

QUALIFICATIONS SUMMARY

- Fast Learner: Multidisciplinary background in engineering (PhD degree), computer science (undergraduate degree) and statistics (SAS certificated advanced programmer for SAS 9)
- Worked as Data Analyst in Capital One to support the consumer and home equity loan marketing analysis using SAS and SQL
- Took graduate-level statistics and data mining courses; familiar with Six Sigma methods
- Conducted research in statistical data analysis and data-driven design in engineering data.
- Familiar with programming and modeling tools: Teradata, Unix, MySQL, SAS, C++, PHP, Matlab, JMP
- Team worker: coordinated interdepartmental research project; mentored 3 undergraduate and graduate students
- Creative and hardworking: authored or co-authored 7 publications and filed 2 patents.

EDUCATION

- Ph.D. in Materials Science and Engineering, Iowa State University, Aug 2008-Aug 2011
- M.Sci. in Materials Science and Engineering, Iowa State University, Aug 2006-Aug 2008
- B.Eng. and M.Eng. in Materials Science and Engineering, B.Eng. in Computer Science and Technology (dual degree), Xi'an Jiaotong University, China, Sep 1999-Jun 2006

RELEVANT COURSES

Iowa State University

[STAT500](#) Statistical Methods, [STAT501](#) Multivariable Statistical Methods, [STAT531](#) Quality Control and Engineering Statistics, [STAT542](#) Probability Theory, [STAT543](#) Statistical Inference, [IE583](#) Knowledge discovery and data mining, [CS573](#) Machine Learning (audit)

Xi'an Jiaotong University, China

Fundamental of Database Systems, Data Structures and Algorithms, Fundamental of Operating Architecture, Principles of Computer Network

WORK EXPERIENCES

Data Analyst Consultant (Level II)| Consumer and Home Equity Loan Marketing Analysis

Capital One Financial Service, 02/2012 to present

- Worked with business and statistician team to support marketing analysis using SAS
- Created standardized scripts to build data warehouse for analysis purpose using SQL in UNIX environment with Teradata as database
- Built ad hoc report for loan application and operation using Business Objects

Research Assistant | Design and Fabrication of Engineering Materials

Electronic Materials Group, Materials Science and Engineering Department, Iowa State University

08/2008-02/2012

- Designed and fabricated high performance electronic ceramics using high throughput and combinatorial methods
- Used data mining technology to design new materials (recursive partitioning and partial least squares)

Research Assistant | Statistical Analysis of Materials Data and Data-driven Design

Institute of Combinatorial Discovery, Materials Science and Engineering Department, Iowa State University

08/2006-07/2008

- Applied statistical learning and data mining methods to materials design
- Modeled the nonlinear composition-processing-property relationships of steels using recursive partitioning, Principal Component Analysis (PCA), artificial neural network(ANN), and genetic algorithm (GA)
- Used 3-way ANOVA model to analyze data of nanoindentation hardness
- Used statistical software and languages: Matlab, JMP, SAS, R

Research Assistant | Computer Science

Department of Computer Science and Technology, Xi'an Jiaotong University, China, 01/2003-06/2003

- Worked for the dual degree thesis in computer science “A Computer Aided Teaching System for IC Chip” using MySQL, C and PHP

Research Assistant | Mechanical Behaviors of Materials

State Key Laboratory for Mechanical Behavior of Materials, Xi'an Jiaotong University, China, 06/2003-06/2006

- Investigated the physical properties of Cu thin film interconnects

HONORS AND AWARDS

- Peng Kang scholarship for excellent graduate students (First Prize), 2004
- Outstanding graduate student, 2004
- Excellent undergraduate thesis, 2003
- Scholarship for undergraduates, 2000, 2001, 2002