

Curriculum Vitae

Qingxia (Cindy) Chen, Ph.D.

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PERSONAL DATA:

Office Address Department of Biostatistics
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 Vanderbilt University
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EDUCATION:

06/99 BA of Statistics, Department of Statistics and Finance
 University of Science and Technology of China, Hefei, China

05/01 Master of Statistics, Department of Statistics
 University of Pittsburgh, Pittsburgh, PA

07/05 Doctor of Philosophy in Biostatistics
 University of North Carolina at Chapel Hill, Chapel Hill, NC
 Dissertation: Theory and Inference for Parametric and Semiparametric Methods
 in Missing Data Problem. Advisor: Joseph G. Ibrahim, coadvisor: Donglin Zeng

ACADEMIC HONORS:

Undergraduate:

09/95 - 06/99 USTC Outstanding Student Scholarship

Graduate School:

09/04 - 05/05 Student Travel Award, University of North Carolina at Chapel Hill

08/04 JSM-SBSS Student Travel Award

TRAINING:

09/2000-08/2001 Research Assistant, Department of Statistics, University of Pittsburgh

05/2001-08/2001 Internship in Western Psychiatric Institute and Clinics, Pittsburgh

08/2001-08/2005 Research Assistant, Department of Biostatistics, University of North Carolina at Chapel Hill

ACADEMIC APPOINTMENTS:

09/2005-present Assistant Professor (tenure-track), Department of Biostatistics, University of Vanderbilt

PROFESSIONAL ORGANIZATIONS:

American Statistical Association

International Biometric Society

International Society for Bayesian Analysis (ISBA)

International Chinese Statistical Association (ICSA)

PROFESSIONAL ACTIVITIES:

Intramural Services:

07/09 Committee Member, Jeffrey Thomas Leegon (MS student), with Thesis “A Comparison of Bayesian Network Structure Learning Algorithms on Emergency Department Ambulance Diversion Data”

09/05 - Present Committee Member, PhD search committee, Department of Biostatistics

09/08 - Present Committee Member, Graduate School Program, Department of Biostatistics

Extramural Services:

08/05 Session Chair of “Data Augmentation, EM, and Bayesian Methods with Missing Data”, Joint Statistical Meeting, Minneapolis, Minnesota.

03/11 Session Chair of “Adaptive Designs for Clinical Trials”, Eastern North American Region, Miami, FL.

Intramural Seminars and Lectures:

10/06 An Alternative Double Robustness Method for Estimating Population Means from Incomplete Data

Extramural (Visiting Professorships, Invited Lectureships, Seminars, Presentations and Symposia):

- 08/01 (Invited presentation) Generalized Mixed Model in Splines/R, Western Psychiatric Institute and Clinic, University of Pittsburgh.
- 03/04 Semiparametric Models for Missing Covariates in Regression Models, Eastern North American Region Meeting, Pittsburgh, PA.
- 08/04 Semiparametric Models for Missing Covariates in Generalized Linear Mixed Models, Joint Statistical Meeting, Toronto, Canada.
- 02/05 (Invited) Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems, University of Connecticut, Storrs, CT.
- 03/05 (Invited) Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems, Vanderbilt University, Nashville, TN.
- 03/05 Small Sample and Asymptotic Relationships between Multiple Imputation, Maximum Likelihood and Fully Bayesian Methods for Missing Data in Linear Regression Models, Eastern North American Region Meeting, Austin, TX.
- 03/05 (Invited) Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems, University of Florida, Gainesville, FL.
- 04/05 (Invited) Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems, University of Michigan, Ann Arbor, MI.
- 08/05 (Invited speaker) Small Sample and Asymptotic Relationships between Multiple Imputation, Maximum Likelihood and Fully Bayesian Methods for Missing Data in Linear Regression Models, Joint Statistical Meeting, Minneapolis, Minnesota.
- 03/06 (Contributed) Sieve Maximum Likelihood Estimation for Missing Covariates in Regression Models, Eastern North American Region Meeting, Tampa, Florida.
- 08/06 (Contributed) Sieve Maximum Likelihood Estimation for Missing Covariates in Regression Models, Joint Statistical Meeting, Seattle, Washington.
- 10/06 (Invited speaker) An Alternative Double Robust Method for Estimating Population Means from Incomplete Data, Vanderbilt University, Nashville, TN.
- 10/08 (Invited speaker) Statistical Modeling – An Example on Respiratory Syncytial Virus (RSV) Study, Meharry University, Nashville, TN.
- 07/09 (Invited speaker) Sieve Maximum Likelihood Estimation for Regression Models with Covariates Missing at Random, IMS-China Conference, Weihai, Shandong, P.R.China.
- 12/09 (Invited speaker) Gamma Frailty Transformation Models for Multivariate Survival Times, Vanderbilt University, Nashville, TN
- 04/10 (Invited speaker) An Alternative Double Robust Method for Estimating Population Means from Incomplete Data, George Mason University, Fairfax, VA.
- 05/10 (Invited speaker) Gamma Frailty Transformation Models for Multivariate Survival Times, National University of Singapore, Singapore.

