

Curriculum Vitae

Wenbin Lu, Ph.D.
Department of Statistics
North Carolina State University
210E Patterson Hall
2501 Founder's Drive
Raleigh, NC 27695

Office: (919) 515-1915
Fax: (919) 515-1169
Email: lu@stat.ncsu.edu
Webpage: <http://www4.stat.ncsu.edu/~lu/>

Education

May, 2003	Columbia University, New York, NY	Ph.D. in Statistics Dissertation: Semiparametric cure models and related topics. Advisor: Professor Zhiliang Ying
May, 2001	Columbia University, New York, NY	M.A. in Statistics
July, 1999	Peking University, Beijing, China	B.S. in Mathematics

Work Experience

2003 – Present Assistant Professor Department of Statistics, North Carolina State University

Research Interests

1. Statistical methods in clinical trials
2. Survival analysis
3. Longitudinal data analysis
4. Semiparametric inference
5. Statistical genetics
6. Causal Inference

Publications and Technical Reports

Publications:

- Yu Liang, **Wenbin Lu** and Zhiliang Ying (2008), Joint Modeling and Analysis of Longitudinal Data with Informative Observation Times. Accepted by Biometrics.
- **Wenbin Lu** and Lexin Li (2008), Boosting Method for Nonlinear Transformation Models with Censored Survival Data. Biostatistics, in press.

- Lexin Li and **Wenbin Lu** (2008), Sufficient Dimension Reduction with Missing Predictors. Journal of the American Statistical Association, in press.
- Mengling Liu, **Wenbin Lu** and Yongzhao Shao (2008), [A Monte Carlo Approach for Change-point Detection in the Cox Proportional Hazards Model](#). Statistics in Medicine, in press.
- **Wenbin Lu** and Limin Peng (2008), [Semiparametric Analysis of Mixture Regression Models with Competing Risks Data](#). (supplementary material for technical proof). Lifetime Data Analysis, in press.
- **Wenbin Lu** (2008), [Nonparametric maximum likelihood estimation in the proportional hazards cure model](#). Annals of the Institute of Statistical Mathematics, in press.
- **Wenbin Lu** and Yu Liang (2008), [Analysis of Competing Risks Data with Missing Cause of Failure under Additive Hazards Model](#). Statistica Sinica, 19, 219-234.
- **Wenbin Lu** and Hao (Helen) Zhang (2007), [Variable Selection for Proportional Odds Model](#). Statistics in Medicine, 26, 3771-3781.
- **Wenbin Lu** (2007), [Tests of Independence for Censored Bivariate Failure Time Data](#). Lifetime Data Analysis, 13, 75-90.
- Hao Helen Zhang and **Wenbin Lu** (2007), [Adaptive-LASSO for Cox's Proportional Hazards Model](#). Biometrika, 94, 1-13.
- Mengling Liu, **Wenbin Lu** and Yongzhao Shao (2006), [Mixture cure model with an application to interval mapping of quantitative trait loci](#), Lifetime Data Analysis, 12, 421-440.
- Mengling Liu, **Wenbin Lu** and Yongzhao Shao (2006), [Interval Mapping of Quantitative Trait Loci for Time-to-Event Data with the Proportional Hazards Mixture Cure Model](#), Biometrics, 62, 1053-1061.
- **Wenbin Lu** and Anastasios Tsiatis (2006), [Semiparametric transformation models for case-cohort Study](#), Biometrika, 93, 207-214.

- **Wenbin Lu** and Yu Liang (2006), [Empirical likelihood inference for linear transformation models](#), J. Multivariate Analysis, 97, 1586-1599.
- **Wenbin Lu** (2005), [Marginal Regression of Multivariate Event Times Based on Linear Transformation Models](#), Lifetime Data Analysis, 11, 389-404.
- **Wenbin Lu** and Zhiliang Ying (2004), [On semiparametric transformation cure models](#), Biometrika, 91, 331-343.

Technical Reports:

- Lexin Li and **Wenbin Lu** (2008), Sufficient Dimension Reduction for Censored Regression. (to be submitted).
- Mengling Liu, **Wenbin Lu**, Chi-hong Tseng (2008), Cox Regression in Nested Case-Control Studies with Auxiliary Covariates. (to be submitted)
- **Wenbin Lu** (2008), Efficient Estimation for Accelerated Failure Time Model with A Cure Fraction. (submitted)
- Mengling Liu, **Wenbin Lu**, Daowen Zhang, Jessica Salas, Debra A. Keegan and James A. Grifo (2008), Joint Modeling of a Primary Outcome with Longitudinal Covariates under Possibly Informative Measuring Pattern: A Case Study Of Pregnancy After In-Vitro Fertilization (technical report).
- **Wenbin Lu** and Hao (Helen) Zhang (2007), On Estimation of Partially Linear Transformation Models. (under revision)
- Hao (Helen) Zhang, **Wenbin Lu** and Hansen Wang (2007), Penalized Estimating Equations for Linear Transformation Model Selection. (submitted)
- Mengling Liu and **Wenbin Lu** (2007), Semiparametric Marginalised Model for Longitudinal Data with Nonignorable Dropout. (submitted)
- **Wenbin Lu** and Hao (Helen) Zhang (2006), [Variable Selection via Penalized Likelihood with Adaptive Penalty](#). (technical report)

