

Sheng Luo ¹

CONTACT

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EDUCATION

Ph.D. in Biotatistics, [Department of Biostatistics, Johns Hopkins University](#), 2008.
Thesis: "Mixed Effects Stochastic Process Models of Smoking Cessation Behavior."
Thesis advisor: [Ciprian M. Crainiceanu](#). Co-advisor: [Thomas A. Louis](#).

M.S. in Statistics/Mathematics, [Department of Mathematics, University of Texas at Arlington](#), 2003.

M.E. in Mechanical Engineering, [Huazhong University of Science and Technology, China](#), 2003.

B.E. in Mechanical Engineering, [Huazhong University of Science and Technology, China](#), 1996.

HONORS AND AWARDS

1. [Young Investigator Award](#), the American Statistical Association, Statistics in Epidemiology Section, 2007
2. [Fellow Award for Research Excellence](#), the National Institutes of Health (NIH), 2007
3. [Distinguished Student Paper Award](#), the International Biometric Society, Eastern North American Region (ENAR), 2007
4. [Laha Travel Award](#), the Institute of Mathematical Statistics, 2007
5. [Overall first-place winner of the Scientific Poster Competition](#), the Delta Omega Public Health Honor Society, Alpha Chapter, Johns Hopkins Bloomberg School of Public Health, 2007
6. [Louis I. and Thomas D. Dublin Award for the Advancement of Epidemiology and Biostatistics](#), Johns Hopkins Bloomberg School of Public Health, 2007
7. [Cancer Training Research Award](#), the National Cancer Institute, NIH, 2005–2008
8. [Guanghua Scholarship](#), Huazhong University of Science and Technology, China, 1999
9. [Good Academic Graduate Student Award \(top 5%\)](#), Huazhong University of Science and Technology, China, 1999
10. [IBM-Certified Specialist in AIX V4.1 System Administration](#), 1999
11. [Certification as a Computer Software Programmer](#), 1999

¹Last updated June 12, 2009

PROFESSIONAL EXPERIENCE

Assistant Professor, [Division of Biostatistics, School of Public Health](#), July 2008-Present

Predoctoral fellow and statistical consultant, Biostatistics Branch, Division of Cancer Epidemiology and Genetics, National Cancer Institute, National Institutes of Health, 2005-2008, Mentor: [Dr. Nilanjan Chatterjee](#)

Research assistant, Department of Molecular Microbiology and Immunology, Johns Hopkins University, 2004-2005

Research assistant, Department of Environmental Health Sciences, Johns Hopkins University, 2004-2005

Research assistant, Department of Mathematics, University of Texas at Arlington, 2000-2003

TEACHING EXPERIENCE

Course Instructor, Division of Biostatistics, University of Texas Health Science Center at Houston:

Statistical Computing, Spring 2009, enrollment: 6, auditing student: 2

Teaching Assistant, Department of Biostatistics, Johns Hopkins University:

Advanced Statistical Theory I and II, 1st and 2nd terms, 2007-2008 academic year

Statistical Methods in Public Health I – IV, 2006-2007 academic year

Multilevel Statistical Models in Public Health, 4th term, 2006-2007 academic year

Survival Analysis, 3rd term, 2006-2007 academic year

Quantitative Methods in Public Health II and III, 1st and 2nd terms, 2006-2007 academic year

Statistical Reasoning in Public Health I and II, 3rd and 4th terms, 2005-2006 academic year

Statistics for Laboratory Scientists I and II, 1st and 2nd terms, 2005-2006 academic year

Course Instructor, Department of Mathematics, University of Texas at Arlington, 2002-2003:

Fully designed and independently taught several undergraduate level courses (e.g. Trigonometry, College Algebra). Duties included lecturing 3 hours per week, holding office hours, conducting discussion sections, preparing handouts, grading homework and organizing review sessions.

