

## BAOJIANG CHEN

**ADDRESS:** Department of Biostatistics and Data Science, School of Public Health in Austin  
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### EDUCATION:

Ph.D.	Statistics	2008	University of Waterloo, Canada
M.S.	Statistics	2005	Nankai University, China
B.S.	Probability and Statistics	2002	Nankai University, China

### PROFESSIONAL APPOINTMENTS:

2024-Present	Professor, Department of Biostatistics and Data Science, School of Public Health, The University of Texas Health Science Center at Houston
2016-2024	Associate Professor, Department of Biostatistics and Data Science, 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	Adjunct Assistant Professor, Department of Statistics, University of Nebraska-Lincoln
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

### HONORS AND AWARDS:

1. The Award for Excellence in Teaching, UTHealth SPH 2024.

2. The John P. McGovern Award for Outstanding Teaching, UTHealth SPH 2021.
3. Honored to provide a Faculty Address in the Austin Graduation Ceremony, 2021.
4. Crystal Quill Award, UTHealth School of Public Health in Austin, 2020.
5. Recognition of Service, University of Nebraska Medical Center, 2016.
6. College of Public Health Faculty Research Award, University of Nebraska Medical Center, 2015.
7. Pierre Robillard Award for the best PhD thesis in the areas of probability and statistics, Canada, 2009
8. Sprott Scholarship for excelling in the doctoral comprehensive examinations, University of Waterloo, 2008
9. International Biometric Society's Eastern North American Region (ENAR) Distinguished Student Paper Award, 2008
10. Complementary Student Membership of Statistical Society of Canada, 2008
11. Teaching Assistant Award, University of Waterloo, 2007
12. Complementary Student Membership of Statistical Society of Canada, 2007
13. International Doctoral Student Award, University of Waterloo, 2005--2008
14. Statistics and Actuarial Science Chair's Award, University of Waterloo, 2005--2007
15. Grad Merit Award, University of Waterloo, 2006--2007
16. Second class, best Master's thesis of Nankai University, 2005
17. Third class, best Master's thesis of China, 2005
18. 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
19. Outstanding Student of Nankai University, 2002
20. Rank Certificate of Computer Software Engineer approved and issued by Ministry of Information Industry of P. R. China, 2000
21. Nankai University Scholarships, 1999—2005

**CURRENT FUNDING:**

NIH/NIMHHD Hoelscher (PI) 05/17/24-12/31/28  
Co-creating and implementing contextually responsive physical activity interventions with low-income adolescents  
Role: Co-I (10%)

NIH/UT Austin. White (PI) 09/01/23-08/31/28  
Addressing factors related to disparities in vasectomy  
Role: subcontract PI (10%)

NCI/NIH Kelder (PI) 09/01/19-08/31/24  
Middle School Cluster RCT to Evaluate E-cigarette Prevention Program: CATCH My Breath.  
Role: Co-I (10%) \$ 2,025,880.00

NIH/U of Alab. Birm. Gabriel (PI) 07/01/20-08/31/24  
Young adult and midlife transitions in physical activity and sedentary behavior with heart failure risk and progression: Coronary Artery Risk Development in Young Adults (CARDIA).  
Role: subcontract PI (10%) \$ 80,978.0010.

NIH/DHHS(NIEHS) Lanza (PI) 07/01/2022-06/30/2025  
Routes to Environmental Justice: Assessment of Ambient Environmental Exposures for Safe Routes to School Programs  
Role: mentor and investigator \$437,910.00

**PREVIOUS FUNDING:**

NCI/NIH	Harrell (PI)	02/15/19-01/31/24
ENDS Use Trajectories from Adolescence through Young Adulthood: A Longitudinal Study of Risk Factors and Profiles.		
Role: Co-I (20%)	\$ 2,107,451.00	
NCI/NIH	Mantey (PI)	09/01/22-08/31/23
Supplementary of ENDS Use Trajectories from Adolescence through Young Adulthood: A Longitudinal Study of Risk Factors and Profiles.		
Role: Co-I (3%)	\$ 55,791.00	
NCI/NIH	Perry (PI)	11/01/16-08/31/19
Tobacco Center of Regulatory Science on Youth and Young Adults.		
Role: Co-I (20%)	\$ 19,739,033	
NCI/NIH	Perez (PI)	04/01/19-04/30/22
Age of Initiation of Tobacco Products among USA Youth and Young Adults.		
Role: Co-I (12%)	\$ 898, 550.00	
Michael & Susan Dell Center	Chen (PI)	02/01/18-01/31/19
Box-Cox transformation models for SPAN data.		
Role: PI	\$ 4,725	
36-5410-2049-001	Yu (PI)	09/01/16-04/30/17
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	
36-5410-2049-001	Chen (PI)	05/01/16-08/31/16
Task shifting of antiretroviral treatment from doctors to primary-care nurses in South Africa (STRETCH): A procedural replication of Fairall, et al. (2012)		
Role: 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)	07/01/12 – 06/30/17
Gates Foundation Community-Acquired Pneumonia 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 miRNA for 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		
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:**

My methodological research interest lies in missing data issue, longitudinal data analysis, survival analysis, experimental design, transformation models, evaluation of diagnostic test, high-dimensional analysis, and statistical applications. Application areas focus on tobacco control for youth and young adult study, Alzheimer's disease study, physical activity and nutritional study, cancer screening.

**Articles in Refereed Journals** (# indicates my contribution is directly related to my research initiative [Statistical methodology]):

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.**<sup>#</sup>, 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.**<sup>#</sup> 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.**<sup>#</sup>, 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.**<sup>#</sup>, 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.**<sup>#</sup> 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.**<sup>#</sup> 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.**<sup>#</sup> 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.**<sup>#</sup> 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.**<sup>#</sup>. (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.**<sup>#</sup> 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 BABA abutments decrease wound complications and revision surgery. *Laryngoscope*, 124, 989-992. PMID: [24114744](#).
26. **Chen, B.**<sup>#</sup> 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.**<sup>#</sup>, 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.**<sup>#</sup>, 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.**<sup>#</sup>, Li, P., Qin, J. and Yu, T. (2016). 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.**<sup>#</sup> (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  $\alpha$ -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. (2018). Breast Cancer Screening for Patients of Rural Accountable Care Organization Clinics: A Multi-Level Analysis of Barriers and Facilitators. *Journal of Community Health*, 43, 248-258. PMID: [28861654](#).
39. **Chen, B.**<sup>#</sup>, Li, P., Qin, J. (2018). Generalization of Heckman selection model to nonignorable nonresponse using call-back information. *Statistic Sinica*, 28, 1761-1785. No NIH funding.
40. Wang, Y., Wilson, F., Stimpson, J., Wang, H., David, P., **Chen, B.**, Chen, L. W. (2018). Fewer immigrants have preventable emergency department visits in the United States. *The American Journal of Emergency Medicine*, 36, 352-358. PMID: [28826639](#).
41. Wang, H., Qiu, F., Abbey, G., **Chen, B.**, Kim, J., Young, L., Wan, N., Chen, L. (2018). Barriers and Facilitators of Colorectal Cancer Screening for Patients of Rural Accountable Care Organization Clinics: A Multilevel Analysis. *Journal of Rural Health*, 34(2), 202-212. PMID: [28686787](#).
42. Bhatt, V. R., **Chen, B.**, Lee, S. J. (2018). Use of hematopoietic cell transplantation in younger patients with acute myeloid leukemia: A National Cancer Database study. *Bone Marrow Transplantation*, 53(7), 873-879. PMID: [2940302](#).
43. Bhatt, V. R., **Chen, B.**, Gyawali, B., Lee, S. J. (2018). Socioeconomic and health system factors associated with lower utilization of hematopoietic cell transplantation in older patients

