**BAOJIANG CHEN**

**ADDRESS:** Department of Biostatistics and Data Science, School of Public Health
The University of Texas Health Science Center at Houston
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(512) 482-6185 (Fax)

## EDUCATION:

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|---|---|---|---|
| Ph.D. | Statistics | 2009 | University of Waterloo, Canada |
| M.S. | Statistics | 2005 | Nankai University, China |
| B.S. | Probability and Statistics | 2002 | Nankai University, China |

## PROFESSIONAL APPOINTMENTS:

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| 2016-Present | Associate Professor**,** Department of Biostatistics, School of Public Health, The University of Texas Health Science Center at Houston |
| 2010-2016 | Assistant Professor, Department of Biostatistics, College of Public Health, University of Nebraska Medical Center |
| 2011-2016 | Assistant Professor, Department of Statistics, University of Nebraska-Lincoln (Adjunct) |
| 2009-2010 | Acting Instructor, Department of Biostatistics, University of Washington |
| 2009-2010 | Statistical Analyst, WOC, Department of Veterans Affairs (VA), Seattle Washington |
| 2008-2009 | Research Associate, Department of Statistics and Actuarial Science, University of Waterloo |
| 2005-2008 | Research Assistant, Department of Statistics and Actuarial Science, University of Waterloo |
| 2005-2008 | Teaching Assistant, Department of Statistics and Actuarial Science, University of Waterloo |

## HONORS AND AWARDS:

1. Recognition of Service, University of Nebraska Medical Center, 2016.
2. College of Public Health Faculty Research Award, University of Nebraska Medical Center, 2015.
3. Pierre Robillard Award for the best PhD thesis in the areas of probability and statistics, Canada, 2009
4. Sprott Scholarship for excelling in the doctoral comprehensive examinations, University of Waterloo, 2008
5. International Biometric Society's Eastern North American Region (ENAR) Distinguished Student Paper Award, 2008
6. Complementary Student Membership of Statistical Society of Canada, 2008
7. Teaching Assistant Award, University of Waterloo, 2007
8. Complementary Student Membership of Statistical Society of Canada, 2007
9. International Doctoral Student Award, University of Waterloo, 2005--2008
10. Statistics and Actuarial Science Chair's Award, University of Waterloo, 2005--2007
11. Grad Merit Award, University of Waterloo, 2006--2007
12. Second class, best Master's thesis of Nankai University, 2005
13. Third class, best Master's thesis of China, 2005
14. Honored to participate in the summer school of Applied statistics in Tsinghua University and take part in the International Conference on Design of Experiment, 2004
15. Outstanding Student of Nankai University, 2002
16. Rank Certificate of Computer Software Engineer approved and issued by Ministry of Information Industry of P. R. China, 2000
17. Nankai University Scholarships, 1999—2005

**CURRENT FUNDING:**

NCI/NIH Perry (PI) 11/01/16-08/31/18
Tobacco Center of Regulatory Science on Youth and Young Adults.
Role: Statistician (20%) $ 19,739,033

**SUBMITTED PROPOSALS UNDER REVIEW:**

NCI/NIH Perry (PI) 09/01/18-08/31/23
Tobacco Center of Regulatory Science on Youth and Young Adults 2.0.
Role: Statistician

NIH Casey (PI) 04/01/18-

Effect of school-based dual-use park implementation on physical activity and physical fitness in adults and children.
Role: Co-I, Statistician (5%)

NIH Hoelscher (PI)

Optimizing Nutrition and Physical Activity Environments by Leveraging Big Data Analytics.

Role: Co-I, Statistician (20%)

AHA Hoelscher (PI)

Texas Center for Child Heart Health to examine adolescent obesity and cardiovascular health in a school-based setting at the microbial, individual and organization level.

Role: Co-I, Statistician (20%)

NIH Kelder (PI) 09/01/17-08/31/22

A Middle School Cluster RCT to Evaluate an E-cigarette Prevention Program: CATCH My Breath.
Role: Co-I, Statistician (15%)

**PREVIOUS FUNDING:**

36-5410-2049-001 Yu (PI) 05/01/16-04/30/17
Task shifting of antiretroviral treatment from doctors to primary-care nurses in South Africa (STRETCH): A procedural replication of Fairall, et al. (2012)
Role: Subcontract PI (19%) $28, 988

28249990-52912A Vose (PI) 06/ 01/11 – 07/31/16
Stanford University Medical Center
FLT-PET/CT for Therapy Monitoring of Diffuse Large B-Cell Lymphoma.
Role: Co-I (6%) $51,090

OPP1034619 Obaro (PI) 07/31/12 – 06/30/17
Gates Foundation
Community-Acquired Pnemonia and Invasive Bacterial Diseases in Young Nigerian Children (CAPIBD)-A Platform Preparatory Study
Role: Co-I (5%) $3,593,016

1R01EB017853-01A1 Mahato (PI) 07/01/14 – 05/31/18
DHHS/NIH/NIBIB
Polymeric Nanomedicines of Small Molecules and miRNAfor Treating Pancreatic Cancer
Role: Co-I (3%) $223,495

1R01GM113166-01A1 Mahato (PI) 07/15/15 – 03/31/19
DHHS/NIH/NIBIB
Polymeric Nanomedicines of Hedgehog Inhibitor and miRNA for Treating Pancreatic cancer
Role: Co-I (3%) $237,000

COPH UNMC Wang and Kim (PIs) 07/01/15-6/30/16
An Examination of Factors Influencing Cancer Screening of Rural Nebraskans Using Data from Clinics Participating in an Accountable Care Organization

