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# YUMIN ZHAO, PHD, M.S.

*Summary of key abilities as a*

## STATISTICIAN / SAS PROGRAMMER / STATISTICAL ANALYST

- ✓ Master Degree of Statistics
- ✓ Expert organizational skills, highly effective assessment and analytical skills, and key strategic planning ability
- ✓ Adept at managing multiple tasks and resolving or minimizing problems by identifying them in their early stages
- ✓ Nurtured positive and productive working relations with customers and office subordinates; interact well under most stressful situations
- ✓ Exhibit high degree of intelligence; quickly take hold of new concepts

### CERTIFICATION

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SAS Base Programming Certification  
SAS Advanced Programming Certification

### TECHNICAL SKILLS

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- SAS (BASE, MACRO, GRAPH, STAT, SQL)
- N QUERY ADVISOR
- MICROSOFT WORD, ACCESS, EXCEL, OUTLOOK, POWERPOINT
- R / S-PLUS (STATISTICAL ALGORITHM)
- C PROGRAMMING
- FORTRAN
- MATLAB

### PROFESSIONAL AFFILIATIONS

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American Statistical Association

### EDUCATION

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*Master Degree of Statistics*; UNIVERSITY OF KENTUCKY May 2007  
*PH.D of Materials Science and Engineering*; UNIVERSITY OF KENTUCKY 2004  
*Master of Minerals Processing*; NORTHEASTERN UNIVERSITY (CHINA) 1991  
*Bachelor of Minerals Processing*; NORTHEASTERN UNIVERSITY (CHINA) 1988

### COURSEWORK

- Statistical Methods
- Theory of Probability
- Statistical Inference
- Multivariate Techniques
- Clinical Trials
- Linear Models and Experimental Design
- Survival Analysis
- Time Series Analysis
- Applied Stochastic Processes
- Nonparametric Inference
- Advanced Experimental Design

### PROFESSIONAL EXPERIENCE

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- Research Associate** • General Internal Medicine, Medical U. of South Carolina 8/2008 to Present
  - Hypertension Initiative Projects
  - Quality analyses of health services
  - Health disparities research
  - Mentor residents, fellows and junior faculty on their research
  - Formulate the statistical analyses sections of proposal, and publish papers for various projects
- Statistical Analyst III** • General Internal Medicine, Medical U. of South Carolina 9/2007 to 8/2008
  - Health Care Outcomes Research, worked on data from Surveillance Epidemiology and End Results
  - Hypertension Initiative Projects
  - Racial/Ethnic Differences in Post-Stroke Mortality in Veterans in the Stroke Belt
  - Mortality of Depression Combined with Diabetes, Stroke, Cancer and Coronary Heart Disease, the National Health and Nutrition Examination Survey (NHANES)
- Contractor Biostatistician** • Abbott Laboratories 6/2007 to 8/2007
  - Work on a clinical trial study: A Phase 3, Open-label Period Followed by a Randomized, Double-blind, Placebo-controlled Study of the Analgesic Efficacy and Safety of Extended-release Hydrocodone/Acetaminophen (Vicodin CR) Compared to Placebo in Subjects with Chronic Low Back Pain
- Statistical Analyst** • Institutional Research, Graduate School, U. of Kentucky 6/2006 to 5/2007

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- Applied SAS Base/Macro/SQL to accomplish institutional research duties. Generated table reports.
  - Annual Statistical Report, Academic Year 2004-2005  
(<http://www.research.uky.edu/gs/GraduateSchoolReports/AnnualStatisticalReport/2004/index.html>)
  - Doctoral Placement Report, Academic Year 2004-2005  
(<http://www.research.uky.edu/gs/GraduateSchoolReports/DoctoralPlacement/DoctoralPlacement0405.pdf>)
  - Graduate Student Productivity Report, 2005  
(<http://www.research.uky.edu/gs/GraduateSchoolReports/GraduateStudentProductivity/GraduateStudentProductivity97-05.pdf>)

**Teaching Assistant** • Department of Statistics, U. of Kentucky 8/2005 to 8/2006

- Conducted lab recitations as a Teaching Assistant
- Taught *Statistical Method* as an instructor

**Research Assistant** • University of Kentucky 1/2000 to 12/2004

- Conducted research on the project funded by the Department of Energy: Fundamental studies of structural factors affecting the formability of continuous cast aluminum alloys
- Reported to the Department of Energy
- Published six journal papers
- Presented twice in the professional conferences

#### POSTERS

- Ellis C, Zhao Y, Egede LE. Racial/Ethnic Differences in Post-Stroke Mortality in Veterans in the Stroke Belt. Presented at Society of General Internal Medicine, April 2008, Pittsburgh, Pennsylvania.

#### PUBLICATIONS

- Yaser Al-Solaiman, Ammar Jesri, Yumin Zhao, Jason D. Morrow, Brent M. Egan, "Low Sodium DASH Reduces Oxidative Stress and Improves Vascular Function in Salt-Sensitive Humans." *Journal of Human Hypertension*, in press.
- Charles Ellis, PhD; Yumin Zhao, MS; Leonard E. Egede, MD, MS, "Racial/Ethnic Differences in Stroke Mortality in Veterans." *Ethnicity and Disease*, vol. 19, 2009, pp. 161-165.
- Y.M. Zhao and J.G. Morris, "Comparison of the texture evolution of DC and CC AA5052 hot bands during isothermal annealing." *Metallurgical and Materials transactions A*, vol34, 2005, pp.2505-2515.
- Wei Wen, Yumin Zhao and J.G. Morris, "The influence of Mg precipitation on the mechanical properties of 5XXX aluminum alloys", *Materials Science and Engineering A*, vol. 392, 2005, pp. 136-144.
- X.F. Yu, Y.M. Zhao, X.Y. Wen and T. Zhai, " A study of mechanical anisotropy continuous cast and direct chill cast AA5182 Al alloys", *Materials Science and Engineering A*, vol. 394, 2005, pp. 376-384.
- Y.M. Zhao, Wei Wen and J.G. Morris, "The differences in particle structures and recrystallization behaviors between DC and CC AA5052 aluminum alloys." *Materials Science and Engineering A*, vol. 373, 2004, pp. 167-174.
- Y.M. Zhao, W.C. Liu and J.G. Morris, "Quantitative analysis of texture evolution for cold rolled DC and CC AA5052 and AA5182 aluminum alloys during isothermal annealing." *Metallurgical and Materials transactions A*, vol. 35, 2004, pp. 3613-3629.
- Y.M. Zhao, W.C. Liu and J.G. Morris, "Comparison of the texture evolution during cold rolling between DC and CC AA5052 aluminum alloys." *Materials Science and Technology*, vol. 19, 2003, pp. 1379-1385.