

# CURRICULUM VITAE

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## Education

- 2005 – present    Ph.D. Candidate in Biostatistics, Johns Hopkins University  
                          Ph.D. expected in June 2010  
                          Advisor: Prof. Mei-Cheng Wang  
                          Dissertation: *Statistical methods for bivariate survival data with interval sampling*
- 2001 – 2005        B.Sc. in Statistics, University of Science and Technology of China

## Honors and Awards

- 2010                ASA Statistics in Epidemiology Section's Young Investigator Award
- 2010                ENAR Distinguished Student Paper Award
- 2009                ASA Statistics in Epidemiology Section's Student Paper Award
- 2009                ICSA Jian-Ping Hsu Memorial Scholarship and Student Paper Award
- 2009                ASA SRCOS R. L. Anderson Poster Award
- 2009                ASA SRCOS Boyd Harshbarger Graduate Student and Junior Faculty Travel Award
- 2009                Delta Omega Poster Competition Biostatistics Best Poster, Johns Hopkins University
- 2005 – 2009        Departmental Scholarship, Department of Biostatistics, Johns Hopkins University
- 2001 – 2005        Outstanding Student Award, University of Science and Technology of China
- 2004                Guo Moruo Award, University of Science and Technology of China

## Research Experience

- 2009 – present    RA, Research in investigating frailty, its etiology and treatment for older adults.  
*with Dr. Karen Bandeen-Roche, Center on Aging and Health, JHMI*
- 2008 – 2009        RA, Epidemiologic research in Atherosclerosis Risk in Communities (ARIC) Study and  
National Health and Nutrition Examination Survey (NHANES).  
*with Dr. Elizabeth Selvin, Welch Center for Prevention Epidemiology and Clinical Research, JHMI*
- 2007 – 2008        RA, Epidemiologic study of extramedical analgesic use.  
*with Dr. Silvia Martins, Department of Mental Health, JHSPH*
- 2006 – 2007        RA, Research in HIV/AIDS Prevention at Rakai Health Sciences Program.  
*with Dr. Ronald Gray, Department of Population, Family and Reproductive Health, JHSPH*

## Teaching Experience

- 2008 – present    Biostatistics Consultant, Department of Health Policy and Management, JHSPH  
Helped address biostatistics issues arising in HPM doctoral dissertations
- 2007 – 2008        TA, Statistical Methods in Public Health I-IV, JHSPH  
Conducted Stata Lab, held office hours and graded homeworks and exams
- 2006 – 2007        TA, Methods in Biostatistics I-IV, JHSPH  
Conducted biweekly labs, held office hours and graded homeworks

## Papers and Publications

1. **Zhu H** and Wang M-C (2009). Analyzing bivariate survival data with interval sampling and application to cancer epidemiology. Submitted to *Biometrics*.  
\* **An earlier version won the 2009 ASA Statistics in Epidemiology Section's Student Paper Award and ICSA Jian-Ping Hsu Memorial Scholarship.**
2. **Zhu H** and Wang M-C (2010). Incorporating sampling bias in analyzing bivariate survival data with interval sampling and application to HIV research. In preparation for submission to *Biometrics*.  
\* **An earlier version won the 2010 ENAR Distinguished Student Paper Award.**
3. **Zhu H** and Wang M-C (2010). Time-dependent ROC curves analysis for survival data with complicated structures. In preparation.
4. Selvin E, Steffes M, **Zhu H**, Matsushita K, Wagenknecht L, Pankow J, Coresh J and Brancati F (2010). Hemoglobin A1c, Diabetes and Cardiovascular Risk in Nondiabetic Adults. *The New England Journal of Medicine* 362:800-811.
5. Selvin E, Coresh J, **Zhu H**, Folsom A and Steffes M (2010). Measurement of HbA1c from Stored Whole Blood Samples in the Atherosclerosis Risk in Communities Study. *Journal of Diabetes* 2:118-124.
6. Selvin E, **Zhu H** and Brancati F (2009). Elevated hemoglobin A1c in adults without a history of Diabetes in the US. *Diabetes Care* 32:828-833.
7. Martins SS, Keyes KM, Storr CL, **Zhu H** and Grucza RA (2010). Birth cohort trends in lifetime and past-year prescription opioid use disorder due to nonmedical use: results from two national surveys. *Journal of Studies on Alcohol and Drugs* 71(4):480-487.
8. Martins SS, Keyes KM, Storr CL, **Zhu H** and Chilcoat HD (2009). Pathways between nonmedical opioid use/dependence and psychiatric disorders: results from the National Epidemiologic Survey on Alcohol and Related Conditions. *Drug and Alcohol Dependence* 103(1-2):16-24.
9. Martins SS, Storr CL, **Zhu H** and Chilcoat HD (2009). Correlates of extramedical use of OxyContin versus other analgesic opioids among the US general population. *Drug and Alcohol Dependence* 99(1-3):58-67.