Role: Co-I (0%) $100,000

UNMC Pozehl (PI) 09/01/15-8/30/16
AHA Collaborative Grant – Pilot work for Population Project
Role: Co-I (0%) $5,000

COPH UNMC Soliman (PI) 09/15/15-9/14/16
Nutrition-Sensing Metabolic Pathways as Targets for Early Detection and Control of Pancreatic Cancer
Role: Co-I (0%) $100,000

CA98413-09 Anderson (PI) 08/01/11 - 09/31/12
National Children's Cancer Foundation,
Children's Oncology Statistics and Data Center
The Statistical Center (consisting of the Biostatistical Center at UNMC in Omaha, NE and the Data Management Center at the CCG/SDC in Arcadia, CA) will be responsible for all data management, data processing and statistical activities within
Role: Co-I (20%) $197,097

5R03CA149857-02 Hollingsworth (PI) 09/01/12-08/31/14
DHHS/NIH/NCI
A Novel Combination Therapy for the Treatment of Pancreatic Adenocarcinoma
Role: Co-I (5%) $50,000

Dean’s mentored pilot grant Chen (PI) 02/01/13 - 01/31/14
CoPH, UNIVERSITY OF NEBRASKA, Statistical methods for investigating factors that influence the occurrence of dementia in the presence of auxiliary information and non-random missingness.
Role: PI (0%) $25,000

Dean’s collaborative pilot grants Luo (PI) 02/01/13 – 1/31/14
CoPH, UNIVERSITY OF NEBRASKA,
Statistical Analysis for MOE Effects in Disease Surveillance
Role: Co-I (0%) $23,795

DHHS mini-grant Jiang (PI) 11/2013-4/19/2014
DHHS, Nebraska
Cardiac rehabilitation and other prognostic factors in coronary heart disease
Role: Faculty mentor (0%) $3,000

7R01DK060632-10 Black (PI) 01/01/12 – 11/30/14
DHHS/NIH/NIDDK
Regulation of Cyclin D1 Expression in the Intestine
Role: Co-I (5%) $156,618

FY2013 ACR Michaud (PI) 07/01/12 - 06/30/15
American College of Rheumatology Research,
Mortality Due to Rheumatoid Arthritis and Treatments.

Role: Co-I (5%) $231,482

**PUBLICATIONS:**

**Articles in Refereed Journals:**

1. Sun, Y., Sun, Y**., Chen, B.** and Fang, Z. (2004). Research on the One Vertex and Two Vertices Connectivity Reliability in the Wireless Sensor Networks. *Chinese Journal of Sensors and Actuators*, 17e, 379--385. No NIH funding.
2. Li, P., **Chen, B.,** Liu, M. and Zhang, R. (2006). A Note on Minimum Aberration and Clear Criteria. *Statistics and Probability Letters,* 76, 1007--1011. No NIH funding.
3. **Chen, B.,** Li, P., Liu, M. and Zhang, R. (2006). Some Results on Blocked Regular 2-level Fractional Factorial Designs with Clear Effects. *Journal of Statistical Planning and Inference*, 136, 4436--4449. No NIH funding.
4. **Chen, B.,** Yi, G. Y. and Cook, R. J. (2009). Likelihood Analysis of Joint Marginal and Conditional Models for Longitudinal Categorical Data*. Canadian Journal of Statistics*, 37, 182--205. No NIH funding.
5. Wong, R. K., Sagar S. M., **Chen, B.,** Yi, G. Y. and Cook, R. J. (2010). Phase II Randomized Trial of Acupuncture-Like Transcutaneous Electrical Nerve Stimulation to Prevent Radiation-Induced Xerostomia in Head and Neck Cancer Patients. *Journal of the Society of Integrative Oncology,* 8, 35--42. PMID: 20388444. No NIH funding.
6. Yi, G. Y., Cook, R. J. and **Chen, B**. (2010). Estimating functions for evaluating treatment effects in cluster-randomized longitudinal studies in the presence of drop-out and non-compliance. *Canadian Journal of Statistics*, 38, 232--255. No NIH funding.
7. **Chen, B.,** Yi, G. Y. and Cook, R. J. (2010). Weighted Generalized Estimating Functions for Incomplete Longitudinal Response and Covariate Data that are Missing at Random. *Journal of the American Statistical Association*,105, 336--353. No NIH funding.
8. **Chen, B.,** Yi, G. Y. and Cook, R. J. (2010). Analysis of Interval-Censored Disease Progression Data via Multi-State Models under a Nonignorable Inspection Process. *Statistics in Medicine*, 29, 1175--1189. PMID: 20437455. **Feature Article of the 29th Issue.** No NIH funding.
9. **Chen, B.,** Yi, G. Y. and Cook, R. J. (2011). Progressive Multi-State Models for Informatively Incomplete Longitudinal Data. *Journal of Statistical Planning and Inference*, 14, 80--93. No NIH funding.
10. **Chen, B.** and Zhou, X.H. (2011). Doubly Robust Estimates for Longitudinal Data Analysis with Missing Response and Missing Covariates. *Biometrics*, 67, 830--842. PMID: 21281272. No NIH funding.
11. **Chen, B.** and Zhou, X.H. (2011). Non-homogeneous Markov Process Models with Incomplete Observations: Application to a Dementia Disease Study. *Biometrical Journal,* 53, 444--463. PMID: 21491475. No NIH funding.
12. **Chen, B.** and Thompson, M. (2011). An Analysis of Intention to Quit Smoking in the ITC4 Survey Accounting for Missingness in Response and Covariate*. Proceedings of the XXVth International Survey Methodology Symposium.* No NIH funding.
13. **Chen, B.,** Chen, Z., Wu, L., Wang, L. and Yi, G. Y. (2011). Marginal Analysis of A Population-Based Genetic Association Study of Quantitative Traits with Incomplete

Longitudinal Data. *Journal of the Iranian Statistical Society (JIRSS),* 10, 109--123. No NIH funding.

