

You Wu

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EDUCATION:

- **Ph.D. Candidate, Biostatistics** **August 2013 – present**
*Department of Bioinformatics and Biostatistics,
University of Louisville, Louisville, KY, USA*
GPA: 3.89
Expected Graduation: June 2017
- **Master of Sciences, Statistics** **September 2011 – April 2013**
*Department of Mathematical Sciences,
University of Cincinnati, Cincinnati, Ohio, USA*
GPA: 3.45
- **Bachelor of Economics, Statistics** **September 2007 – June 2011**
Industrial and Commercial College of Hebei University, China
Grades: Rank 1st in class

RESEARCH EXPERIENCE

- **Ph.D. Dissertation Projects**
 - Developed statistical method for profiling the effects of short time-course cold ischemia on tumor protein phosphorylation using a Bayesian approach.
 - Developed a hierarchical Bayesian model to characterize the trajectory of phosphorylation abundance changes based on short time-course data. Two novel estimators are proposed to estimate and classify the trajectory of phosphorylation abundance.
 - Examine the potential risk factors related to metabolic syndrome, pre-diabetes and diabetes using the National Health and Nutrition Examination Survey (NHANES) data 2011-2014.
 - Examined the potential risk factors related to metabolic syndrome, pre-diabetes and diabetes using principal component analysis and path analysis along with the NHANES data.
 - Developed statistical methods for causal inference when outcome is ordinal variable
 - Developed statistical methods to estimate treatment effect based on observational data when the outcome variable is ordinal. These methods focus on making causal inference while control the effect from confounders based on propensity score technique, matching, and inverse probability weighting and Kolmogorov–Smirnov test.
- **Research Assistant Projects**
 - Data Analysis for the NIH funded study of “REVIVE” (Role of EPCs and Vascular Progenitors In Vascular Endothelial Health)
 - Performed analysis for a case-control study to examine the association between diabetic status and stem cell counts. Jointly worked with Dr. Maiying Kong, Department of Bioinformatics and Biostatistics, University of Louisville. (PI: Aruni Bhatnagar, Ph.D., Department of Medicine, University of Louisville.)

- Data Analysis for the NIH funded “CAESAR” study (i.e., Consortium for preclinical AssESment of CARdioprotective therapies)
 - Carried out all statistical analysis for the experimental data resulted from the “CAESAR” study, and drafted statistical reports. Jointly worked with Dr. Maiying Kong, Department of Bioinformatics and Biostatistics, University of Louisville. (PI: Roberto Bolli, M.D., Department of Medicine, University of Louisville.)
- Data Analysis for the General Electric (GE) Industrial Athlete Program
 - Analyzed the experimental data from the GE Industrial Athlete Program to assess whether the Athlete Program improved the health and safety of the workers. This work is a collaborative design between General Electric and the University of Louisville School of Public Health and Information Sciences. Jointly worked with Dr. Maiying Kong, Department of Bioinformatics and Biostatistics, University of Louisville.
- Data Analysis for the spinal cord injury project
 - Consulted with the analysis of the longitudinal data of spinal cord contusion for the rhesus macaque monkey using mixed effect model. Jointly worked with Dr. Maiying Kong, Department of Bioinformatics and Biostatistics, University of Louisville and Christopher B. Shields, M.D., Norton Neuroscience Institute, Norton Healthcare, Louisville, Kentucky.

PUBLICATIONS

- Wu, Y., Gaskins, J., Kong, M. and Datta, S. Profiling the Effects of Short Time-course Cold Ischemia on Tumor Protein Phosphorylation using a Bayesian Approach. *Biometrics*. (In revision)
- Wu, Y., Little, B., Datta, S. and Kong, M. Risk factors for metabolic syndrome, pre-diabetes and diabetes using NHANES 2011-2014. (In process)
- Wu, Y., Datta, S. and Kong, M. Causal inference of multinomial outcomes. (In process)

PRESENTATIONS

- ASA-KY Chapter Meeting, Lexington, KY, April 2016. Profiling the effects of short time-course cold ischemia on tumor protein phosphorylation using a Bayesian approach.
- The Joint Statistical Meeting (JSM), Chicago, IL, July 30- August 4, 2016. Contributed poster presentations: Profiling the effects of short time-course cold ischemia on tumor protein phosphorylation using a Bayesian approach.

HONORS AND AWARDS

- Travel Award, 2016, Graduate school, University of Louisville
- University Graduate Scholarship, 2011-2013, University of Cincinnati
- University 1st Class Scholarship, 2007-2011, Hebei University, China
- Awarded “Outstanding Student”, 2007-2011, Hebei University, China

WORK EXPERIENCE:

Intern in General Department of the Statistic Bureau of Qinhuangdao
Qinhuangdao, Hebei Province, China

Jun 2010 – Jul 2010

- Editing part of statistical yearbook & statistics manual
- Monthly statistics data collection and collation
- Analyze monthly economic situation

COMPUTER SKILLS:

- Statistical software: R, WinBUGS and SAS (SAS Certified Base Programmer for SAS 9), and East Architect.
- Applications: MS Office Suite Applications and LaTeX.

MEMBERSHIPS

- American Statistical Association (ASA)
- Kentucky-ASA Chapter
- Biostatistics Club-University of Louisville (ASA sponsored)