

CURRICULUM VITAE

Qingxia (Cindy) Chen, PHD

Updated: May 27, 2024

Office Address: Department of Biostatistics
Vanderbilt University School of Medicine
2525 West End, Ste 11133A
Nashville, Tennessee 37203-2158

Phone: (615) 936-8058

E-mail: cindy.chen@vumc.org

Web page: biostat.app.vumc.org/QingxiaChen

EDUCATION

1999 BS in Statistics, University of Science and Technology of China, Hefei, Anhui, China

2001 MS in Statistics, University of Pittsburgh, Pittsburgh, PA

2005 PhD in Biostatistics, University of North Carolina at Chapel Hill, Chapel Hill, NC
Dissertation: Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problem

ACADEMIC APPOINTMENTS

Primary

- Assistant Professor, Department of Biostatistics, Vanderbilt University School of Medicine, 2005–2013
- Associate Professor (with Tenure), Department of Biostatistics, Vanderbilt University (later Vanderbilt University Medical Center), School of Medicine, 2014–2021
- Director of Executive Data Science Program, Departments of Biostatistics and Biomedical Informatics, Vanderbilt University Medical Center, 2017–present
- Director of Biostatistics Post-Graduate Studies and Distance Learning, Departments of Biostatistics and Biomedical Informatics, Vanderbilt University Medical Center, 2017–present
- Professor (with Tenure), Department of Biostatistics, Vanderbilt University Medical Center, 2022–present
- Vice Chair of Education, Department of Biostatistics, Vanderbilt University Medical Center, 2022–present

Affiliate

- Assistant Professor, Department of Biomedical Informatics, Vanderbilt University School of Medicine, 2012–2013

- Associate Professor, Department of Biomedical Informatics, Vanderbilt University (later Vanderbilt University Medical Center), School of Medicine, 2014–2021
- Associate Professor, Department of Ophthalmology and Visual Sciences, Vanderbilt University Medical Center, 2019–2021
- Professor, Department of Biomedical Informatics, Vanderbilt University Medical Center, 2022–present
- Professor, Department of Ophthalmology and Visual Sciences, Vanderbilt University Medical Center, 2022–present

AWARDS AND HONORS

| | |
|-----------|---|
| 1995-1999 | Outstanding Student Scholarship, University of Science and Technology of China |
| 2004 | JSM-SBSS Student Travel Award |
| 2005 | Student Travel Award, University of North Carolina at Chapel Hill |
| 2007 | SAMSI Travel Award |
| 2007 | IMS New Researcher Travel Grant |
| 2007 | ENAR New Researcher Travel Grant |
| 2013 | SAMSI Travel Award |
| 2014 | Department Method Publication Award (2013) |
| 2015 | James E Grizzle Distinguished Alumna Award, University of North Carolina at Chapel Hill |
| 2023 | Membership of Academy for Excellence in Education |

EMPLOYMENT

| | |
|-----------|--|
| 2001 | Internship in Western Psychiatric Institute and Clinics, Pittsburgh |
| 2001-2005 | Research Assistant, Department of Biostatistics, University of North Carolina at Chapel Hill |
| 2000-2001 | Research Assistant, Department of Statistics, University of Pittsburgh |

PROFESSIONAL ORGANIZATIONS

| | |
|--------------|---|
| 2002-present | American Statistical Association |
| 2003-present | International Biometric Society |
| 2003-present | International Society for Bayesian Analysis |
| 2009-present | International Chinese Statistical Association |