14. Liu, L., **Chen, B.**, et al. (2011). An investigation study on occupational stress and quality of life among the Chinese insurance practitioners. *Health MED*, 5(3), 557--566. No NIH funding.
15. **Chen, B.** and Zhou, X.H. (2012). A latent variable method for marginal model with incomplete observations. *Statistics in Medicine*, 31, 3211-3222. PMID: 22733392.
16. **Chen, B.,** Yi, G. Y., Cook, R. J. and Zhou, X.H. (2012). Marginal methods for clustered longitudinal binary data with incomplete covariates. *Journal of Statistical Planning and Inference,* 142, 2819-2831. PMID: 23805025.
17. Zhou, X.H**., Chen, B.,** Xie, Y.M., Tian, F. and Liang, X. (2012). Variable selection using the optimal ROC curve: An application to a traditional Chinese Medicine study on osteoporosis disease. *Statistics in Medicine*, 31, 628-635. PMID: 21290404.
18. **Chen, B.** and Schmid, K.K. (2012). Missing Data: A Non-ignorable Issue in Modern Biostatistics*. J Appl Bioinform Comput Bio, 1:1. doi:10.4172/jbcg.1000e101.* No NIH funding.
19. Smith-Miloff, M.L., Perkins, T.G., **Chen, B.,** et al. (2012). Abdominal MRI at 3.0T: Parallel Radiofrequency Transmission (MTX) Improves the Signal-to-Noise and Contrast-to-Noise Ratios and Body-habitus-dependent B1 Inhomogeneity. *Proceeding of International Society for Magnetic Resonance in Medicine* 20, 1283. No NIH funding.
20. **Chen, B.** and Zhou, X.H. (2013). Generalized Partially Linear Models for Incomplete Longitudinal Data via Pseudo-Empirical Likelihood-based Method In the Presence of Population-Level Information. *Biometrics,* 69, 386-395*.* PMID: 23413768.
21. **Chen, B.** and Zhou, X.H. (2013). A Correlated Random Effects Model for Non-homogeneous Markov Process with Nonignorable Missingness. *Journal of Multivariate Analysis,* 117, 1-13*.* PMID: 23828666.
22. **Chen, B.** and Qin, J. (2013). A new estimation with minimum trace of asymptotic covariance matrix for incomplete longitudinal data with a surrogate process. *Statistics in medicine*, 32, 4763-4780. PMID: 23744541.
23. Koepsell, T. D., Gill, D. P. and **Chen, B*.** (2013). Stability of Clinical Etiologic Diagnosis in Dementia and Mild Cognitive Impairment: Results from a Multi-Center Longitudinal Database. *American Journal of Alzheimer's Disease and Other Dementias*, 28, 750-758. PMID: 24363072. ***Corresponding author.**
24. **Chen, B.** and Qin, J. (2013). Use empirical likelihood to calibrate auxiliary information in partly linear monotone regression models. *Statistics in medicine*, 33, 1713-1722. PMID: 24323567.
25. Allis, T. J., Owen, B. D., **Chen, B.,** Moore, G. F. (2014). Longer length BAHA abutments decrease wound complications and revision surgery. *Laryngoscope*, 124, 989-992. PMID: 24114744.
26. **Chen, B.** and Qin, J. (2014). Test the reliability of doubly robust estimation with missing response data. *Biometrics*, 70, 289-298. PMID: 24571677.
27. Romereim, S., Conoan, N. H., **Chen, B.**, and Dudley, A.T. (2014). A dynamic cell adhesion surface regulates tissue architecture in growth plate cartilage. *Development,* 141, 2085-2095*.* PMID: 24764078.
28. Liu, W., Zhang, B. Zhang, Z, **Chen, B.**, and Zhou, X.H. (2015). A pseudo-likelihood approach for estimating diagnostic accuracy of multiple binary medical tests. *Computational Statistics and Data Analysis*, 84, 85-98. No NIH funding.

