madison
Jan. 2008 to Present
Taught various introductory and graduate level statistics courses. Responsible for leading weekly discussion sections, holding office hours, and grading homework and exams.
- **Research Assistant** for Prof. Zhang, Chunming
Summer 2008/2011
Assisted in the research of regularization methods for large dimensional regression, model selection and classification problem, as well as implemented the algorithm in Matlab.

RESEARCH INTEREST

- Variable selection; dimension reduction
- High dimensional data analysis
- Applications in neuroimaging, fMRI, spiketrain data

PUBLICATION

- Chai, Y., Zhang, C.M. (2011), Variable screening in Bregman divergence estimation with NP-dimensionality. *Manuscript*.
- Chai, Y., Zhang, C.M., Zhang, Z., Devilbiss, D. (2011), Analysis of neuronal functional connectivity using penalized GLM models. *Manuscript*.

- Zhang, C.M., Zhang, Z. and **Chai, Y.** (2011), Penalized Bregman divergence estimation via coordinate descent. *Journal of the Iranian Statistical Society*.
- Zhang, C.M., Jiang, Y. and **Chai, Y.** (2010), Penalized Bregman divergence for large-dimensional regression and classification. *Biometrika*, **97**, 551–566.

CONFERENCE ORAL PRESENTATION

- 2011, Joint Statistical Meetings, Miami.
- 2011, Statistics 2011 Canada, Concordia University, Montreal.

CONFERENCE PARTICIPATION

- 2011, Joint Statistical Meetings, Miami Beach, FL.
- 2011, Statistics 2011 Canada, Concordia University, Montreal, QC.
- 2010, “Statistical Science-Making A Difference”, 50th Anniversary Conference, University of Wisconsin - Madison, Madison, WI.
- 2010, 5th International Workshop: Statistical Analysis of Neuronal Data (SAND5), University of Pittsburgh, Pittsburgh, PA.
- 2010, 4th Midwest Statistics Research Colloquium, University of Wisconsin - Madison, Madison, WI.
- 2008, 4th International Workshop: Statistical Analysis of Neuronal Data (SAND4), University of Pittsburgh, Pittsburgh, PA.
- 2008, 2nd Midwest Statistics Research Colloquium, University of Chicago, Chicago, IL

WORK EXPERIENCE

DXSolution Computer Co. LTD.

Datawarehouse Engineer

Shanghai, China

Apr. 2005 to Jun. 2007

Duties include designing and developing data warehousing applications using tools like Informatica, AbInitio, SQL and Perl/shell script in a mixed environment of Windows and Unix/Linux, as well as diagnosing data quality issues, optimizing performance, and on-call support. Played a leading role in the development team, and worked closely with eBay’s global team.

COMPUTER SKILLS

- Statistical Packages: R, Matlab, some experience with SAS.
- Languages: Perl, Unix shell script, extensive use of SQL.
- Applications: \LaTeX , Microsoft Office/Open Office.
- Databases: Teradata, Oracle, MySQL.
- Operating Systems: Windows, Unix/Linux.

REFERENCES

Available upon request.