with acute myeloid leukemia. *Bone Marrow Transplantation*, 53, 1288-1294. PMID: [29588500](#).

44. Umakanthan, J. M., **Chen, B.**, Gundabolu, K., Bhatt, V. R. (2018). Factors associated with receipt of hematopoietic cell transplantation for acute lymphoblastic leukemia. *Future Oncology*, 14(13), 1253-1260. PMID: [29712491](#).
45. Etekpó, A.\* , Alghawalby, A., Alghawalby, M., Soliman, A., Hablas, A., **Chen, B.**, Batra, S., Soliman, G. (2018). Differences in MUC4 expression in pancreatic cancers and pancreatic cysts in Egypt. *J Carcinog Mutagen*, 9 (312), 2. \***Student**. No NIH funding.
46. Kaur, H., Schimdt-Grimminger, D., **Chen, B.**, Islam, M., Remmenga, S., High, R., Watanabe-Galloway, S. (2018). HPV Prevalence and Its association with Perinatal Outcomes among Singleton Mothers: Analysis of Pregnancy Risk Assessment and Monitoring System (PRAMS) Data, 2004-2011. *Current Women's Health Reviews*, 15, 143-149. No NIH funding.
47. Peng, T\*., **Chen, B.**, Pettee Gabriel, K. (2018). Utilization of Chiropractic Care in U.S. Children and Adolescents: A Cross-Sectional Study of the 2012 National Health Interview Survey. *Journal of Manipulative and Physiological Therapeutics*, 41, 725-733. \***Student**. No NIH funding.
48. Hsu, A., Lum, M. A., Shim, K. S., Frederick, P. J., Morrison, C. D., **Chen, B.**, Lele, S. M., Sheinin, Y. M., Daikoku, T., Dey, S. K., Lenoe, G., Black, A. R., Black, J. D. (2018). Crosstalk between PKC $\alpha$  and PI3K/AKT signaling is tumor suppressive in the endometrium. *Cell Reports*, 24(3) 655-669. PMID: [30021163](#).
49. Cha, E. M.\* , Hoelscher, D. M., Ranjit, N., **Chen, B.**, Gabriel, K. P., Kelder, S. (2018). Effect of Media Use on Adolescent body weight. *Preventing Chronic Disease*, 14, E141. \***Student**. PMID: [30468423](#).
50. Qin, J., Yu, T., Li, P., Liu, H., **Chen, B.**\*\* (2019). Using a monotone single-index model to stabilize the propensity score in missing data problems and causal inference. *Statistics in Medicine*, 38, 1442-1458. PMID: [30566258](#). \***Corresponding author**.
51. **Chen, B.** #, and Alam, A. \* (2019). STRETCHing HIV treatment: a replication study of task shifting in South Africa. *PloS one*, 14, e0206677. \***Student**. PMID: [30958829](#).
52. Lee, J.\* , **Chen, B.**, Kohl, H. W., Barlow, C. E., Lee, C., Radford, N. B., Defina, L. F., Gabriel, K. P. (2019). The Association of midlife cardiorespiratory fitness with later life carotid atherosclerosis: Cooper Center Longitudinal Study. *Atherosclerosis*, 282, 137-142. PMID: [30731286](#). \***Student**.
53. Fan, S., Guo, T., **Chen, B.**, Xiong, J., Havens, S., Gulati, V., Toris, B. (2019). Differences in Ocular Biometrics and Aqueous Humor Dynamics Between Chinese and Caucasian Adults. *British Journal of Ophthalmology*, bjophthalmol-2018. PMID: [30894342](#).
54. Dhakal, P., **Chen, B.**, Giri, S., Armitage, J. O., Bhatt, V. R. (2019). Effects of center type and socioeconomic factors on early mortality and overall survival of diffuse large B-cell lymphoma. *Future Oncol*, 15, 2113-2124. PMID: [31144521](#).
55. Marsden, D. \* , Loukas, A., **Chen, B.**, Perry, C., Wilkinson, A. V. (2019). Associations between frequency of cigarette and alternative tobacco product use and depressive symptoms: a longitudinal study of young adults. *Addictive Behaviors*, 99:106078. PMCID: PMC6791767. \***Student**.
56. Lee, J.\* , **Chen, B.**, Kohl, H. W., Barlow, C. E., Lee, C., Radford, N. B., Defina, L. F., Gabriel, K. P. (2019). The Association of Physical Activity with Carotid Intima Media Thickness (IMT) in an Older Population: Cooper Center Longitudinal Study. *Journal of Aging and Physical Activity*, Dec 3: 1-7. PMCID: PMC7266725. \***Student**.
57. Lee, J.\* , **Chen, B.**, Kohl, H. W., Barlow, C. E., Lee, C., Radford, N. B., Defina, L. F., Gabriel, K. P. (2019). The association of self-reported muscle strengthening activities with carotid



