Wei Hu

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QUALIFICATIONS SUMMARY

- Fast Learner: multidisciplinary background in engineering (PhD degree), computer science (undergraduate degree) and statistics (SAS certified advanced programmer for SAS 9)

- Worked as Data Analyst in Capital One to support the marketing analysis in personal and auto loan using SQL and SAS

- 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, IE583 Knowledge discovery and data mining, CS573 Machine Learning (audit), STAT542 Theory of Probability and Statistics I

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 | Consumer Loan Marketing Analysis

Capital One, Bank Consumer Lending, Feb 2012 to present

- Worked with business team to support marketing analysis in personal and auto loan 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-present

- 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