29. **Chen, B.,** Zhou, X.H., and Chan, G. (2015). Pseudo-empirical likelihood method using calibration for longitudinal data with drop-out. *Journal of Royal Statistical Society Series C*, 64, 157-174. PMID: 25587200.
30. **Chen, B.**, Li, P., Qin, J. and Yu, T. (2015). Using a monotonic density ratio model to find the asymptotically optimal combination of multiple diagnostic tests. *Journal of the American Statistical Association*, 111, 861-874. No NIH funding.
31. Obaro SK, Hassan-Hanga F, Olateju EK, Umoru D, Lawson L, Olanipekun G, Ibrahim S, Munir H, Ihesiolor G, Maduekwe A, Ohiaeri C, Adetola A, Shetima D, Jibir BW, Nakaura H, Kocmich N, Ajose T, Idiong D, Masokano K, Ifabiyi A, Ihebuzor N, **Chen B.**, Meza J, Akindele A, Rezac-Elgohary A, Olaosebikan R, Suwaid S, Gambo M, Alter R, Davies HD, Fey PD. (2015). Salmonella bacteremia among children in central and northwest Nigeria, 2008-15. *Clinical Infectious Diseases,* 61, 325-331. PMID: 26449948.
32. Kaur, H., Schmidt-Grimminger, D., Remmenga, S., **Chen, B.**, Islam, K. M., and Watanabe- Galloway, S. (2015). Does human papillomavirus (HPV) affects pregnancy outcomes? A retrospective cohort study based on hospital data, 2012-2014. *International Journal of Women's Health and Wellness, 1:006.* No NIH funding.
33. Zhu, H., Wilson, F. A., Stimpson, J. P., Araz, O. M., Kim, J., **Chen, B.,** Wu, L. (2016). The Association of Gasoline Prices with Hospital Utilization and Costs for Motorcycle and Non-Motorcycle Motor Vehicle Injuries in the United States. *Medical Care*, 54, 837-844. PMID: 27116108.
34. Hossain, Ahmed, E. S., Yi, G. Y., and **Chen, B.** (2016). Shrinkage and Pretest estimators in partially linear models for longitudinal data. *Journal of Nonparametrics*, 28, 531-549. No NIH funding.
35. Khanal, N., Bociek, G., **Chen, B.,** Vose, J. M., Armitage, J. O., Bierman, P. J., Maness, L. J., Lunning, M. A., Gundabolu, K., Bhatt, V. R. (2016). Venous Thromboembolism in Patients with Hematologic Malignancy and Thrombocytopenia. *American Journal of Hematology,* 91, E468-E472. PMID: 27489982.
36. Liu J., Luo Z., Wang L., Nie Q., Wang Z., Huang Z., Hu X., Gong L., Arrigo A. P., Zhang L., Tang X., Xiang J., Liu F., Deng M., Ji W., Hu W., Zhu J., **Chen B.**, Bridge J., Hollingsworth, M., Gigantelli J., Liu Y., Nguyen, Q. D., Li, D. W. (2016). The Small Heat Shock Protein αA-Crystallin Negatively Regulates Pancreatic Tumorigenesis. *Oncotarget*, 7(40), 65808-65824. PMID: 27588467.
37. Beck, J. C., **Chen, B.**, Gordon, B. G. (2017). Physician Approaches to Drug Shortages: Results of a National Survey of Pediatric Hematologist/Oncologists. *World Journal of Clinical Oncology*, 8(4) 336-342 PMID: 28848700.
38. Wang, H., Abbey, G., Qiu, F., Kim, J., **Chen, B.,** Wan, N., Su, D., Michaud, T., Chen, L. (2017). Breast Cancer Screening for Patients of Rural Accountable Care Organization Clinics: A Multi-Level Analysis of Barriers and Facilitators. *Journal of Community Health,* doi: 10.1007/s10900-017-0412-x. PMID: 28861654.
39. **Chen, B.**, LI, P., Qin, J. (2017). Generalization of Heckman selection model to nonignorable nonresponse using call-back information. Statistic *Sinica*, published online.
40. Wang Y, Wilson F, Stimpson J, Wang H, David P, **Chen B**, Chen LW. (2017). Fewer immigrants have preventable emergency department visits in the United States. *The American Journal of Emergency Medicine*. DOI: 10.1016/j.ajem.2017.08.018. PMID: 28826639.

41. Wang, H., Qiu, F., Abbey, G., **Chen, B.**, Kim, J., Young, L., Wan, N., Chen, L. (2017). Barriers and Facilitators of Colorectal Cancer Screening for Patients of Rural Accountable Care Organization Clinics: A Multilevel Analysis. *Journal of Rural Health.* DOI: 10.1111/jrh.12248. PMID: 28686787.

**Books and book chapters:**

1. **Chen, B.** and Cook, R. J. (2011). Strategies for Bias Reduction in Estimation of Marginal Means with Data Missing at Random. *Optimization and Data Analysis in Biomedical Informatics*. Ed: Panos Pardalos. American Mathematics Society.

**Other Publications and technical reports:**

1. **Chen B.**, G. Y. Yi, and R. J. Cook (2007). Likelihood Analysis of Joint Marginal and Conditional Models for Longitudinal Categorical Data. Working paper 2007-05, Department of Statistics and Actuarial Science, University of Waterloo.
2. **Chen B.**, G. Y. Yi, and R. Cook (2008). Analysis of Interval-Censored Disease Progression Data via Multi-State Models under a Nonignorable Inspection Process. Working paper 2008-01, Department of Statistics and Actuarial Science, University of Waterloo.
3. **Chen B.**, G. Y. Yi, and R. Cook (2008). Weighted Generalized Estimating Functions for Incomplete Longitudinal Response and Covariate Data. Working paper 2008-06, Department of Statistics and Actuarial Science, University of Waterloo.
4. Zhou, X.H. and **Chen, B.** (2011). Non-Homogeneous Markov Process Models with Incomplete Observations: Application to a Dementia Disease Study. Technical Report, Department of Biostatistics, University of Washington.
5. **Chen, B.,** Zhou, X.H. (2011). Doubly Robust Estimates for Binary Longitudinal Data Analysis with Missing Response and Missing Covariates. Technical Report, Department of Biostatistics, University of Washington.
6. Kaur, H., Remmenga, S., Remmenga, S. W., Schmidt-Grimminger, D., **Chen, B.**, Islam, K. M., and Watanabe- Galloway, S. (2015). Does human papillomavirus affect pregnancy outcomes? An analysis of hospital data 2012-2014. Poster for SER conference.
7. Khanal, N., Bociek, G., **Chen, B.,** Vose, J. M., Armitage, J. O., Bierman, P. J., Maness, L. J., Lunning, M. A., Gundabolu, K., Bhatt, V. R. (2015). Use of Low Molecular Weight Heparin (LMWH) in Thrombocytopenic Patients with Hematologic Malignancy-Associated Venous Thromboembolism (VTE). Poster for ASH 2015.