## Presentations and Posters

1. Network models for studying frailty as a complex dynamical system. *Johns Hopkins Bayview Medical Center Research on Aging Poster Competition*. Johns Hopkins University. Baltimore MD, May 2010.  
\* **1st place award winner**
2. Incorporating sampling bias in analyzing bivariate survival data with interval sampling and application to HIV research. *ENAR Spring Meetings*. New Orleans LA, March 2010.
3. Statistical methods for bivariate survival data with interval sampling and applications to biomedical studies. **Invited talk**, *Survival, Longitudinal And Multivariate Data Working Group*. Johns Hopkins University. Baltimore MD, March 2010.
4. Statistical methods for bivariate survival data with interval sampling and applications to biomedical studies. **Invited talk**, *Department of Biostatistics and Computational Biology*. Dana-Farber Cancer Institute. Boston MA, March 2010.
5. Statistical methods for bivariate survival data with interval sampling and applications to biomedical studies. **Invited talk**, *Division of Biostatistics*. The Ohio State University. Columbus OH, February 2010.
6. Analyzing bivariate survival data with interval sampling and application to cancer epidemiology. *Joint Statistical Meetings*. Washington D.C., August 2009.
7. Statistical methods for interval-sampled bivariate survival data. *ICSA Applied Statistics Symposium*. San Francisco CA, June 2009.
8. Nonparametric and semiparametric estimations for bivariate survival data with interval sampling. *SRCOS Summer Research Conference*. Jekyll Island GA, June 2009.  
\* **R. L. Anderson poster award winner**
9. Understanding Progression of ovarian cancer in the US from SEER Data: A Semiparametric joint model for bivariate survival distribution with interval sampling. *Johns Hopkins Bloomberg School of Public Health Delta Omega Poster Competition*. Baltimore MD, March 2009.  
\* **Biostatistics best poster winner**
10. Nonparametric and semiparametric estimations for bivariate survival data with interval sampling. *ENAR Spring Meetings*. San Antonio TX, March 2009.

## Areas of Research Interest

Multivariate survival analysis  
 Nonparametric and semiparametric inference  
 Biased sampling problems  
 Evaluation of predictive model  
 High dimensional data analysis  
 Clinical and epidemiologic studies  
 Cancer and HIV/AIDS research  
 Genetic epidemiology

## **Skills**

Programming Languages: R/Splus, STATA, SAS

Computer Applications: Microsoft Office, Mathematica, LaTeX

Operating Systems: Macintosh, Windows

Languages: English, Chinese-Mandarin

## **Professional Societies**

American Statistical Association

International Biometric Society (ENAR)

Institute of Mathematical Statistics

International Chinese Statistical Association

American Public Health Association

## **Service**

2008 – 2009 Webmaster, Survival, Longitudinal And Multivariate Data Working Group (SLAM),  
Department of Biostatistics, JHSPH

2007 – 2008 Co-coordinator, Student Journal Club, Department of Biostatistics, JHSPH

2007 – 2009 Activity Chair, Johns Hopkins University Chinese Students and Scholars Association

## References

**Mei-Cheng Wang**, Professor (*Advisor*)

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**Karen Bandeen-Roche**, Frank Hurley and Catharine Dorrier Professor and Chair

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**Elizabeth Selvin**, Assistant Professor

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