03/11 (Contributed) A Bayesian Approach for Generalized Linear Model with an Explanatory Biomarker Measurement Variable Subject to Detection Limit – an Application to Acute Lung Injury. ENAR, Miami, FL.

JOURNAL REVIEWER:

Journal of the American Statistical Association
Biometrics
Journal of the Royal Statistical Society, Series C (Applied Statistics)
Philosophical Transactions of the Royal Society A
Statistics in Medicine
Bayesian Analysis
Journal of Official Statistics
Clinical Trials
Life Data Analysis
Health Services and Outcomes Research Methodology
Statistical Sinica
Mathematical Reviews, A division of the American Mathematical Society
OMICS Publishing Group/Biobio

TEACHING ACTIVITIES:

01/11-05/11 Coteach *Epidemiologic 323: Design and Analysis with Time-to-Event Data*, Department of Epidemiology, Vanderbilt University

01/05-06/05 Teaching assistant for *Advanced Probability and Statistical Inference (II) (BIOS 261)*, Department of Biostatistics, University of North Carolina at Chapel Hill.

08/04-12/04 Teaching assistant for *Statistical Analysis with Missing Data (BIOS 240)*, Department of Biostatistics, University of North Carolina at Chapel Hill.

01/04-06/04 Teaching assistant for *Bayesian Statistics (BIOS 231)*, Department of Biostatistics, University of North Carolina at Chapel Hill.

08/03-12/03 Teaching assistant for *Principles of Statistical Inference (BIOS 110)*, Department of Biostatistics, University of North Carolina at Chapel Hill.

01/01-05/01 Teaching assistant for *Statistics and Probability for Business Management (STAT 1100)*, Department for Statistics, University of Pittsburgh.

08/00-12/00 Teaching assistant for *Calculus I (MATH 0200)*, Department for Statistics, University of Pittsburgh

RESEARCH PROGRAMS:

(Principles Investigator) “A New Approach to Correct Verification Bias Using Auxiliary Information”, 1R21HL097334-01A2 funded by NHLBI, 12/20/2010 - 11/30/2012.

(Co-Investigator) “Disseminating Adapted Diabetes Evidence to Clinicians Through a Patient Portal”, 1R18HS019276-01 funded by Agency for Healthcare Research and Quality, 09/01/2010 - 08/31/2013, (PI: Rosenbloom S.T.)

(Co-Investigator) “An in-silico method for epidemiological studies using Electronic Medical Records”, 1R01CA141307-01 funded by NHLBI, 10/01/2009 - 06/30/2013, (PI: Hua Xu)

(Co-Investigator) My MediHealth (PI: Kevin Johnson)

(Co-Investigator) Keipp IDSA grant

(Co-Investigator) “A Longitudinal Study of CA-MRSA Nasal Colonizations in College Sports Participants”, K23 A174830-01A funded by NIH/NIAID/DMID, 09/01/2008-06/30/2009, (PI: Creech C.B.)

A Framework Based Clinical Documentation Evaluation Method, R01 LM09591-01A1 funded by NIH/NLM, 11/01/2008-06/30/2010, (PI: Rosenbloom S.T.)

(Co-Investigator) “State and Regional Demonstrations of Health Information Technology”, 290-04-0016, 07/01/2008-09/29/2009, (PI: Frisse M.)

(Co-Investigator) “Annual Estimates of Influenza Vaccine”, U18 P000184-01 funded by CDC, 08/01/2008-07/31/2009, (PI: Griffin M.)

(Biostatistician) “QT Interval Remodeling in Atrial Fibrillation”, R01 HL085690-01A1 funded by NIH/NIAID/DMID, 01/01/2008-11/30/2008, (PI: Dawood D.).