**Abstracts published:**

1. Hsu, A. H., Curry, K. J., Shim, K. S., Frederick, P., Morrison, C. D., **Chen, B.**, Lele, S., Leone, G., Black, A. R., and Black, J. D. (2015). Protein kinase C alpha (PKCα) signaling in endometrial cancer. Proceedings of the 106th Annual Meeting of the American Association for Cancer Research; 2015 Apr 18-22; Philadelphia, PA. Philadelphia (PA): AACR; Cancer Res 2015;75(15 Suppl):Abstract nr 4720. doi:10.1158/1538-7445.AM2015-4720.
2. Makhija, C., Mack, L. R., Rochling, F., **Chen, B.**, Hultgren, T. L., Larsen, J. L. (2015). Treatment of Vitamin D Deficiency in Intestinal Rehabilitation Clinic Patients

with Portable Ultraviolet -B Lamp. THR-251, Endocrine Society's 97th annual meeting and Expo, March 5–8, 2015 - San Diego. *Endocrine Reviews* 2015: 36(2).

3. Khanal, N., Bociek, G., **Chen, B.,** Vose, J. M., Armitage, J. O., Bierman, P. J., Maness, L. J., Lunning, M. A., Gundabolu, K., Bhatt, V. R. (2015). Use of Low Molecular Weight Heparin (LMWH) in Thrombocytopenic Patients with Hematologic Malignancy-Associated Venous Thromboembolism (VTE). Blood 2015 126:3482.
4. Bhatt, V. R., **Chen, B.,** Lee, S. (2016). Hematopoietic cell transplantation (HCT) in older patients with acute myeloid leukemia (AML). J Clin Oncol 34, 2016 (suppl; abstr e18026).
5. Bhatt, V. R., **Chen, B.,** Lee, S. (2016). Determinants of receipt of hematopoietic cell transplantation (HCT) in younger patients with acute myeloid leukemia (AML). J Clin Oncol 34, 2016 (suppl; abstr e18027).
6. Khanal, N., Bociek, G., **Chen, B.,** Vose, J., Armitage, J. O., Bierman, P. J., Maness, L. J., Lunning, M. A., Gundabolu, K., Bhatt, V. R. (2016). Low Molecular Weight Heparin (LMWH) Use in Patients with Hematologic Malignancy-Associated Venous Thromboembolism (VTE) and Severe Thrombocytopenia J Clin Oncol 34, 2016 (suppl; abstr e21588).
7. Kallam A, Vose JM, **Chen B**, Armitage JO, Bhatt VR. Risk of 30-Day Mortality and Its Association with Health System and Socioeconomic Factors in Diffuse Large B Cell Lymphoma (DLBCL). 58th ASH Annual Meeting. December 3-6, 2016, San Diego, CA. [Accepted]
8. Kallam A, Armitage JO, **Chen B**, Vose JM, Bhatt VR. Center Effect and Socioeconomic Determinants of Overall Survival (OS) of Diffuse Large B Cell Lymphoma (DLBCL). 58th ASH Annual Meeting. December 3-6, 2016, San Diego, CA. [Accepted as on-line publication]
9. Fan, S., Guo, T., **Chen, B.,** Xiong, J., Wang, F., Carol T. (2017). Comparison of Aqueous Humor Dynamics Among Chinese and Caucasian Adults. The *Association for Research in Vision and Ophthalmology* (ARVO). May 7-11, 2017, Baltimore, MD. [Accepted].
10. Toris, C., **Chen, B.,** Xiong, J., Fan, S., Wang, F., Guo, T. (2016). Differences in Aqueous Humor Dynamics Among Chinese and Caucasian Adults. Abstract for the *American Glaucoma Society* 27th Annual Meeting. March 2-5, 2017, Coronado, CA. [Accepted].

**PROFESSIONAL MEMBERSHIPS:**

- American Statistical Association
- International Biometric Society
- International Chinese Statistical Association
- Statistical Society of Canada
- Children's Oncology Group

**INTERNAL SERVICE:**

- Infectious Disease Certificate Committee at UNMC, 2011-2016
- Curriculum Committee in the College of Public Health at UNMC, 2012-2015
- UNMC Graduate Studies Assistantship/Fellowship Competition, Reviewer, 2016
- Scholarship Committee in the College of Public Health at UNMC, 2016

- Student Admission Committee at Department of Biostatistics, SPH, UTHealth, 2016-present
- **Chen, B.** (2016). Pursuing a career & graduate training in Biostatistics. The Hutson Tilttson University, Department of Mathematics**.** October, Austin, Tx.
- **Chen, B.** (2016). Pursuing a career & graduate training in Biostatistics. UT Austin, Department of Mathematics**.** November, Austin, Tx.

