

JING ZHANG

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RESEARCH INTERESTS

- Bayesian hierarchical models, Latent class models
- Missing data analysis, Longitudinal data analysis, Survival data analysis, Measurement error
- Meta-analysis, Clinical trials, Diagnostic tests

WORK EXPERIENCES

Assistant Professor	2014-Present
Department of Epidemiology and Biostatistics, School of Public Health, University of Maryland, College Park, MD	
Faculty Associate	2014-Present
Maryland Population Research Center, University of Maryland, College Park, MD	

EDUCATION

Ph.D., Biostatistics	2014
University of Minnesota, Twin Cities	
M.S., Biostatistics	2011
University of Minnesota, Twin Cities	
B.S., Mathematics	2009
China Agricultural University, Beijing	

EDITORIAL ACTIVITIES

Associate Editor	2015-Present
Journal of Biopharmaceutical Statistics	

PUBLICATIONS

Peer-reviewed Journal Articles

- **Zhang, J.**, Cole, S.R., Richardson, D.B., and Chu, H. (2013). "A Bayesian approach to strengthen inference for case-control studies with multiple error-prone exposure assessments". *Statistics in Medicine*, 32 (25): 4426-4437. [****Won 2013 JSM Young Investigator Award****]
- **Zhang, J.**, Carlin, B.P., Neaton, J.D., Soon G.G., Nie L., Kane, R., Virnig B.A., and Chu, H. (2014). "Network meta-analysis of randomized clinical trials: Reporting the proper summaries". *Clinical Trials*, 11 (2): 246-262.

- **Zhang, J.**, Fu, H., and Carlin, B.P. (2015). “Detecting outlying trials in network meta-analysis”. **Accepted provisionally** *Statistics in Medicine*.
- Hong, H., Chu, H., **Zhang, J.**, and Carlin, B.P. (2015). “A Bayesian missing data framework for generalized multiple outcome mixed treatment comparisons”. **Accepted provisionally** *Research Synthesis Methods*.

Book Chapters and Book Reviews

- **Zhang, J.**, Lin, L. (2014). “Choosing the appropriate statistics”. *Network meta-analysis: Evidence synthesis with mixed treatment comparison*.
- **Zhang, J.**, Yuan, Y. (2014). Randomized Phase II Cancer Clinical Trials (author: Jung, S. H.). *Journal of the American Statistical Association*, 109 (508): 1717.

Manuscripts Under Review / Revision

- **Zhang, J.**, Chu, H., Hong, H., Virnig, B.A., and Carlin, B.P. (2015). “Bayesian hierarchical models for network meta-analysis incorporating nonignorable missingness”. Revision *Statistical Methods in Medical Research*. [**Won 2014 ENAR Distinguished Student Paper Award & Earlier version won 2013 ICHPS Student Travel Award**]
- **Zhang, J.**, Yuan Y. (2015), “Industry-funded clinical trials: as righteous as evil?”. Submitted to *Clinical Research and Regulatory Affairs*.
- Lin, L., **Zhang, J.**, and Chu, H. (2015). “pcnetmeta: An R package for arm-based network meta-analysis”. Revision *The R Journal*.

Manuscripts in Preparation

- **Zhang, J.**, Yuan Y., Chu, H., “The effects of excluding trials from network meta-analyses”, manuscript.
- **Zhang, J.**, Wang, F., Deng, Q., “Longitudinal outcomes with time-to-event data: a case study from an exercise trial”, manuscript.
- **Zhang, J.**, Soon, G.G., Carlin, B.P., and Chu, H., “Network meta-analysis incorporating individual covariates: A case study for antiviral data”, in preparation.
- **Zhang, J.**, Soon, G.G., Carlin, B.P., and Chu, H., “Network meta-analysis for longitudinal studies with patient-level data”, in preparation.

HONORS & AWARDS / OTHERS

International Conferences

- Distinguished Student Paper Awards, International Biometric Society/Eastern North American Region Spring Meeting 2014
- Fostering Diversity in Biostatistics Workshop Travel Fund, International Biometric Society/Eastern North American Region Spring Meeting 2014
- Young Investigator Award, Statistics in Epidemiology Section, Joint Statistical Meeting 2013
- Student Travel Award, The 10th International Conference on Health Policy Statistics 2013
- ORISE Fellowship, Food and Drug Administration 2013

University of Minnesota

- Jacob E. Bearman Student Achievement Award (One student each year) 2014
- Honorable Mention Recipient of School of Public Health Research Day 2013
- School of Public Health Student Senate Grant 2013

- Dean's PhD scholars Awards 2012
- Graduate School Block Grant Fellowship 2010

China Agricultural University

- Champion in "Fengru Cup" Science-and-Technology Competition 2009
- Second place in "Challenge Cup" Enterprise-Proposal Competition 2008
- Academic Scholarship 2005 - 2008

Others

- ORISE fellowship, the Food and Drug Administration 2013

RESEARCH GRANTS (CURRENT COLLABORATIVE APPLICATIONS)

Advance (32% Summer Support)

University of Maryland College Park Seed Grant

RSR (38% Summer Support)

Food and Drug Administration

County Health Ranking Research Grants (31% Summer Support)

Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute

TEACHING

Instructor

Department of Epidemiology and Biostatistics
University of Maryland
 EPIB 650 – **Biostatistics I**

Jan 2015 - May 2015
College Park, MD

Teaching Assistant

Division of Biostatistics
University of Minnesota
 PUBH 6400 – **Biostat Method I**
 Instructor: Dr. Ann M Brearley