(Co-Investigator) “Adult Flu Hospitalizations: Evaluating Diagnostic Methods and Vaccine Effectiveness”, K23 AI074863 funded by NIH/NIAID/DMID, (PI: Talbot H.K.)

(Co-Investigate) “Vaccine Treatment and Evaluation Units”, N01 AI25462 funded by NIH/NIAID/DMID (PI: Edward K.)

(Co-Investigate) “Vaccine Treatment and Evaluation Units – Core”, N01 A180007 funded by NIH/NIAID/DMID, 09/01/2008-06/30/2009, (PI: Edward K.)

(Co-Core Leader) “SCCOR in Hemostatic and Thrombotic Diseases”, 1P50 HL081009-01 funded by NIH/NHLBI, 11/01/2008-06/30/2009, (PI: Vaughan D.E.).

(Biostatistician) “Inpatient Monitoring Using Evidence for Safe and Appropriate Testing”, R01 LM007995-03 funded by NIH/NLM, (PI: Miller R.).

BIBLIOGRAPHY:

PEER REVIEWED METHODOLOGY PUBLICATIONS:

1. Zeng D., **Chen Q.**, Chen M-H, Ibrahim J.G., the Amgen Research Group (2010) "Estimating Treatment Effects with Treatment Crossovers via Semi-Competing Risks Models: An Application to a Colorectal Cancer Study". *Biometrika*. Invited revision.
2. Janssen, K.J.M., Donders, A.R.T., Harrell, F.E., Vergouwe, Y., **Chen Q.**, Grobbee, D.E., Moons, K.G.M. (2010) "Missing covariate data in medical research: To impute is better than to ignore". *J Clin Epidemiol*. 63(7):721-7.
3. Zeng, D., **Chen Q.*** (2010) "Adjustment for Missingness Using Auxiliary Information in Semiparametric Regression". *Biometrics*. 66(1):115-22.
* Corresponding Author.
4. Zeng, D., **Chen Q.**, Ibrahim, J. G. (2009) "Gamma frailty transformation models for multivariate survival times". *Biometrika*. 96(2):277-291.
5. Janssen K.J.M., Vergouwe Y., Donders A.R.T., Harrell F.E. Jr., **Chen Q.**, Grobbee D.E., Moons K.G.M. (2009) "Dealing with missing predictor values when applying clinical prediction models". *Clin Chem*. 2009 May;55(5):994-1001.
6. **Chen Q.**, Ibrahim, J. G., Chen, M.-H., Senchaudhuri, P. (2008) "Theory and Inference for Regression Models with Missing Response and Covariates". *Journal of Multivariate Analysis*. 99(6). 1302-31.
7. **Chen Q.**, Zeng, D., Ibrahim, J. G. (2007) "Sieve Maximum Likelihood Estimation for Missing Covariates in Regression Models". *Journal of the American Statistical Association*. Vol 102, 1309-1318.
8. **Chen Q.**, Ibrahim J. G. (2006) "Semiparametric Models for Missing Covariate and Response Data in Regression Models". *Biometrics*, 62, 177-184.

PEER REVIEWED COLLABORATION PUBLICATIONS:

1. Talbot H., Griffin M., **Chen Q.**, Zhu Y., Williams J., Edwards K. (2010) "Effectiveness of Seasonal Vaccine in Preventing Confirmed Influenza-Associated Hospitalizations in Community Dwelling Older Adults". *Journal of Infectious Diseases*. Accepted.
2. Stenner S.P., **Chen Q.**, Johnson K.B. (2009) "The Impact of an Electronic Prescribing Intervention on Generic Medication Prescribing Behavior", *AMIA Annu Symp Proc*. Accepted.
3. Rosenbloom S., McGregor T., **Chen Q.**, An A., Hsu S., Dupont W. (2010) "Specialized Pediatric Growth Charts For Electronic Health Record Systems: the example of Down Syndrome". *AMIA Annu Symp Proc*. Accepted.