**PROCESSIONAL SERVICE AND ACTIVITIES:**

- Committee Member for Pierre Robillard Award (for the best PhD thesis), Statistical Society of Canada, 2009—2010
- Early Career Reviewer (ECR) at the Center for Scientific Review (CSR), National Institute of Health, 2012—2016
- Publications Committee, National Alzheimer's Coordinating Center, 2009—2010
- **Editorial Board Member** of the Journal of Applied Bioinformatics & Computational Biology*,* 2011—present
- **Editorial Board Member** of the *Annals of Biometrics & Biostatistics,* 2013—present
- **Associate Editor** for Biostatistics & Epidemiology, the official journal of International Biometric Society - Chinese Region, 06/2017-Present
- Referee for *Journal of the American Statistical Association*
- Referee for *Biometrics*
- Referee for *Biometrika*
- Referee for *Canadian Journal of Statistics*
- Referee for *Health Services and Outcomes Research Methodology*
- Referee for *Computational Statistics and Data Analysis*
- Referee for *Journal of Statistical Planning and Inference*
- Referee for *Statistics in Medicine*
- Referee for *Journal of Applied Probability and Statistics*
- Referee for *Metrika*
- Referee for *Mathematical Review*
- Referee for *Journal of Multivariate Analysis*
- Referee for *Journal of Mathematics and Statistics*
- Referee for *Science China Mathematics*
- Referee for *Bulletin of the Malaysian Mathematical Sciences Society*
- Referee for *Statistical Methods and Applications*
- Referee for *Journal of Computational and Graphical Statistics (JCGS)*
- Referee for *Journal of Business & Economic Statistics*
- Referee for *Journal of Statistical Computation and Simulation*
- Referee for *Hacettepe Journal of Mathematics and Statistics*
- Referee for *Annals of the Institute of Statistical Mathematics*
- Referee for *Statistics and Probability Letters*
- Referee for *Statistica Sinica*
- Referee for *Sankhya*
- Referee for *Science China Mathematics*
- Referee for *Statistics*

**PRESENTATIONS:**

1. **Chen, B.,** Xiong, X., and Yuan Y. (2007). Case Study II: Growth of Atlantic Herring. *Statistical Society of Canada Conference*. June, St. Johns, Canada.
2. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2007). Inverse Probability Weighted GEE with Auxiliary Progressive Processes. *Statistical Society of Canada Conference*. June, St. Johns, Canada.
3. **Chen, B.,** Wu, L., Chen, Z., and Wang, L. (2008). Effects of Genetic Variation on the Relationship between Diet and Cardiovascular Disease Risk. *Statistical Society of Canada Conference*. June, Ottawa, Canada.
4. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2008). Analysis of Disease Progression via Multi-State Models under a Nonignorable Inspection Process. *Statistical Society of Canada Conference*. June, Ottawa, Canada.
5. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2008). Likelihood Analysis of Joint Marginal and Conditional Models for Longitudinal Categorical Data. *Eastern North American Region (ENAR) Spring Meetings*. Invited talk. March, Arlington, Virginia.
6. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2009). Statistical Methods for Multiple-State Analysis of Incomplete Longitudinal Data. *Statistical Society of Canada Conference*. Invited talk. June, Vancouver, Canada.
7. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2009). Marginal Methods for Longitudinal Data Arising in Clusters with Missing Covariates. *Joint Statistical Meeting*. August, Washington, DC.
8. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2009). Weighted Generalized Estimating Functions for Incomplete Longitudinal Response and Covariate Data. *Emerging Issue in the Analysis of Longitudinal Data, Banff workshop*. Invited talk. August, Banff, Canada.
9. **Chen, B.,** and Thompson, M. (2009). Longitudinal Studies with Missing Response and Missing Covariate: an Application to the ITC4 Survey Study. *XXVth International Methodology Symposium*. Invited talk. October, Ottawa, Canada.
10. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2010). Marginal Method for Multi-level Incomplete Binary Data which are Missing at Random. *Joint Statistical Meeting*. August, Vancouver, Canada.
11. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2010). Weighted Generalized Estimating Functions for Longitudinal Response and Covariate Data which are Missing at Random. *University of Washington*, Invited talk. January, Seattle, Washington.
12. **Chen, B.,** Yi. G. Y., and Cook, R. J. (2010). Weighted Generalized Estimating Functions for Longitudinal Response and Covariate Data which are Missing at Random. *Fred Hutchinson Cancer Research Center*. Invited talk. June, Seattle, Washington.
13. **Chen, B.**, and Zhou. X.H. (2011). Doubly Robust Estimates for Longitudinal Data Analysis with Missing Response and Missing Covariates. *Eastern North American Region (ENAR) Spring Meetings*. Invited talk. March, Miami, Florida.
14. **Chen, B.** (2011). Latest developments on Analysis of Missing Data. *Joint Statistical Meeting*. Invited Session Organizer and Chair. Speakers: Drs. Xiao-Hua Zhou (University of Washington), Grace Yi (university of Waterloo), Ming-Hui Chen (University of Connecticut), Ofer Harel (University of Connecticut). August, Miami, Florida.

