

## **OBJECTIVE**

To seek a full time position in the areas of predictive modeling, statistical analysis, and SAS programming which challenges my technical skills and creative energy to work independently or cooperatively

## **EDUCATION**

**M.S.** Aug. 2006 – Dec. 2007  
Department of Statistics, Operations, and Management Science  
The University of Tennessee, Knoxville GPA 4.0/4.0

**Ph.D** Aug. 2002 – Aug. 2006  
Department of Materials Science and Engineering  
University of Tennessee, Knoxville GPA 3.8/4.0

**B.S.** Aug. 1996 – Jun. 2000  
Department of Metallurgical Engineering  
University of Science and Technology Beijing, China GPA 89/100

## **CERTIFICATION**

- SAS Certified Base Programmer (SAS 9)
- SAS Certified Advanced Programmer (SAS 9)

## **COMPUTER SKILLS**

- Operating System: Window 98/2000/XP, DOS
- Software: SAS (Base SAS, SAS/STAT, SQL, MACROS), JMP, S-PLUS, SPSS, Microsoft-Office (Word, Excel, PowerPoint), Adobe PhotoShop,
- Engineering Software: ORIGIN (Microcal, Inc): Scientific analysis and graphics program;
- GSAS: Rietveld analysis program for x-ray and neutron diffraction analysis

## **EXPERIENCES**

**Graduate Assistant** Aug. 2006 – Dec. 2007  
Department of Statistics, Operations, and Management Science, UT

- Assisted in teaching two graduate level courses, *Statistical Methods* and *Data Mining*
- Conducted Independent Studies and prepared following statistical publications
  - Ramón V. León, Frank M. Guess, **Kaixiang Tao**, “*Treating Travel Time as Repair Time: What Errors Are Incurred?*”, IEEE Transactions on Reliability, under review.
  - Ramón V. León, Frank M. Guess, **Kaixiang Tao**, “*The Unavailability of a Two-Unit Parallel System with One Traveling Repairperson*”, International Journal of Reliability, Quality and Safety Engineering, under review.

**Graduate Teaching Assistant**

Aug. 2003 – Dec. 2003

Department of Materials Science and Engineering, UT

- Led and supervised conducting of laboratory experiments involving fundamental principles in materials science and engineering such as Differential Scanning Calorimetry, X-ray Diffraction, Mechanical Testing, SEM Analysis etc.

**Graduate Research Assistant**

Aug. 2002 – Aug. 2006

Department of Materials Science and Engineering, UT

Research area:

- In-situ neutron diffraction study of martensitic transformation in 304L stainless steel at a cryogenic temperature
- In-situ neutron diffraction study of martensitic transformation in an ultra-fine-grained Fe-Cr-Ni-Mn steel

**Neutron Scattering Winter School,**

March 3 – 11, 2005

Los Alamos National Laboratory, NM

- Selected to participate in a series of case studies on how scattering methodology contribute insights to disparate problems.

**AWARDS**

- Consecutive four years 1997 – 2000, Baogang Scholarship, Dept. of Metallurgical Engineering, University of Science and Technology Beijing

**PROFESSIONAL AFFILIATION**

- The American Statistical Association

**CONFERENCE PRESENTATIONS**

- **Kaixiang Tao**, Donald W. Brown, Hahn Choo *et al.*, “*Strain-Induced Martensite Formation and its Deformation Behavior at a Cryogenic Temperature*”, 2004 MRS (Materials Research Society) Fall Meeting, Boston, MA, Dec. 2004.
- **Kaixiang Tao**, Donald W. Brown, Sven C. Vogel, Hahn Choo *et al.*, “*Lattice Strain, Phase, and Texture Evolution During Strain-Induced Martensitic Transformation at a Cryogenic Temperature*”, TMS (Minerals, Metals & Materials Society) Spring Meeting, San Francisco, CA, Feb. 2005.

**PUBLICATIONS**

- More than 10 scientific publications in the areas of materials science and statistics

**RELEVANT COURSES**

- Data Mining
- Applied Statistics: Data Management
- Analyzing Categorical Data
- Design of Experiment
- Applied Regression Analysis
- Analysis of Life Data
- Statistical Technique in Industrial Processes (Six Sigma)
- Applied Multivariate Methods
- Financial Management
- Foundations of Accounting