4. Petty, T., Callahan, S.T., **Chen Q.**, Edwards, K.M., Dempsey, A. (2010) "Assessment of Parental Acceptance of a Potential Cytomegalovirus Vaccine for Adolescent Females Vaccine". Vaccine. Accepted.
5. Ali SA, Williams JV, **Chen Q.**, Faori S, Shehabi A, Jundi EA, Khuri-Bulos N, Halasa N. (2010) "Human Metapneumovirus in Hospitalized Children in Amman, Jordan". J Medical Virology, 82:1012-6.
6. Khuri-Bulos N, Williams JV, Shehabi AA, Faouri S, Al Jundi E, Abushariah O, **Chen Q.**, Ali SA, Vermund S, Halasa NB. (2010) "Burden of RSV in Hospitalized Infants and Young Children in Amman, Jordan", Scand J Infect Dis., 42(5):368-74.
7. Li J, Solus J, Chen Q, Rho YH, Milne G, Stein CM, Darbar D. (2010) "Role of inflammation and oxidative stress in atrial fibrillation". Heart Rhythm., 7(4):438-44
8. Miller E.K., Khuri-Bulos N., Williams J.V. Shehabi A.A., Faouri S., Jundi I.A., **Chen Q.**, Heil L., Mohamed1 Y., Morin L., Ali A., Halasa N.B. (2009) "Human Rhinovirus C Associated with Wheezing in Hospitalized Children in the Middle East", J Clin Virol., 46(1):85-9.
9. Talbot H.K., Poehling K.A., Williams J.V., Zhu Y., **Chen Q.**, McNabb P., Edwards K.M., Griffin M.R. (2009) "Influenza in Older Adults: Impact of Vaccination of School Children". Vaccine. 27(13):1923-7.
10. Ali YS, Rembold KE, Wills MB, **Chen Q.**, Ayers CR, Rembold CM. (2008) "Clinical significance of mobile carotid echoes". University of Virginia Journal of Medicine. Oct;4:29-34. <http://www.healthsystem.virginia.edu/internet/jom/vol4/JoM-v4-Oct-2008.pdf>
11. Johnson K., Chark D., MSc, **Chen Q.**, Broussard A., Rosenbloom T. (2008) "Performing Without a Net: Transitioning Away From a Health Information Technology-Rich Training Environment". Academic Medicine. 83(12),
12. Shinall M.C., Peters T.R. Zhu Y., **Chen Q.**, Poehling K.A. (2008) "Potential Impact of Accelerating the Primary Series of Pertussis Vaccine in Infants". Pediatrics. 122(5), 1021-6.
13. Halasa N., Gerber M., **Chen Q.**, Wright P., Edwards K. (2008) "Safety and immunogenicity of trivalent inactivated influenza vaccine in infants". Journal of Infectious Diseases. 197(10), 1448-1454.
14. Devin J.K., Vaughan D.E., Blevins L.S., **Chen Q.**, Covington J., Verity D.K., Young P.P. (2008) "Low-Dose Growth Hormone Administration Mobilizes Endothelial Progenitor Cells in Healthy Adults". Growth Hormone and IGF Research. 18(3), 253-263.
15. Devin J.K., Blevins L.S., Verity D.K., **Chen Q.**, Bloodworth J.R., Covington J., Vaughan D.E. (2007) "Markedly Impaired Fibrinolytic Balance Contributes to Cardiovascular Risk in Adults with Growth Hormone Deficiency". Journal of Clinical Endocrinology and Metabolism. 3633-3639.
16. Joos D., **Chen Q.**, Jirjis J., Johnson KB (2006). "An Electronic Medical Record in Primary Care: Impact on Satisfaction, Work Efficiency and Clinic Processes". AMIA Annu Symp Proc, 394-8.

17. Dexheimer J., Jones I., **Chen Q.**, Talbot T., Mason D., Aronsky D. (2006). "Providers' Beliefs, Attitudes, and Behaviors Prior to Implementing a Computerized Pneumococcal Vaccination Reminder." *Academic Emergency Medicine*. *Acad Emerg Med*, 13(12), 1312-8.
18. Hall M, Vasko R, Buysse D, Ombao H, **Chen Q.**, Cashmere D, Kupfer D and Thayer J. (2004). "Acute Stress Affects Heart Rate Variability During Sleep". *Journal of Psychosomatic Medicine*, 66, 56-62.
19. Moul, D., Ombao H., Monk T., **Chen Q.**, Begley A., Buysse D. (2002). "Masking effects of posture and sleep onset on core body temperature: a circadian rhythm of bedtime temperature drops". *Journal of Biological Rhythms*, 17, 447-462.

Competing Abstract Accepted:

1. Petty, T., Callahan, S.T., **Chen Q.**, Edwards, K.M., Dempsey, A. (2009) "Assessing parental acceptance of a potential cytomegalovirus vaccine for adolescent females" Society for Adolescent Medicine's 2010. New Investigator Award.