15. **Chen, B.** (2011). Doubly Robust Estimates for Longitudinal Data Analysis with Missing Response and Missing Covariates. *University of Nebraska Lincoln.* Invited talk. November, Lincoln, Nebraska.
16. Zhou X.H and **Chen, B.** (2011). Empirical Likelihood-Based Method Using Calibration for Longitudinal Data with Drop-Out. *Joint Statistical Meeting*. August, Miami, Florida.
17. **Chen, B.** (2012). Missing Data and Causal Inference. *Joint Statistical Meeting*, Invited Session Organizer and Chair. Speakers: Drs. Roderick Little (University of Michigan), Donald Rubin (Harvard University), Xiao-Hua Zhou (University of Washington), Fabrizia Mealli, (University of Florence, Italy). August, San Diego, California.
18. **Chen, B.,** Zhou. X.H., and Chan, G. (2012). Pseudo-empirical Likelihood-Based Method Using Calibration for Longitudinal Data with Drop-Out. *International conference and exhibition on Biometrics and Biostatistics*. Invited talk. May, Omaha, Nebraska.
19. **Chen, B.,** and Zhou. X.H. (2012). Doubly Robust Estimates for Longitudinal Data Analysis with Missing Response and Missing Covariates. *Innovations in Design, Analysis, and Dissemination: Frontiers in Biostatistical Methods Symposium*. April, Kansa City, Kansas.
20. **Chen, B.** (2012). Statistical Methods for Multi-State Analysis of Incomplete Longitudinal Data. *University of Nebraska Medical Center*. Invited talk. March, Omaha, Nebraska.
21. **Chen, B.** (2012). Recent developments on Analysis of Missing Data. *The 2012 Joint Biostatistics Symposium*, Invited Session Organizer. Speakers: Drs. Bin Nan (University of Michigan), Bhramar Mukherjee (University of Michigan), Xiao-Hua Zhou (University of Washington), Qihua Wang, (Chinese Academy of Sciences). June, Beijing, China.
22. **Chen, B.,** and Zhou. X.H. (2012). Doubly robust estimates for binary longitudinal data with missing response and missing covariates. *University of Nebraska Medical Center*. Invited talk. September, Omaha, Nebraska.
23. **Chen, B.**, and Qin, J. (2013). Test the reliability of doubly robust estimation with missing response data. *University of Waterloo*. Invited talk. October, Waterloo, Canada.
24. **Chen, B.,** and Qin, J. (2014). Test the reliability of doubly robust estimation with missing response data. *University of Nebraska Medical Center*. Invited talk. September, Omaha, Nebraska.
25. **Chen, B.,** and Qin, J. (2014). A new estimation with minimum trace of asymptotic covariance matrix for incomplete longitudinal data with a surrogate process. Joint Applied Statistics Symposium of International Chinese *Statistical* Association (ICSA) and the Korean International *Statistical* Society (KISS). Invited talk. June, Portland, Oregon.
26. **Chen, B.,** and Qin, J. (2015). Test the reliability of doubly robust estimation with missing response data. *Applied Statistics Symposium of International Chinese Statistical Association (ICSA).* Invited talk. June, Fort Collins, Denver.
27. **Chen, B.**, Li, P., Qin, J. and Yu, T. (2015). Using a monotonic density ratio model to find the asymptotically optimal combination of multiple diagnostic tests. *University of Nebraska-Lincoln*. Invited Talk. September, Lincoln, Nebraska.
28. **Chen, B.**, Li, P., Qin, J. and Yu, T. (2015). Using a monotonic density ratio model to find the asymptotically optimal combination of multiple diagnostic tests. *Union Pacific Company*. Invited Talk. October, Omaha, Nebraska.

29. **Chen, B.**, Li, P., Qin, J. and Yu, T. (2016). Using a monotonic density ratio model to find the asymptotically optimal combination of multiple diagnostic tests. *Applied Statistics Symposium of International Chinese Statistical Association (ICSA).* Invited talk. June, Atlanta, Georgia.
30. **Chen, B.,** and Qin, J. (2016). Test the reliability of doubly robust estimation with missing response data. *UTHealth, SPH, Department of Biostatistics*. October, Houston, Tx.
31. **Chen, B.** (2016). Task shifting of antiretroviral treatment from doctors to primary-care nurses in South Africa (STRETCH): A procedural replication of Fairall, et al. (2012). *HIV Research for Prevention 2016*. October, Chicago, IL.
32. **Chen, B.** (2016). Statistical analysis with missing data. *UT Health, SPH, Department of Biostatistics*. October, Houston, Tx.
33. **Chen, B.,** Qin, J., Yuan, A. (2017). Using the accelerated failure time model to analyze current status data with misclassified covariates. *Life Time Data Science Conference*. Invited Talk. May, UConn, CT.

## TEACHING ACTIVITIES:

### Advisory PhD or DrPH students:

1. Soumitra Bhuyan, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2012-2014. “Provision, cost, and quality of robot-assisted radical prostatectomies in the United States.”
2. Tao Li, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2012-2014. “Hospital cost shifting in the United States.”
3. Jenelle Jacobson, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2012-2014. “Influence of environmental/institutional factors, innovation characteristics, and top manager characteristics that are factors in EBPH implementation.”
4. Chun-Kai Huang, PhD, Division of Physical Therapy Education, School of Allied Health Professions, University of Nebraska Medical Center, 2012-2015. “The feedforward and feedback controls on gait in adults with diabetes**.**”
5. Harpriya Kaur, PhD, Department of Epidemiology, COPH, UNMC 2013-2016. “Human Papillomavirus and its Impact on Vulnerable Populations.”
6. He Zhu, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2014-2015. “The impact of gasoline prices on medical care and costs of motor vehicle injuries.”
7. Li Westman, PhD, Department of Epidemiology, University of Nebraska Medical Center, 2015-2016. Have not started dissertation.
8. Yang Wang, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2014-2016. “Essays on immigration-related disparities in health behavior and health care utilization.”
9. Glen Gilson, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2014-2016. “Environmental Correlates of

Patient-Centered Medical Home Implementation in the United States Military Health System."