- intima media thickness (IMT) in an older adults: Cooper Center Longitudinal Study. *Journal of Aging and Physical Activity*, Dec 6: 1-6. \*Student. PMID: 31810061.
58. Pérez, A., Bluestein, M., **Chen, B.**, Perry, C.L., Harrell, M.B. (2020). Prospectively Estimating The Age Of Initiation Of E-Cigarettes Among U.S. Youth: Findings From The Population Assessment Of Tobacco And Health (PATH) Study, 2013-2017. *Journal of Biometrics and Biostatistics*. DOI: 10.37421/jbmbms.2020.11.442. PMID: in process.
  59. Rogers, S. M.\*, Loukas, A., Harrell, M. B., **Chen, B.**, Springer, A., Perry, C. L. (2021). Multidirectional pathways of tobacco and marijuana use, including comorbid use, among young adults (aged 18–25 years) in Texas: A six-wave cross-lagged model. *Journal of Adolescent Health*, 68, 116-122. PMID: PMC7755747. \*Student.
  60. Sumbe, A.\*, Clendennen, S. L., Opara, S. C., Jackson, C. D., **Chen, B.**, Wilkinson, A. V., Harrell, M. B. (2021). ENDS device type and initiation of combustible tobacco products among adolescents. *Nicotine & Tobacco Research*, 23, 479-486. PMID: PMC7885774. \*Student.
  61. **Chen, B.**#, Yuan, A. and Yi, G. (2020). Variable Selection for Proportional Hazards Models with High Dimensional Covariates subject to Measurement Error. *Canadian Journal of Statistics*, <https://doi.org/10.1002/cjs.11568>. No NIH funding.
  62. Mantey, D. S.\*, Harrell, M. B., **Chen, B.**, Kelder, S. H., Perry, C., Loukas, A. (2021). A Longitudinal Examination of Behavioral Transitions among Young Adult Menthol and Non-Menthol Cigarette Smokers Using a Three-State Markov Model. *Nicotine Tob Res*, 23, 1047-1054. PMID: PMC8150126. \*Student.
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142. Zhang, Y., DeFina, L. F., Leonard, D., **Chen, B.**, Hebert, E. T., Kohl, H. W. (2024). Cross-sectional associations of muscle-strengthening activity and cognitive function in community-dwelling middle-aged and older adults.
143. Kaperera, O., **Chen, B.**, Almandoz, J. P., Byrd-Williams, C., Messiah, S. (2024). Social Determinants of Health as Mediators of Racial and Ethnicity Disparities in Preeclampsia: Insights from the All of Us Program. *Journal of the American Medical Informatics Association*.
144. Kaperera, O., **Chen, B.**, Almandoz, J. P., Byrd-Williams, C., Messiah, S. (2024). Association of Discrimination and Preeclampsia among Pregnant Participants in the All of Us Study. *Obstetrics & Gynecology*.
145. Dooley, E. E., Bowling, C. B., Hornikel, B., **Chen, B.**, Badon, S. E., Lewis, C. E., Pettee Gabriel, K. (2024). Association of Multimorbidity Trajectories from Early Adulthood to Midlife with Physical Activity and Sedentary Behaviors. *American Journal of Preventive Medicine*.
146. Hunt, E.T., Brazendale, K., De Moraes, A., Nascimento-Ferreira, Pfladderer, C. D., Izabel, S., Dooley, E., **Chen, B.**, Fernandez, A., Hoelscher, D. M., Tapert, S. (2024). Examining the impact of early life adversity and adolescent sleep and outcomes: findings from the ABCD study.
147. Tamí-Maury, I., Afolayan, O., **Chen, B.**, Reininger, B. (2024). Smoking trends among people at risk for or living with HIV across the Texas border region: Insights from the BRFSS Survey (2016-2021).
148. Lanza, K., Allison, B., **Chen, B.**, Wilson, P. S., Hunt, E. T., Burford, K. G., Zhang, Y., Ganzar, L. A., Keitt, T. H. (2024). Ambient environmental exposures while cycling on a vegetated trail versus the road.

#### **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.
2. Zhang, C., Maroufy, **Chen, B.**, Wu, H. (2020). Missing Data Issues in EHR.
3. Li, H., **Chen, B.**, Chen, Z., Shi, L., Su, D. (2022). *Communication Research on Health Disparities and Coping Strategies in COVID-19 Related Crises* (London: Routledge, 2024). **ISBN:** 978-1-032-62447-1.

### 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.

### Abstracts published:

1. 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.
2. 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.
3. 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 (PKC $\alpha$ ) 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.
4. 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).
5. 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.
6. 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).
7. 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).
8. 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).
9. 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.



10. 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.
11. 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.
12. Toris, C., **Chen, B.**, Xiong, J., Fan, S., Wang, F., Guo, T. (2017). 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.
13. Peng, T., **Chen, B.**, Pettee Gabriel, K. (2018). Utilization and chiropractic care in U.S. children and adolescents: results from the 2012 National Health Interview Survey (NHIS). 2018 Association of Chiropractic Colleges Research Annual Conference (ACC-RAC). Dallas, TX. March 8-10, 2018.
14. Peng, T., **Chen, B.**, Pettee Gabriel, K. (2018). Reasons and referral sources for chiropractic utilization in U.S. children and adolescents: results from the 2012 National Health Interview Survey (NHIS). 2018 Association of Chiropractic Colleges Research Annual Conference (ACC-RAC). Dallas, TX. March 8-10, 2018.
15. Loukas, A., Marsden, D.G., Marti, C.M., **Chen, B.**, Wilkinson, A.V., Harrell, M.B., & Perry, C.L (February, 2019). ENDS use predicts longitudinal transitions in cigarette smoking across 2.5 years among young adults. The 2019 Society for Research on Nicotine & Tobacco.
16. Peng, T., **Chen, B.**, Brown, S., Pettee Gabriel, K. (March 2019). National trends in the use and expenditure of chiropractic therapy in U.S. children and adolescents: data from the 2007-2016 Medical Expenditure Panel Survey. World Federation of Chiropractic (WFC) - European Chiropractic Union (ECU) conference. Berlin, Germany.
17. Harrell, M. B., Jackson, C., **Chen, B.**, Loukas, A. L., Perry, C. L. (February, 2019). Stable trajectories of ENDS use across adolescence and their relationship with cigarette smoking. The 2019 Society for Research on Nicotine & Tobacco Annual Meeting.
18. **Chen, B.**, Sterling, K., Bluestein, M., Harrell, M., Perry, C. L., Perez, A. (March, 2020). Age of initiation of traditional cigars, filtered cigars and/or cigarillos among youth in the United States 2013-2016. The 2020 Society for Research on Nicotine & Tobacco Annual Meeting.
19. Perez, A., Bluestein, M., **Chen, B.**, Perry, C. L., Harrell, M. (July, 2020). The association of exposure to and engagement with tobacco-related social media content and the age of initiation of e-cigarettes among USA adolescents in 2013-2017. The 2020 International Biometric Conferences.
20. Bluestein, M., **Chen, B.**, Perry, C. L., Perez, A. (March, 2020). Methodology for prospectively estimating age of initiation of E-cigarettes using interval censoring. The 2020 Society for Research on Nicotine & Tobacco Annual Meeting.
21. Rangwala, S., Clendennen, S. L., Case, K. R., Sumbe, A., **Chen, B.**, Wilkinson, A. V., Harrell, M. B. (March, 2020). Tobacco and marijuana use among young adult: a qualitative approach to understanding EVALI risk. The 2020 Society for Research on Nicotine & Tobacco Annual Meeting.
22. Harrell, M. B., **Chen, B.**, Clendennen, S. L., Sumbe, A., Rangwala, S., Wilkinson, A. V. (March, 2020). Tobacco and marijuana use among young adult: a qualitative approach to understanding EVALI risk. The 2020 Society for Research on Nicotine & Tobacco Annual Meeting.
23. Harrell, M. B., Clendennen, S. L., Sumbe, A., **Chen, B.**, Perez, A., Pasch, K., Loukas, A., Wilkinson, A. V., Perry, C. L. (February, 2021). The Texas Adolescent Tobacco Marketing and Surveillance System (TATAMS): A "Rapid-Response" Approach to Measuring E-cigarette and Other Tobacco Use among Young People. The 2021 Society for Research on Nicotine & Tobacco Annual Meeting.
24. Sumbe, A., Wilkinson, A. V., **Chen, B.**, Clendennen, S. L., Harrell, M. B. (February, 2021). Association of Comorbidity of Anxiety and Depressive Symptoms with Tobacco and

