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| Wei Hu | 13264 Weeping Willow Dr, Frisco, TX 75035  Phone: 515-520-1900 Email: huwei95@gmail.com |

**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 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