- **Wenbin Lu**, Steven Wang and Zhiliang Ying (2004), [Efficiency comparison between mean and log-rank tests with recurrent event time data](#). (technical report)

Invited Talks and Conference Presentations

- April 2008, Emory University, Department of Biostatistics, "Semiparametric Marginalized Model for Longitudinal Data with Nonignorable Dropout" (invited)
- March 2008, Division of Epidemiology, Statistics, Prevention Research, National Institute of Children and Health Development, NIH, "A Unified Variable Selection Method for Censored Survival Data" (invited)
- February 2008, University of Virginia, Statistics Department, "Estimation and Inference for Partial Linear Transformation Models with Censored Survival Data" (invited)
- December 2007, Iowa State University, Statistics Department, "Estimation and Inference for Partial Linear Transformation Models with Censored Survival Data" (invited)
- November 2007, NYU Medical School, Department of Environmental Medicine, "Transformation Models for Case-Cohort and Nested Case-Control Studies" (invited)
- October 2007, Nonparametric Conferences, Columbia, SC, "Partial Linear Transformation Models For Survival Data" (invited)
- August 2007, JSM Meeting, Salt Lake City, UT, "Variable Selection for Censored Survival Data" (topic contributed)
- June 2007, ICSA Applied Statistics Symposium, Raleigh, NC, "Partial Linear Transformation Models For Survival Data" (invited)
- March 2007, ENAR Meeting, Atlanta, GA, "Semiparametric Analysis of Mixture Regression Models with Competing Risks Data" (contributed)
- August 2006, JSM Meeting, Seattle, WA, "Adaptive-Lasso for Cox's Proportional Hazards Model" (topic contributed)
- Fall 2005, NCSU, Statistics Department, "Mapping Quantitative Trait Loci with Time-to-Event Data from a Population of Mixed Susceptibility" (faculty sampler)
- Fall 2005, NCSU, Bioinformatics Research Center, "Interval Mapping of Quantitative Trait Loci for Time-to-Event Trait with the Mixture Cure Model" (invited)
- August 2005, JSM Meeting, Minneapolis, MN, "Marginal Regression of Multivariate Event Based on Linear Transformation Models" (contributed)
- March 2005, ENAR Meeting, Austin, TX, "Semiparametric transformation models for the case-cohort study" (contributed)
- Fall 2004, NCSU, Statistics Department, "Semiparametric transformation models for the case-cohort study" (faculty sampler)
- August 2004, JSM Meeting, Toronto, Canada, "Semiparametric Transformation Cure Models" (contributed)

- March 2004, ENAR Meeting, Pittsburgh, PA, "On Semiparametric Transformation Cure Models" (contributed)
- February 2004, UNC-Chapel Hill, Biostatistics Department, "On Semiparametric Transformation Cure Models" (invited)
- August 2002, JSM Meeting, New York, NY, "Efficiency Comparison between Mean and Log-Rank Tests with Recurrent Event Times" (contributed)
- March 2002, ENAR Meeting, Arlington, VA, "Efficiency Comparison between Mean and Log-Rank Tests with Recurrent Event Times" (contributed)

Professional Services

- Journal Activities: Refereed for *Biometrika*, *Journal of American Statistical Association*, *Journal of Royal Statistical Society Series B*, *Biometrics*, *Lifetime Data Analysis*, *Journal of Computational and Graphical Statistics*, *Annals of the Institute of Statistical Mathematics*, *Statistica Sinica* and others.
- Faculty Fellow, SAMSI, in the program "Risk Analysis, Extreme Events and Decision Theory" (2007-2008).

Professional Societies

Member of American Statistical Association
 Member of Institute of Mathematical Statistics
 Member of International Biometrics Society (ENAR)
 Member of International Chinese Statistical Association

Honors and Awards

Faculty Fellowship, Columbia University (1999 – 2003)

Grants

1. FRPD fund award, North Carolina State University, 3/1/2004 – 2/28/2005
2. NSF grant award (DMS-0504269), 7/1/2005 – 6/30/2008.

Teaching Experience

Analysis of Survival data (Spring 2006, 2007, 2008), NCSU
 Statistical Inference I (Fall 2006, 2007), NCSU
 Probability and Statistics for Engineers (Fall 2003, 2004, 2005; Spring 2004, 2005), NCSU
 Introduction to Statistics (Spring 2002), Columbia University

Students Mentoring

Graduated Ph.D. Students: Miao Yu (August 2007, joint with D. Zhang)

Current Ph.D. Students: Justin Shows (joint with H. Zhang)
Elizabeth Nelson (joint with S. Ghosh)
Mihye Ahn (joint with H. Zhang)
Caroline Seabrook (joint with L. Li)