- Marijuana Use Among Texas Youth. The 2021 Society for Research on Nicotine & Tobacco Annual Meeting.
25. Bluestein, M. A., **Chen, B.**, Harrell, M. B., Sterling, K., Kuk, A., Perez, A. (February, 2021). The association of Internalizing and Externalizing Problems on the Age of E-cigarette Initiation in the Population Assessment of Tobacco and Health (PATH) USA Youth (2013-2017). The 2021 Society for Research on Nicotine & Tobacco Annual Meeting.
  26. Penedo, E, Bluestein, M., **Chen, B.**, Harrell, M. B., Perez, A. (February, 2021). Associations between total nicotine equivalents biomarker urine levels and nicotine dependence scores for exclusive past 30-day E-cigarette users: findings from the Population Assessment of Tobacco and Health (PATH) study wave 1 (2013-2014) data. The 2021 Society for Research on Nicotine & Tobacco Annual Meeting.
  27. **Chen, B.**, Sterling K., Bluestein, M., Harrell, M. B., Penedo, E., Perez, A. (February, 2021). Age of initiation of cigarillos among young adult in the United States 2013-2017. The 2021 Society for Research on Nicotine & Tobacco Annual Meeting.
  28. Perez, A., Kuk, A. E., **Chen, B.**, Bluestein, M. A., Harrell, M. B., Perry, C. L. (February, 2021). Estimation of the age of first report of hookah use among adolescents in the USA using the Population Assessment of Tobacco and Health (PATH) study waves 1-4 (2013-2017). The 2021 Society for Research on Nicotine & Tobacco Annual Meeting.
  29. Tami-Maury, I., **Chen, B.**, Sumbe, A., Harrell, M. B. (February, 2021). Differences in electronic nicotine delivery systems initiation among adolescents transitioning into young adulthood by sexual orientation. The 2021 Society for Research on Nicotine & Tobacco Annual Meeting.
  30. Bluestein, M. A., Harrell, M. B., **Chen, B.**, Perez, A. (2022). Internalizing and Externalizing Problems on the Age of E-cigarette Initiation in the Population Assessment of Tobacco and Health (PATH) USA Youth (2013-2017). The 2022 Society for Research on Nicotine & Tobacco Annual Meeting.
  31. Bluestein, M. A., **Chen, B.**, Kuk, A. E., Harrell, M. B., Sterling, K., Perez, A. (2022). Perceptions of harmfulness and addictiveness of e-cigarette on the age of e-cigarette initiation in the Population Assessment of Tobacco and Health youth (2013-2017). ). The 2022 Society for Research on Nicotine & Tobacco Annual Meeting.
  32. Perez, A., Kuk, A. E., Bluestein, M. A, Harrell, M. B., **Chen, B.** (2022). Perceptions of harm and addictiveness of Hookah on the age of initiation of Hookah use among USA youth. The 2022 Society for Research on Nicotine & Tobacco Annual Meeting.
  33. **Chen, B.**, Spells. C., Bluestein, M. A., Kuk, A. E., Harrell, M. B., Atem, F., Perez, A. (2022). Perceptions of harm and addiction on the age of cigar use among youth: Findings from the Population Assessment of Tobacco and Health youth (2013-2017). The 2022 Society for Research on Nicotine & Tobacco Annual Meeting.
  34. Harrell, M.B., **Chen, B.**, Clendennen, S. L., Sumbe, A., Perez, A., Case, K. R., Wilkinson, A. V., Loukas, A. (2022). Differences in cigarette smoking and other combustible tobacco use by patterns of ENDS use across adolescence. The 2022 Society for Research on Nicotine & Tobacco Annual Meeting.
  35. Atem, F., Bluestein, M.A., Harrell, M. B., **Chen, B.**, Messiah, S., Kuk, A. E., Sterling, K., Spells, C. E., Perez, A. (2021). Precise estimation for the age of initiation of tobacco use among US youth: Findings from the Population Assessment of Tobacco and Health (PATH) study, 2013-2017. The 2022 Society for Research on Nicotine & Tobacco Annual Meeting.
  36. Wen, M., Su, D., Shi, L., Zhang, D., Li, Y., **Chen, B.**, Chen, Z., Chen, L., Li, J., Li, H., Han, X. (2022). Racial and ethnic disparities in lifestyle changes during the COVID-19 pandemic: Exploring the socioeconomic and psychosocial mechanisms. ASCO annual meeting. June, 2022, Chicago.
  37. Peng, T., **Chen, B.**, Brown, H.S., Douphrate, D., Janak, J., & Pettee Gabriel, K. National trends in the utilization and expenditure of chiropractic care in U.S. adults: data from the