10. Kate Trout, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2015-2016. Has not started dissertation.
11. Sankeerth Rampa, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2015-2016. Has not started dissertation.
12. Fang Qiu, PhD, Department of Biostatistics, University of Nebraska Medical Center, 2015-2016. Has not started dissertation.
13. Saber Amin, PhD, Department of Epidemiology, University of Nebraska Medical Center, 2015-2016. Has not started dissertation.
14. Mesnad Almutairi, PhD, Department of Epidemiology, University of Nebraska Medical Center, 2016. "Impact of Rurality on Colorectal Cancer Screening, Staging and Treatment in Privately Insured Population."
15. Jamie Larson, PhD, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2016. Has not started dissertation.
16. Joowon Lee, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2017-present.
17. Shannon Roger, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2017-present.
18. Christina Thi, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2017-present.
19. Eun me Cha, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2017-present

**Advisory MPH or MS students:**

1. Jiali Zheng, MPH, Department of Biostatistics, University of Nebraska Medical Center, 2012-2013. "Association with Nutrients, Specific Food Consumption and Pancreatic Cancer Risk: Results From A Matched Case-Control Study Among Nebraska Population."
2. Shardul Sohani, MPH, Department of Epidemiology, University of Nebraska Medical Center, 2012-2013. "Impact of Receipt of Antiretroviral Therapy (ART) For More Than 2 Years in Relation to Non Infections Co-morbidities (NICMs) (CVD, Diabetes, Hypertension, Liver Disease, and Kidney Disease) in Older HIV-Infected Patients."
3. Sarah Aurit, MPH, Department of Biostatistics, University of Nebraska Medical Center, 2012-2016. "Parkinson's disease and cancer incidence: a review of Nebraska registry data."
4. Najib Murr, MPH, Department of Biostatistics, University of Nebraska Medical Center, 2012-2014. Dropped before starting dissertation.
5. Kerui Xu, MPH, Department of Biostatistics, University of Nebraska Medical Center, 2014-2015. "Investigating the roles of EZH2 and its regulatory genes in peripheral T-cell lymphomas."
6. Lata Nawal, MPH, Department of Biostatistics, University of Nebraska Medical Center, 2014-2015. "Survival trends of Acute Myeloid Leukemia (AML) in the United States: A SEER database Analysis."
7. Emily Kreikemeier, MPH, Department of Epidemiology, University of Nebraska Medical Center, 2014-2015. "Characterization of Invasive Fungal Infections (IFI) in

Immunocompromised Oncology Patients at an Academic Medical Center: Focus on Acute Leukemia."

8. Asserewou Etekpo, MPH, Department of Epidemiology, University of Nebraska Medical Center, 2015. "Difference in MUC4 Expression and Phenotypic Characteristics of Pancreatic Cyst in Comparison to Pancreatic Cancer in Egypt."
9. Bo Kang, MPH, Department of Health Services Research & Administration, University of Nebraska Medical Center, 2016. "The Economic Burden of Hospitalizations due to Chronic Obstructive Pulmonary Disease (COPD) as principal diagnosis in Nebraska."
10. Batool Khattab, MPH, Department of Epidemiology, University of Nebraska Medical Center, 2016. "Epidemiologic Study of Leukemia in Jordan 1996-2011**.**"
11. Molly O'Neil, MS in Epidemiology, University of Texas Health Science Center at Houston, 2017-present. "Environmental Correlates of Food Purchasing Behaviors and Fruit and Vegetable Intake in a Community-Based Sample."
12. Victoria Fleming, MPH, Department of Health Promotion & Behavioral Sciences, University of Texas Health Science Center at Houston, 2017-present.

**Teaching courses:**

| Courses | Dates | Role | Number of students | Student evaluation |
|---|---|---|---|---|
| **University of Texas Health Science Center at Houston (PhD, MPH degrees) 5 is exceptional** | | | | |
| PH 1624 Introduction to SAS Data Management | Summer 2017 | Instructor | 22 | 4.75 |
| **University of Nebraska Medical Center (PhD, MPH degrees) 1 is exceptional** | | | | |
| BIOS 983 Statistical Inference II | Spring 2016 | Instructor | 5 | 1.0 |
| BIOS 824/CPH 654 Survival analysis (on campus and online) | Fall 2015 | Instructor | 23 | 1.4 |
| BIOS 896 Research other than thesis in Biostatistics | Summer 2015 | Instructor | 2 | NA |
| BIOS 825/CPH 655 Correlated data analysis (on campus and online) | Spring 2015 | Instructor | 19 | 2.3 |
| BIOS 896 Research other than thesis in Biostatistics | Spring 2015 | Instructor | 1 | NA |
| BIOS 824/CPH 654 Survival analysis (on campus and online) | Fall 2014 | Instructor | 18 | 1.22 |
| BIOS 896 Research other than thesis in Biostatistics | Fall 2014 | Instructor | 1 | NA |
| BIOS 825/CPH 655 Correlated data analysis (on campus and online) | Spring 2014 | Instructor | 15 | 1.00 |

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|---|---|---|---|---|
| BIOS 824/CPH 654 Survival analysis | Fall 2013 | Instructor | 14 | 1.29 |
| BIOS 825/CPH 655 Correlated data analysis | Spring 2013 | Instructor | 12 | 1.33 |
| BIOS 824/CPH 654 Survival analysis | Fall 2012 | Instructor | 13 | 2.5 |
| BIOS 998 Independent study | Fall 2012 | Instructor | 1 | NA |
| BIOS 998 Independent study | Summer 2012 | Instructor | 1 | NA |
| BIOS 825/CPH 655 Correlated data analysis | Spring 2012 | Instructor | 7 | 2.4 |
| BIOS 824/CPH 654 Survival analysis | Fall 2011 | Instructor | 11 | 1.8 |
| BIOS 998 Independent study | Summer 2011 | Instructor | 1 | NA |
| | | | | |
| Sample size and power analysis for CPH 643/EPI 803 | February 2016 | Lecture | 10 | NA |
| Sensitivity, specificity and ROC analyses in Department of Radiology | May 2012 | Lecture | 26 | NA |
| General overview of statistics in Department of Radiology | May 2012 | Lecture | 26 | NA |
| Sample size and power analysis for EPI 821 | March 2011 | Lecture | 25 | NA |
| | | | | |
| **University of Waterloo** | | | | |
| Probability | Spring 2008 | Instructor | 80 | NA |
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