

# Ling Lan

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## Education

<b>Ph.D. Candidate in Biostatistics</b>	University of Louisville, Louisville, KY. CGPA: 3.84/4.0 <i>Thesis: Nonparametric inference for multi-state models</i> <i>Thesis Advisor: Dr. Somnath Datta</i>	2005-08/2008
<b>M. S. P. H. in Biostatistics</b>	University of Louisville, Louisville, KY	2003-2005
<b>Bachelor of Medicine</b>	Nanjing Medical University, Nanjing, China	1992-1997

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## Experiences

- 2007 – present    **Editorial Assistant** (Support Editor-in-Chief)  
Statistics and Probability Letters
- Communicated with Associate Editors, reviewers and authors; provided instructions on how to use the EES system and maintained the manuscripts assignments
- 2006 – present    **Research Assistant** (work with Prof. Somnath Datta)  
Dept. of Bioinformatics & Biostatistics, University of Louisville, KY
- Participated in methodological and computational aspects of research supported by National Security Agency Grant (PI. S. Datta, Fall 2006)
  - Participated in methodological and computational aspects of research supported by National Science Foundation Grant (PI. S. Datta, Spring 2007 - present)
- 2006 – 2007        **Statistical Consultant**  
Statistical Consulting Center, Dept. of Bioinformatics & Biostatistics, University of Louisville
- Advised medical researchers on statistical design and analysis of various researches
- 2005 – 2006        **Graduate Assistant**  
Dept. of Bioinformatics & Biostatistics, University of Louisville, KY
- Prepared SAS code, R codes and lecture notes for master students in *Survival Analysis I* and *Advanced Statistical Computing I*
  - Tutored several Physicians in MSPH program in *Introduction to Biostatistics I*
- 2004 – 2005        **Research Assistant**  
Dept. of Environmental and Occupational Health Sciences & Dept. of Epidemiology and Population Health, University of Louisville, KY
- Collaborative research with Prof. Timothy E. Aldrich on evaluating the environmental risk factors for Paducah nuclear plant workers (NOISH Grant)
  - Performed data analysis and relative survival analysis on Kentucky brain cancer data as an illustration for the above project
- 2003 – 2004        **Research Assistant**  
Dept. of Bioinformatics & Biostatistics, University of Louisville, KY
- Worked with Dr. Tonya M. Smoot on *the pregnancy smoking secession program in Louisville* project, a community based behavioral trial
- 1997 – 2003        **Resident in Pediatrics (MD)**  
Department of Pediatrics, Daqing Longnan Hospital, China
- Independent clinical practice in ICU and in-patient and out-patient divisions and supervise interns and junior residents

## Research Interests

Multivariate survival analysis: nonparametric inference on multistate models  
 Clinical trial: group sequential design

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## Technical skills

General skills in Biostatistics and computing with specific expertise and interests in:

- Biostatistics: survival analysis: nonparametric tools for analyzing event-time data (specifically developing novel inference for interval censored time-to-event data with multistate model), clinical trials, categorical data analysis, longitudinal data analysis, linear models, GEE, decision analysis and Bioinformatics (microarray)
  - Computing platforms: UNIX, little LINUX, Windows 2000/XP
  - Programming languages: SAS, S
  - Statistical software: extensive use of R/S-Plus, proficient in SAS, SPSS, EAST, TreeAge and little WinBUGS
  - Text formatting and office computing: LaTeX, MS Word, Word Perfect, MS Excel, PowerPoint, EXP.
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## Publications

**Lan, L.** and Datta, S. (2008) Nonparametric estimation of state occupation, entry and exit times with multistate current status data. *Statistical Methods in Medical Research* (In Press)

Datta, S. **Lan, L.** and Sundaram, R. (2008) Nonparametric estimation of waiting time distributions in a Markov model based on current status data. *Biostatistics* (Submitted)

Xu, P., **Lan, L.** and McCabe, S. (2007) Decision modeling in the management of a flexor sheath ganglion. *Hand* (Published online, DOI: 10.1007/s11552-007-9060-4)

Aldrich, T. E., Freitas, S., **Lan, L.** and McKinney, W. P. (2005) Brain Cancer Survival in Kentucky: 1996-2000. *Journal of the Kentucky Medical Association* (Accepted in 2008)

**Lan, L.** and Datta, S. Nonparametric comparisons of waiting time distributions in a Markov system (In preparation)

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## Presentations

Contributed talk on “*Nonparametric comparisons of state waiting time distributions in a Markov system*” at Joint Statistical Meetings (JSM) in Denver, CO, August 2008

Invited talk on “*Nonparametric comparisons of waiting time distributions in a Markov system*” at international conference on Interdisciplinary Mathematical & Statistical Techniques (IMST) in Memphis, TN, May 2008

Contributed talk on “*Nonparametric estimation of state occupation, entry and exit times with multistate current status data*” at ENAR in Arlington, VA, March 2008

Invited talk on “*Nonparametric estimation of state occupation, entry and exit times with multistate current status data*” at Department Seminar in University of Louisville, Louisville, KY, March 2008

Poster presentation on “*Nonparametric estimation of state occupation, entry and exit times with multistate current status data*” at Brown Cancer Center Annual Retreat in Louisville, KY, November 2007

Contributed talk on “*Nonparametric estimation of state occupation, entry and exit times with multistate current status data*” at Joint Statistical Meetings (JSM) in Salt Lake City, Utah, August 2007

Invited talk on “*Paducah Databases - primary analysis*” at Cincinnati site visit for the NIOSH Grant in the University of Cincinnati, November 2005

Invited talk on “*Make Yours a Fresh Start Family - Report for the Pregnancy Smoking Secession Program in Louisville*” at Graduate Student Seminar in University of Louisville, Louisville, KY, October 2003

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## Professional Membership

American Statistical Association (ASA)

Eastern North American Region of International Biometric Society (ENAR/IMS)

Golden Key International Honor Society