- 2007-2016 Medical Expenditure Panel Survey. American Public Health Association 2022 Annual Meeting. Boston, MA. November 6th-9th, 2022.
38. Bataineh, B.S., Wilkinson, A., **Chen, B.**, Harrell, M.B., Clendennen, S. L. (2022). Depression and the age of initiation of tobacco and marijuana use in Texas youth population. The 2023 Society for Research on Nicotine & Tobacco Annual Meeting.
  39. Sumbe, A., Suchting, R., **Chen, B.**, Wilkinson, A., Bataineh, B.S., Clendennen, S. L., Harrell, M.B., (2022). Examining the role of metacognitive factors in predicting past 30-day e-cigarette use. The 2023 Society for Research on Nicotine & Tobacco Annual Meeting.
  40. Sumbe, A., Suchting, R., **Chen, B.**, Wilkinson, A., Bataineh, B.S., Clendennen, S. L., Harrell, M.B., (2022). Examining properties of metacognition about smoking questionnaire among young e-cigarette users. The 2023 Society for Research on Nicotine & Tobacco Annual Meeting.
  41. Peng T., **Chen, B.**, Brown, H., Douphrate, D., Janak, J., & Pettee Gabriel, K. (2022). Predictors of Utilization Frequency and Expenditure Level of Chiropractic Care in US Adults: Data from the Medical Expenditure Panel Survey. Association of Chiropractic Colleges – Research Agenda Conference. New Orleans, Louisiana. March 24<sup>th</sup> – 25<sup>th</sup>, 2023.
  42. Lanza, K., **Chen, B.**, Bernard, P., Vanos, J. (2022). Thermal perception, physical activity, and transit use of adults in a humid subtropical climate. ISBNPA, Uppsala, Sweden, June 14-17, 2023.
  43. Li, H., **Chen, B.**, Zhang, D., Chen, A., Chen, L., Wen, M., Han, X., Li, J., Li, Y., Su, D. (2023). Trust in Media as the COVID-19 Information Source in the U.S. The 73rd Annual International Communication Association Conference, Reclaiming Authenticity in Communication, 25-29 May 2023, Toronto, Ontario, Canada.
  44. Bataineh, B. S., Wilkinson, A. V., Sumbe, A., Clendennen, S. L., **Chen, B.**, Messiah, S. E., Harrell, M. B. (2023). Anxiety as a predictor of the age of initiation of tobacco and marijuana use in adolescents and young adults. The 2023 Society for Research on Nicotine & Tobacco Annual Meeting.
  45. Bataineh, B. S., Wilkinson, A. V., Sumbe, A., Clendennen, S. L., **Chen, B.**, Messiah, S. E., Harrell, M. B. (2023). The Association Between Tobacco and Cannabis Use and the Age of Onset of Depression and Anxiety Symptoms Among Adolescents and Young Adults. The 2023 Society for Research on Nicotine & Tobacco Annual Meeting.
  46. Li, H., **Chen, B.**, Wen, M., Su, D. (2023). Racialization of Immigrants in the U.S.: Analysis of a National Survey. ICSA 2023 meeting.
  47. Wilkinson, A.V., **Chen, B.**, Swann, A. C., Graham, D. G., Kosten, T. R., Mantey, D. S., Bataineh, B., Harrell, M. B. (2023). Nicotine use and impulsivity: Direct influences on suicidal ideation. The 2024 Society for Research on Nicotine & Tobacco Annual Meeting.
  48. Adjei, A., **Chen, B.**, Mantey, D. S., Wilkinson, A. V., Harrell, M. B. (2024). Symptoms of Nicotine Dependence by E-cigarette and Cigarette Use Behavior and Brand: A Population-Based, Nationally Representative Cross-Sectional Study. The 2024 Society for Research on Nicotine & Tobacco Annual Meeting. Edinburgh, Scotland, March 2024
  49. Adjei, A., Mantey, D. S., **Chen, B.**, Wilkinson, A. V., Harrell, M. B. (2024). Time to first report of nicotine dependence symptoms among adolescent who use e-cigarettes and cigarettes in the United States: a nationally representative cohort study, PATH (Waves 1-5; 2013-2019). The 2024 Society for Research on Nicotine & Tobacco Annual Meeting. Edinburgh, Scotland, March 2024.
  50. Hornikel, B., Dooley, E. E., Bowling, C. B., **Chen, B.**, Martinez-Amezcuca, P., Jacobs, D. R., Carnethon, M., Sternfeld, B., Lewis, C. E., Sidney, S., Palta, P., Pettee Gabriel, K. (2024). Developing and Validating VO<sub>2</sub> Prediction from 6-Minute Walk Test (6MWT) and Associating with CVD Risk Factors: The CARDIA Study. Moderated poster presentation accepted at AHA EPI | Lifestyle 2024 Scientific Sessions, March 18-March 21, Chicago, IL.
  51. Dooley, E. E., Bowling, C. B., **Chen, B.**, Hornikel, B., Badon, S. E., Schreiner, P. J., Carnethon, M., Lewis, C. E., Pettee Gabriel, K. (2024). Multimorbidity Trajectories from Early

Adulthood and Current and Subsequent Accelerometer-Measured Sedentary and Physical Activity Behaviors in Midlife: Coronary Artery Risk Development in Young Adults (CARDIA) Study. Moderated poster presentation accepted at AHA EPI | Lifestyle 2024 Scientific Sessions, March 18-March 21, Chicago, IL.

52. Zhang, Y., DeFina, L. F., Leonard, D., **Chen, B.**, Hebert, E. T., Kohl, H. W. (2024). Associations of physical activity, sedentary behavior, and sleep patterns with cognitive function among middle-aged and older community-dwelling adults: A latent class analysis. International Society of Behavioral Nutrition and Physical Activity (ISBNPA) 2024.
53. Omega-Njemnobi, O., Mantey, D., **Chen, B.**, Springer, A., Kelder, S. (2024). An evidence-based e-cigarette prevention program (Catch My Breath): lesson learned implementing an RCT in Texas middle schools during the pandemic. The 2024 Society for Research on Nicotine & Tobacco Annual Meeting.
54. Yue, Z., **Chen, B.**, Cofer, H., Jensen-Morgan, A., McMichael, C., Salinas, J., Vargas, S., Young, C., & Lanza, K. (2024). Racial and ethnic disparities in urban trail use in Central Texas. American Public Health Association Annual Meeting. Minneapolis, MN.
55. Hunt, E.T., Brazendale, K., De Moraes, Augusto Cesar., Pfladderer, C.D., Dooley, E.E., **Chen, B.**, Fernandez, A., Hoelscher, DM., & Tapert, S. (2024). Navigating Adversity: Understanding its Influence on Adolescent Sleep and Cognitive Performance. International Society of Behavioral Nutrition and Physical Activity Conference 2024, Omaha, Nebraska.
56. Thomas, P. B., Mantey, D. S., Hebert, E. T., **Chen, B.**, Wilkinson, A. V., Harrell, M. B. (2024). Examining Racial and Ethnic Heterogeneity in Symptoms of Depression and Anxiety among Young Adults: A Machine Learning Approach. American Public Health Association Annual Meeting. Minneapolis, MN. ~~~~~
57. Clendennen SL, Mantey DS, Springer AE, **Chen B**, Omega-Njemnobi O, Garza P, Kelder SH. (2025). E-cigarette Information Exposure and Engagement on Social Media and Subsequent E-cigarette Use Among Texas Middle School Students. *Submitted to: SRNT 2025.*
58. Gabriel, K. P., Hornikel, B., Dooley E. E., **Chen, B.**, Badon, S., Bhatt, A., Carnethon, M., Jacobs, D., Khan, S., Lima, J., Reis, J., Schreiner, P., Shikany, J., Sidney, S., Whitaker, K., Lewis, C. E., Sternfeld, B. (2024). Associations of accelerometer-determined sedentary and physical activity (PA) behaviors with heart failure (HF) biomarkers during the midlife transition: Coronary Artery Risk Development in Young Adults (CARDIA). Submitted to AHA EPI | Lifestyle meeting.
59. Salvo, D., Ganzar, L. A., Springer, A., Hunt, E., Smith, J., Karner, A., **Chen, B.**, Hoelscher, D. (2024). Co-creating and implementing contextually responsive physical activity interventions with low-income adolescents: the Active Middle School Communities Study. Submitted to Active Living Conference 2025.