Sep 2009 - Jan 2011
Minneapolis, MN

STUDENT ADVISING

PhD dissertation committee

Andrew D. Williams

2015 - 2018

MPH thesis committee

David Michael Phillips

2014 - 2015

Academic Advisor

Christina Czabaranek

2014 - 2017

JOURNAL REFEREE

- Statistics in Medicine
- American Journal of Epidemiology
- BMC Medical Research Methodology

- Journal of Comparative Effectiveness Research

PROFESSIONAL SERVICE

- Chair for a topic-contributed session on “Survival Methods for Risk Analysis” at 2015 JSM conference
- Chair for session “46. Contributed papers: Applications of Bayesian Methods” at 2014 ENAR spring meeting

DEPARTMENTAL SERVICE

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| • Course Scheduling Committee | 2015 - now |
| • EPIB Graduate Studies Committee | 2014 - now |
| • Biostatistics Curriculum Committee | 2014 - now |

PRESENTATIONS

Invited Talks

- *International Chinese Statistical Association (ICSA) China Statistics Conference*, “Bayesian Network Meta-analysis of Clinical Trials”, Shanghai, China. Jul 2015
- *University of Maryland*, “Bayesian Network Meta-Analysis of Randomized Clinical Trials”, College Park, MD. Apr 2014
- *Food and Drug Administration (FDA)*, “Bayesian Network Meta-Analysis of Randomized Clinical Trials”, College Park, MD. Apr 2014

Refereed Presentations

- *International Biometric Society/Eastern North American Region (ENAR) Spring Meeting*, “Bayesian hierarchical models for network meta-analysis incorporating nonignorable missingness”, Baltimore, MD. Mar 2014
- *The 10th International Conference on Health Policy Statistics (ICHPS)*, “Bayesian hierarchical models for network meta-analysis incorporating nonignorable missingness”, Chicago, IL. Oct 2013
- *Joint Statistical Meeting (JSM)*, “Bayesian hierarchical models for network meta-analysis incorporating nonignorable missingness”, Montreal, Canada. Aug 2013
- *International Biometric Society/Eastern North American Region (ENAR) Spring Meeting*, “Network meta-analysis of randomized clinical trials: Reporting the proper summaries”, Orlando, FL. Mar 2013
- *International Biometric Society/Eastern North American Region (ENAR) Spring Meeting*, “A Bayesian approach to strengthen inference for case-control studies with multiple error-prone exposure assessments”, Washington DC, MD. Apr 2012

Non-Refereed Presentations

- *Research Day, School of Public Health, University of Minnesota*, “Bayesian hierarchical models for network meta-analysis incorporating nonignorable missingness”, Minneapolis, MN. Apr 2014
- *Intern Presentation, Food and Drug Administration (FDA)*, “Comparative efficacy of antiretroviral drugs: a network meta-analysis”, Silver Spring, MD. Sep 2013

- *Intern Presentation, Boehringer Ingelheim Pharmaceuticals, Inc.*, “Longitudinal outcomes with time-to-event data: a case study from an exercise trial”, Danbury, CT. Jul 2013
- *Research Day, School of Public Health, University of Minnesota*, “Network meta-analysis of randomized clinical trials: Reporting the proper summaries”, Minneapolis, MN. Mar 2013

RESEARCH EXPERIENCE

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|---|--|
| <p>Research Assistant
 <i>Division of Biostatistics</i>
 <i>University of Minnesota</i>
 Project: Bayesian hierarchical models for network meta-analysis
 Supervisors: Dr. Haitao Chu & Dr. Bradley P. Carlin</p> | <p>Jan 2012 - Present
 <i>Minneapolis, MN</i></p> |
| <p>Research Assistant
 <i>Division of Biostatistics</i>
 <i>University of Minnesota</i>
 Project: False discovery rate controlling when testing thousands of genes simultaneously under independence/arbitrary dependence
 Supervisor: Dr. Cavan Reilly</p> | <p>Jan 2011 - May 2012
 <i>Minneapolis, MN</i></p> |
| <p>Research Assistant
 <i>Division of Biostatistics</i>
 <i>University of Minnesota</i>
 Project: Variable selection with both stepwise method and penalized methods including LASSO, Adaptive LASSO, SCAD, and TLP
 Supervisor: Dr. Wei Pan</p> | <p>Sep 2010 - Jan 2011
 <i>Minneapolis, MN</i></p> |
| <p>Research Intern
 <i>Office of Biostatistics (OB)</i>
 <i>Center for Drug Evaluation and Research (CDER)</i>
 <i>Food and Drug Administration (FDA)</i>
 Project: Comparative efficacy of antiretroviral drugs: a network meta-analysis
 Supervisor: Dr. Guoxing Greg Soon</p> | <p>Jul 2013 - Sep 2013
 <i>Silver Spring, MD</i></p> |
| <p>Research Intern
 <i>Biostatistics</i>
 <i>Boehringer Ingelheim Pharmaceuticals, Inc.</i>
 Project: Longitudinal outcomes with time-to-event data: a case study from an exercise trial
 Supervisor: Dr. Fei Wang</p> | <p>May 2013 - Jul 2013
 <i>Danbury, CT</i></p> |

PROFESSIONAL MEMBERSHIPS

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| • American Statistical Association | 2010 - Present |
| • Eastern North American Region, International Biometric Society | 2010 - Present |
| • International Society for Bayesian Analysis | 2013 - Present |
| • International Chinese Statistical Association | 2012 - Present |

COMPUTATIONAL SKILLS

- Programming Languages: R, C, and C++
- Software: WinBUGS, SAS and Stata
- Operating Systems: Windows, Macintosh, and Linux