

Yu, Yue

University of Illinois at Chicago

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Education

- 2009–present **Ph. D. Candidate in Mathematics**, *University of Illinois at Chicago, USA.*
- Concentrate in **Probability and Statistics**, over all **GPA: 4.0/4.0**.
- Adviser: Samad Hedayat.
- Degree Expected Spring 2012.
- 2007–2009 **Master of Science in Mathematics**, *University of Illinois at Chicago, USA.*
- Concentrate in **Probability and Statistics**, over all GPA: 4.0/4.0.
- 2003–2007 **Bachelor of Science**, *Fudan University, China.*
- Major in Mathematics and Applied Mathematics, last two years GPA: 3.4/4.0.
- UNDERGRADUATE THESIS
title *Nonstatistical Methods for Credit Scoring and Its Applications*
description Develop three strategies for credit scoring: linear programming, genetic algorithm and back-propagating neural network and built these models in MATLAB for actual data.

Academic Background

- Statistics General/Generalized Linear Model, Applied Statistical Methods, Probability Theory, Sampling Theory, Survival Analysis, Optimal Design, Multivariate Analysis, Nonparametric Methods,
- Mathematics Calculus, Mathematical Analysis, ODE & PDE, Complex Analysis, Real Analysis, Linear Algebra, Modern Algebra, Topology,
- Computing Programming Language Design, Parallel Computing, Data Mining and Prediction, Scientific Software, Numerical Analysis,

Working Experience

- Jan. 2009 – Dec. 2010 **Research Assistant/Contractor**, *Technology Resources/Statistics, Epidemiology & Surveillance*, Baxter Healthcare Corporation, Round Lake, IL.
- Serve as a contractor for SAS programming and data analysis, full time during summer and half time during the semester schedule.
- Perform data analyzing for R&D animal studies, stability studies, reliability studies, manufacturing quality control studies, clinical studies, and other related activities.

Paper/Projects Working in Progress

- **Dynamic Cluster-based Regularized Sliced Inverse Regression for Forecasting Microeconomics Variables**, with Prof. Jie Yang, Submitted.
- **Partial Sliced Inverse Regression for Quality Relevant Multivariate Statistical Process Monitoring**, Submitted.
- **Assessment of Agreement for Generalized Linear Mixed Models**, with Prof. Hedayat and Dr. Lawrence Lin, Ph.D Thesis.
- **Agreement: An R Package for Assessment of Agreements**, with Dr. Lawrence Lin, Coming soon.

Awards/Scholarships

- 2010–2011 **Chicago Consular Corps Scholarship.**
- 2003–2006 **Basic Science Scholarship**, Fudan University, China.
- Mar, 2007 **Meritorious Winner**, *Interdisciplinary Contest in Modeling*.
- Administered by the Consortium for Mathematics and Its Applications, and sponsored by SIAM, the NSA, and INFORMS.
- Webpage: <http://www.comap.com/undergraduate/contests/icm/>
- Dec, 2005 **Outstanding Award**, *Undergraduate Mathematical Modeling Contest*, China.
- The **1st** in East China.
- Oct, 2002 **Second Prize**, *Chinese Mathematical Olympiad*, China.
- Dec, 2001 **First Prize**, *Chinese Physics Olympiad*, China.

Other Experience

Researching

- 2008 **Statistical Lab**, *UIC*.
- Provide statistical consulting service for faculty, staff and graduate students inside or outside the university.
- Webpage: <http://www.math.uic.edu/~jyang06/statlab/StatLab.html>
- 2007 **Parallel Computing Lab**, *Fudan University*.
- Develop a parallel block reduction method for solving multiscale linear systems, use LAPACK and MPI to build a package to perform the algorithm and evaluate its performance.

Academia

- Oct. 2008 **Fifth Midwest Database Research Symposium**, *Chicago, Illinois*.
- May. 2008 **The 31st Midwest Biopharmaceutical Statistics Workshop**, *Muncie, Indiana*.

Teaching

- 2007–2008 **Teaching Assistant**, *Department of Math, Stat, and CS, UIC*.
- Teach discussion sections for Math 121 – Precalculus.

Computer Skills

OS	Linux/Unix, Windows, MS-DOS	programming	C/C++, SQL, MPI, Python
job-related	SAS/Enterprise Guide, R, Minitab	scientific	Excel, MATLAB, Maple, Lingo

Languages

Mandarin	Native	English	Fluent
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Research Interests

- Dimension Reduction, Data/Text Mining, Generalized Linear Mixed Models, Assessment of Agreement, Design of Experiments and Survey Sampling.