PUBLICATIONS

Articles, published, in press, or accepted

Statistical methodology papers

1. **Luo, S.**, Crainiceanu, C. M., Louis, T. A., Chatterjee, N., Analysis of Smoking Cessation Patterns Using a Stochastic Mixed-Effects Model with a Latent Cured State. *Journal of The American Statistical Association*, 103:1002-13(12) 2008.
2. **Luo, S.**, Crainiceanu, C. M., Louis, T. A., Chatterjee, N., Bayesian Inference for Smoking Cessation with a Latent Cure State. [Published Online: Jan 23 2009](#), *Biometrics*, DOI: 10.1111/j.1541-0420.2008.01167.x.
3. **Luo, S.**, Mukherjee, B., Chen, J., Chatterjee, N., Shrinkage Estimation for Robust and Efficient Screening of Single SNP Association from Case-Control Genome-wide Association Studies, *Genetic Epidemiology*, 32: 1-11, 2009, DOI: 10.1002/gepi.20428
4. Chatterjee, N., Chen, Y. H., **Luo, S.**, Carroll, R. J., Analysis of case-control association study: SNPs, Imputation and Haplotypes, accepted by *Statistical Science*.

Collaborative Papers

1. Anderson, W. F., **Luo, S.**, et al Human Epidermal Growth Factor Receptor-2 and Estrogen Receptor Expression, a Demonstration Project Using the Residual Tissue Repository of the Surveillance, Epidemiology, and End Results (SEER) program. In press, *Breast Cancer Research and Treatment*, Feb 7, 2008.

Non-Peer Reviewed Articles

1. **Luo, S.**, Deng, S., Liu, C., A Multigrid Method for 2-D Magnetoaerodynamic (MGD) Flow Control Analysis. *42nd AIAA Aerospace Sciences Meeting and Exhibit Conference*, AIAA Paper, AIAA-2004-0222, Reno, NV, January 2004
2. **Luo, S.**, Liu, C., A Multigrid Method for Elliptic Grid Generation Using Finite Volume Method. *Third Air Force Office of Scientific Research (AFOSR) International Conference on DNS/LES*, University of Texas at Arlington, August 2001.

Manuscripts in Preparation

1. **Luo, S.**, Crainiceanu, C. M., Louis, T. A., Chatterjee, N., A Joint Model for Longitudinal and Stochastic Process Data with a Latent Cured State.

PRESENTATIONS

1. Analysis of Smoking Cessation Patterns Using a Stochastic Mixed Effects Model with a Latent Cured State, *Joint Statistical Meetings (JSM)*, August 2007
2. Analysis of Smoking Cessation Patterns Using a Stochastic Mixed Effects Model with a Latent Cured State, *National Cancer Institute*, June 19, 2007
3. Analysis of Smoking Cessation Patterns Using a Stochastic Mixed Effects Model with a Latent Cured State, *Probability and Statistics Day 2007, University of Maryland, Baltimore County*, April 28, 2007
4. Analysis of Smoking Cessation Patterns Using a Stochastic Mixed Effects Model with a Latent Cured State, *The Eastern North American Region of the International Biometric Society Spring Meeting*, March 2007
5. Modeling Individual Addiction Behavior Using a Mixed-Effect Model with Three States, *Joint Statistical Meetings (JSM)*, August 2006

COMPUTING SKILLS

Programming Languages: C/C++, Perl, Latex, HTML, MySQL, Fortran, Pascal, Visual Basic

Mathematical/Statistical Packages: R/Splus, SAS, WinBUGS, STATA, GAUSS, Mathematica

Operating Systems: Unix/Linux, Windows, AIX

PROFESSIONAL MEMBERSHIPS

American Statistical Association (ASA)

International Biometric Society (ENAR)

Institute of Mathematical Statistics (IMS)

AREA OF RESEARCH INTERESTS

Survival and longitudinal analysis, genetic epidemiology, functional data analysis, nonparametric methods, mixed-effects modeling, and Bayesian analysis