#### **PROFESSIONAL MEMBERSHIPS:**

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

#### **INTERNAL SERVICE:**

- University of Texas Health Center at Houston (UTHealth)
  - Student Admission Committee at Department of Biostatistics, SPH, UTHealth, 2016-present.
  - Methodological Research Committee at Department of Biostatistics and Data Science, SPH, UTHealth 2017-present.
  - Collaboration and Consulting Committee at Department of Biostatistics and Data Science, SPH, UTHealth 2019-present.
  - SPH Award Committee, SPH, UTHealth 2021-present.
  - SPH Austin Faculty Search Committee, 2023-2024
  - The 55th Department Anniversary Celebration Committee, 2023-present
  - Three-year review committee member, Department of HPBS, 2023-2024.
  - **Chen, B.** (2016). Promoting Master and Doctoral program in Biostatistics (Student recruitment). University of Texas at Austin, Department of Mathematics. November, Austin, Tx.
  - **Chen, B.** (2017). Promoting Master and Doctoral program in Biostatistics (Student recruitment). The Huston-Tillotson University, Department of Mathematics. October, Austin, Tx.
  - **Chen, B.** (2018). Student recruitment service in the Huston-Tillotson University's Graduate Fair. October, Austin, Tx.
  - Austin Campus Scholarship review, SPH, UTHealth, 2021-2022.
  - Faculty Council Representative of Austin Campus at SPH, UTHealth 2019-2023.
  - Seminar Coordinator, Department of Biostatistics and Data Sciences, 2022-2023.
- University of Nebraska Medical Center (UNMC)
  - 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

## PROFESSIONAL SERVICE AND ACTIVITIES:

- Scientific reviewer, 2024 HCRT peer review panel, NIH.
- Scientific reviewer, 2024 Congressionally Directed Medical Research Programs (CDMRP) peer review panel, DoD. [2 panel]
- Scientific reviewer, 2023 Congressionally Directed Medical Research Programs (CDMRP) peer review panel, DoD. [6 panels]
- Tenure reviewer, Clemson University, 2022.
- Scientific reviewer, 2022 Congressionally Directed Medical Research Programs (CDMRP) peer review panel, DoD. [2 panels]
- Program Committee Member for International Chinese Statistical Association's Symposium, 2019-2020.
- Austin Site Lead for 2019 StatFest, American Statistical Association.
- Committee Member for Pierre Robillard Award (for the best PhD thesis), Statistical Society of Canada, 2009—2010
- 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*, *Biometrics*, *Biometrika*, *Canadian Journal of Statistics*, *Health Services and Outcomes Research Methodology*,

*Computational Statistics and Data Analysis, Journal of Statistical Planning and Inference, Statistics in Medicine, Journal of Applied Probability and Statistics, Metrika, Mathematical Review, Journal of Multivariate Analysis, Journal of Mathematics and Statistics, Science China Mathematics, Bulletin of the Malaysian Mathematical Sciences Society, Statistical Methods and Applications, Journal of Computational and Graphical Statistics (JCGS), Journal of Business & Economic Statistics, Journal of Statistical Computation and Simulation, Hacettepe Journal of Mathematics and Statistics, Annals of the Institute of Statistical Mathematics, Statistics and Probability Letters, Statistica Sinica, Sankhya, Science China Mathematics, Statistics, Survey Methodology, Australia and New Zealand Journal of Statistics, Statistics and its Interface, Journal of Applied Statistics, Journal of Statistical Computation and Simulation*

## **INVITED TALKS AND PRESENTATIONS:**

### **INVITED TALKS (as a presenter)**

1. **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.
2. **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.
3. **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.
4. **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.
5. **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.
6. **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.
7. **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.
8. **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.
9. **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.
10. **Chen, B.** (2012). Statistical Methods for Multi-State Analysis of Incomplete Longitudinal Data. *University of Nebraska Medical Center*. Invited talk. March, Omaha, Nebraska.
11. **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.
12. **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.
13. **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.

14. **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.
15. **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.
16. **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.
17. **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.
18. **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.
19. **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*. Invited Talk. October, Chicago, IL.
20. **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.
21. **Chen, B.** (2017). Task shifting of antiretroviral treatment from doctors to primary care nurses in South Africa (STRETCH): a pragmatic parallel cluster-randomised trial. 3ie Research Transparency Event, Research Transparency & Replication – HIV Prevention & Treatment. Invited Talk. November 2017, Washington DC.
22. **Chen, B.** (2018). Generalization of Heckman selection model to nonignorable nonresponse using call-back information. The 2<sup>nd</sup> international conference on Economics and Statistics. Invited Talk. June, Hongkong, China.
23. **Chen, B.** (2018). Statistical Methods for Multi-State Analysis of Incomplete Longitudinal Data. *University of Texas at Austin*. Invited talk. December, Austin, Texas.
24. **Chen, B.** (2020). Variable Selection for Proportional Hazards Models with High Dimensional Covariates subject to Measurement Error. *ICSA 2020 Applied Statistics Symposium*. Invited talk. December, Houston, Texas.
25. **Chen, B.** (2020). Variable Selection for Proportional Hazards Models with High Dimensional Covariates subject to Measurement Error. *Joint Statistical Meeting*. Invited talk. August, Philadelphia, PA.
26. **Chen, B.**, Li, P., Qin, J. and Yu, T. (2020). Using a monotonic density ratio model to find the asymptotically optimal combination of multiple diagnostic tests. *University of North Carolina Greensboro*. Invited talk. September, Greensboro, North Carolina.
27. **Chen, B.**, Yuan, A. and Qin, J. (2021). Pool adjacent violators algorithm assisted learning with applications in estimation optimal individualized treatment regimes. *14th International Conference of the ERCIM WG on Computational and Methodological Statistics, 15th International Conference on Computational and Financial Econometrics*. Invited talk. December, King's College London, UK.
28. **Chen, B.**, Yuan, A. and Qin, J. (2022). Pool adjacent violators algorithm assisted learning with applications in estimation optimal individualized treatment regimes. *Joint Statistical Meeting*. August, Washington DC.
29. **Chen, B.**, Yuan, A. and Qin, J. (2022). A Calibration method to stabilize the estimation in missing data and causal inference. *15th International Conference of the ERCIM WG on Computational and Methodological Statistics, 16th International Conference on*

*Computational and Financial Econometrics*. Invited talk. December, King's College London, UK.

30. **Chen, B.** (2024). Maximum profile binomial likelihood estimation for the semiparametric Box–Cox power transformation model. *The ICASA 2024 Applied Statistics Symposium*. June 2024, Nashville.

#### **OTHER TALKS (as a presenter) AND MEEGING ORIGANIZATIONS**

31. **Chen, B.**, Xiong, X., and Yuan Y. (2007). Case Study II: Growth of Atlantic Herring. *Statistical Society of Canada Conference*. June, St. Johns, Canada.
32. **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.
33. **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.
34. **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.
35. **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.
36. **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.
37. **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.
38. 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.
39. **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.
40. **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.
41. **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.
42. **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.
43. **Chen, B.** (2016). Statistical analysis with missing data. *UT Health, SPH, Department of Biostatistics*. October, Houston, Tx.
44. **Chen, B.** (2018). Analysis of Complex Data in Biostatistics. *International Biometrics Society-China symposium*. Invited Session Organizer. Speakers: Drs. Peisong Hang (University of Michigan), Hua Shen (University of Calgary), Zhigang Li (University of Dartmouth), Ying Yan (Sun Yat-sen University). July, Guangzhou, China.
45. **Chen, B.** (2019). Recent advances in statistical methods for complex data. *The 3<sup>rd</sup> international conference on Economics and Statistics*. Invited Session Organizer. Speakers:



- Dr. Rui Wang (Harvard University), Dr. Tao Yu (University of Singapore), Chunlin Wang (Xiamen University), Dr. Alex Wong (Hong Kong Polytechnic University). June, Taiwan.
46. **Chen, B.** (2020). Recent advances in statistical methods for missing data, measurement error and biased sampling. *The ICSA 2020 Applied Statistics Symposium*. Invited Session Organizer. Speakers: Dr. Ming-Hui Chen (University of Connecticut), Dr. Michael Daniels (University of Florida), Paul Rathouz (University of Texas at Austin), Dr. Baojiang Chen (University of Texas Health Science Center at Houston). May 2020, Houston.
  47. **Chen, B.** (2020). Recent development in Semiparametric regression analysis. *The ICSA 2020 Applied Statistics Symposium*. Invited Session Organizer and Chair. Speakers: Dr. Ao Yuan (Georgetown University), Dr. Rui Wang (Harvard University), Lihui Zhao (Northwestern University), Dr. Suojin Wang (Texas A&M University). May 2020, Houston.
  60. **Chen, B.**, Spell, C., Bluestein, M. A., Kuk, A. E., Harrell, M. B., Atem, F., Perez, A. (2022). Perceptions of harm and addiction on the age of cigar use among youth: Findings from the Population Assessment of Tobacco and Health youth (2013-2017). The 2022 Society for Research on Nicotine & Tobacco Annual Meeting.
  61. Lopes, S., Zhang, D., Kalbaugh, C., Rennert, L., Su, D., Chen, L., Li, J., **Chen, B.**, Li, H., Chen, Z., Han, X., Shi, L. (2022). Does Racial Discrimination Reduce Mask Wearing, Social Distancing and Handwashing during the Covid-19 Pandemic? The 2022 ARM poster.
  62. **Chen, B.** (2022). Recent advances in statistical methods for missing data, measurement error and biased sampling. *The 15th International Conference of the ERCIM WG on Computational and Methodological Statistics, 16th International Conference on Computational and Financial Econometrics*. Invited Session Organizer. Speakers: Dr. Li-Pang Chen (National Chenchi University, Taiwan), Dr. Michael Daniels (University of Florida), Dr. Jiwei Zhao (University of Wisconsin), Dr. Baojiang Chen (University of Texas Health Science Center at Houston). December 2022, King's College London, UK.

## 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, 2017-2018. "Associations of physical activity behaviors and cardiovascular fitness with carotid atherosclerosis: Cooper Center Longitudinal Study."
17. Shannon Roger, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2017-2019, "Big Tobacco. Big Marijuana? Longitudinal Trends and Multi-Directional Tobacco and Marijuana Use among Youth and Young Adults in Texas."
18. Christina Thi, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2017-2019. "Nutritional quality of food at a food pantry in Dallas, Texas: trends in selection and inventory, operations-related determinants, and client perspectives."
19. Eun me Cha, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2017-2018. "Factors affecting food intake and BMI in adolescents using the social-ecological model."
20. Leixin Xia\*, PhD in Biostatistics, University of Texas Health Science Center at Houston, 2017-2021. "Bayesian analysis of drift fractional Brownian motion for monitoring clinical trials". \*Advisee.
21. Trent Peng\*, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2018-2022. "Expenditure and utilization of chiropractic care in the united states: trends, patterns, and determinants of use". \*Advisee.
22. Christine Jovanovic, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2019-2020. "The intersection of diet, health and the environment: plant based diets and public health".
23. Dale Mantey, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2020-2020. "Characterizing flavors and tobacco use behaviors: a longitudinal examination of youth and young adults in Texas".
24. Susan Parker, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2021-present, "Cervical Cancer Screening and Primary Care Attendance in the COVID Era: Who is Falling Through the Cracks in a Safety-Net Healthcare System?"
25. Sitara Weerakoon, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2021-2022. "Effect of in utero polysubstance exposure on anthropometric and cardiovascular health outcomes in ethnically diverse adolescents".
26. Amelia Roebuck, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2021-2023. "Lifestyle behaviors before and after diagnosis of type 2 diabetes: findings from the nurses' health studies".

27. Aslesha Sumbe, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2021-2022. "Vaping ABCs: examining affective, behavioral, and cognitive factor associated with e-cigarette use among youth and young adults".
28. Bara Bataineh, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2021-2022. "The Bi-Directional Association Between Tobacco, Marijuana, and Mental Health Among Youth Emerging into Young Adulthood".
29. Yuzi Zhang, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2022-2023. "Association Between Physical Activity, Cognitive Function, and Dementia Among Middle-aged and Older Adults".
30. Abigail Adjei, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2022-2023. "Nicotine dependence among adolescents who use e-cigarettes in the United States. A national representative study".
31. Olivia Kapera, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2023-2024. "Exploring weight stigma, discrimination in medical settings, and social determinants of health in reproductive-age women: insights from the all of us study."
32. Meenakshi Dasagi, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2023-2024. "Understanding the impact of marijuana, nicotine, and tobacco on oral health among young adults in Texas".
33. Bailey Perez, PhD in Environmental Disease, University of Texas Health Science Center at Houston, 2023-2024. "Building Futures: the Impact of the Built Environment on Social-Emotional Development of Youth in the United States".
34. Emily Mason, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2023-present.
35. Nagla Elerian, PhD in Epidemiology, University of Texas Health Science Center at Houston, 2023-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." \*Advisee.
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." \*Advisee.
4. Najib Murr, MPH, Department of Biostatistics, University of Nebraska Medical Center, 2012-2014.
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 Eteko, 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, 2017-2018. "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, 2017-2018. "Exploring clinical and social variables of hepatitis C virus in homeless individuals residing in Travis County, Texas."
13. David Marsden. MPH in Epidemiology, University of Texas Health Science Center at Houston, 2018-2019. "Alternative Tobacco Product Use & Depressive Symptoms Among Young Adults: a Longitudinal Analysis with Frequency of Use."
14. Shan Gao. MPH in Epidemiology, University of Texas Health Science Center at Houston, 2018-2019. "Hours of Gaming or Non-academic Computer use, Substance Use, and School Performance among Texas Adolescence: Findings from the 2017 YRBS in Texas."
15. Sonia Rao\*. MPH in Biostatistics, University of Texas Health Science Center at Houston, 2017-2019. \*Advisee.
16. Austin Green\*. MPH in Customize Degree, University of Texas Health Science Center at Houston, 2017-2019. \*Advisee.
17. Christopher Strittmatter\*. MPH in Customize Degree, University of Texas Health Science Center at Houston, 2017-2019. \*Advisee.
18. Xiaorui Zhang\*. MS in Biostatistics, University of Texas Health Science Center at Houston, 2017-present. \*Advisee.
19. Ifeoluwa Shoyombo\*. MPH in Customize Degree, University of Texas Health Science Center at Houston, 2018-2019. \*Advisee.
20. Lee Minnetti\*. MS in Customize Degree, University of Texas Health Science Center at Houston, 2019-2021. "Associations between age and sex on covid-19 case hospitalization, dyspnea prevalence and fever prevalence in October 2020 franklin county, Ohio". \*Advisee.
21. Caitlyn Winter. MS in Epidemiology, University of Texas Health Science Center at Houston, 2019-2020. "Asthma-COPD overlap syndrome and disease progression in the COPD Gene cohort study."
22. Allison Bebo. MS in Epidemiology, University of Texas Health Science Center at Houston, 2020-2021. "Coronary heart disease and ischemic stroke polygenic risk scores and atherosclerotic cardiovascular disease in a diverse, population-based cohort study."
23. Jing Xie\*. MPH in Biostatistics, University of Texas Health Science Center at Houston, 2021-2022. \*Advisee.
24. Pranav Jayaraman. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2020-2022. \*Advisee.
25. Kaytlyn Salmons. MPH in Customize Degree, University of Texas Health Science Center at Houston, 2022-2022.
26. Isis Cerda. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2022. \*Advisee.
27. Madalyn Addis. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2021. \*Advisee.
28. Cameron Isaac. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2022. \*Advisee.

29. Hannah Worby. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2023. \*Advisee.
30. Erin Schwartz. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-Present. \*Advisee.
31. Divia Kallattil.\* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2022. \*Advisee.
32. Ashley Jacob. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2023. \*Advisee.
33. Michele Harris. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-Present. \*Advisee.
34. Ariana Rabette. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2022. \*Advisee.
35. Danielle Gartner. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2023. \*Advisee.
36. Stephanie Cerda. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-Present. \*Advisee.
37. Katie Clark. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2023. \*Advisee.
38. Gracia Dala. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2023. \*Advisee.
39. Daoqi Gao. MS in Biostatistics, University of Texas Health Science Center at Houston, 2022-2023.
40. Nuha Makki. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2021-2023. \*Advisee.
41. Derek Duong. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2022-2024. \*Advisee.
42. Elsa Vizcarra. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2022-Present. \*Advisee.
43. Lisette Falk. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2022-Present. \*Advisee.
44. Alina Rizvi. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2022-2023. \*Advisee.
45. Arquala Davis. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2023-Present. \*Advisee.
46. Sama Jwaitied. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2023-2024. \*Advisee.
47. Zoey Lu. \* MPH in Customize Degree, University of Texas Health Science Center at Houston, 2023-Present. \*Advisee.
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**Courses taught:**

Courses	Dates	Role	Number of students
PH 1700 Intermediate Biostatistics	Fall 2024	Instructor	25
PH 1690 Introduction to Biostatistics	Fall 2024	Instructor	23
PH 1700 Intermediate Biostatistics	Spring 2024	Instructor	57
PH 1690 Introduction to Biostatistics	Fall 2023	Instructor	23
PH 1700 Intermediate Biostatistics	Spring 2023	Instructor	56
PH 1690 Introduction to Biostatistics	Fall 2022	Instructor	35
PH 1700 Intermediate Biostatistics	Spring 2022	Instructor	59
PH 1690 Introduction to Biostatistics	Fall 2021	Instructor	49
PH 1700 Intermediate Biostatistics	Spring 2021	Instructor	56

PH 1690 Introduction to Biostatistics	Fall 2020	Instructor	45
PH 1700 Intermediate Biostatistics	Spring 2020	Instructor	22
PH 1700 Intermediate Biostatistics	Fall 2019	Instructor	15
PH 1624 Introduction to SAS Data Management	Summer 2019	Instructor	13
PH 1700 Intermediate Biostatistics	Spring 2019	Instructor	19
PH 1918 Statistical Methods for Correlated Outcomes	Fall 2018	Instructor	22
PH 1624 Introduction to SAS Data Management	Summer 2018	Instructor	16
PH 1700 Intermediate Biostatistics	Spring 2018	Instructor	37
PH 1624 Introduction to SAS Data Management	Summer 2017	Instructor	22
BIOS 983 Statistical Inference II	Spring 2016	Instructor	5
BIOS 824/CPH 654 Survival analysis (on campus and online)	Fall 2015	Instructor	23
BIOS 896 Research other than thesis in Biostatistics	Summer 2015	Instructor	2
BIOS 825/CPH 655 Correlated data analysis (on campus and online)	Spring 2015	Instructor	19
BIOS 896 Research other than thesis in Biostatistics	Spring 2015	Instructor	1
BIOS 824/CPH 654 Survival analysis (on campus and online)	Fall 2014	Instructor	18
BIOS 896 Research other than thesis in Biostatistics	Fall 2014	Instructor	1
BIOS 825/CPH 655 Correlated data analysis (on campus and online)	Spring 2014	Instructor	15
BIOS 824/CPH 654 Survival analysis	Fall 2013	Instructor	14
BIOS 825/CPH 655 Correlated data analysis	Spring 2013	Instructor	12
BIOS 824/CPH 654 Survival analysis	Fall 2012	Instructor	13
BIOS 998 Independent study	Fall 2012	Instructor	1
BIOS 998 Independent study	Summer 2012	Instructor	1
BIOS 825/CPH 655 Correlated data analysis	Spring 2012	Instructor	7
BIOS 824/CPH 654 Survival analysis	Fall 2011	Instructor	11
BIOS 998 Independent study	Summer 2011	Instructor	1
Sample size and power analysis for CPH 643/EPI 803	February 2016	Lecture	10
Sensitivity, specificity and ROC analyses in Department of Radiology	May 2012	Lecture	26
General overview of statistics in Department of Radiology	May 2012	Lecture	26
Sample size and power analysis for EPI 821	March 2011	Lecture	25
Probability	Spring 2008	Instructor	80