PROFESSIONAL ACTIVITIES

Intramural

- Primary Dissertation Advisor
 - 2012-2015 (MS), Austin Marcus Lanser
Thesis: Evaluation of Method for Survival Analysis in the Presence of Extremely Few Events per Variable
Position: Statistical Programmer, Sarah Cannon Cancer Center
 - 2015-2017 (MS), Zhijun Yin
Thesis: Talking About My Care: Detecting Mentions of Hormonal Therapy Adherence Behavior From an Online Breast Cancer Community
Position: Assistant Professor of Biomedical Informatics, Electrical Engineering and Computer Science, Vanderbilt University Medical Center
 - 2012-2018 (PhD), David Schlueter
Dissertation: Bayesian Transformation Models for Multivariate Survival Analysis with Applications in Large Data
Position: Research Fellow, National Human Genome Research Institute (NHGRI)
 - 2019-2020 (MS), Rebecca Irlmeier
Thesis: Impact of Delayed Error on Cox and Logistic Regression Models and Its Application to GWAS and PheWAS
Position: Biostatistician, Vanderbilt University Medical Center
 - 2018-2022 (PhD), Elizabeth Sigworth Westerberg
Dissertation: Improving Inferential and Computational Efficiency for Real-World Data
Position: Associate Research Consultant, OPEN Health
 - 2021-present (PhD candidate), Huiding Chen
 - 2023-present (PhD candidate), Haoyang Yi
- Mentees
 - Dana Blakemore, MS, Biostatistician II, Department of Biostatistics (2007-2009).
 - Angel An, MS, Biostatistician III, Department of Biostatistics (2007-2009).
 - Xue Han, MS, Biostatistician II, Department of Biostatistics (2011-2014).
 - Qi Liu, PhD student, Research Assistant, Department of Biostatistics (2011-2012).
 - Hui Nian, PhD, Biostatistician III, Department of Biostatistics (2010-2015).
 - Xiaoke Feng, MS, Biostatistician, Department of Biostatistics (2018-present).
 - Yuhan Liu, MS, Biostatistician II, Department of Biostatistics (2019-2021).
 - Andrew Guide, MS, Senior Biostatistician, Department of Biostatistics (2020-present).
 - Xiangyu Ji, MS, Biostatistician, Department of Biostatistics (2022-present).
- Academic Advisor
 - Nate Mercaldo, PhD candidate, Department of Biostatistics (2011-2013).
 - Run Fan, MS candidate, Department of Biostatistics (2013-2015).
 - Coleman Harris, MS candidate, Department of Biostatistics (2017-2019).

- Haoyang Yi, PhD candidate, Department of Biostatistics (2022-present).
- Committees
 - Member, Graduate Admissions Committee, Department of Biostatistics (2010-2014, 2016)
 - Member, Graduate Program Committee, Department of Biostatistics (2009-2018)
 - Member, Faculty Search Committee, Department of Biostatistics (2005-present)
 - Member, Staff Promotion Committee, Department of Biostatistics (2013-2017)
 - Member, Award Committee, Department of Biostatistics (2017, 2022)
 - Member, Admissions Committee, Data Science Institute (2019-2020)
 - Chair, Department Annual Retreat, Department of Biostatistics (2022)
 - Member, Graduate Program Executive Committee, Department of Biostatistics (2022-Present)
 - Member, Organizing Committee for Department 20th Year Anniversary, Department of Biostatistics (2023)
 - Member, BFAPC Committee, Department of Biostatistics (2023-Present)
 - Member, BSEC Committee, Department of Biostatistics (2023-Present)
 - Member, Graduate Program Curriculum Committee, Department of Biostatistics (2023-Present)
 - Member, Academy for Excellence in Education, PEP Club (2023-Present)
- Dissertation Committee
 - Committee Member, Jeffrey Thomas Leegon (MS, Biomedical Informatics) (2010-2011).
 - Committee Member, Naqi Ali Khan (PhD, Biomedical Informatics) (2011-2012).
 - Committee Member, Zhou Yan (MS, Biomedical Informatics) (2011-2013).
 - Committee Member, Yukun Chen (PhD, Biomedical Informatics) (2013-2015).
 - Committee Member, Joshua Carl Smith (PhD, Biomedical Informatics) (2012-2016).
 - Committee Member, Yaa Kumah-Crystal (MS, Biomedical Informatics) (2013-2017).
 - Committee Member, Lucy D’Agostino McGowan (PhD, Biostatistics) (2016-2018).
 - Committee Member, Dong Wang (PhD, Biomedical Informatics) (2012-present).
 - Committee Member, Mark Giganti (PhD, Biostatistics) (2015-2018).
 - Committee Member, Svetlana Eden (PhD, Biostatistics) (2016-2020).
 - Committee Member, Alice E Toll (MS, Biostatistics) (2016-2018).
 - Committee Member, Jacquelyn Neal (MS, Biostatistics) (2016-2018).
 - Committee Member, Rui Wang (MS, Biostatistics) (2017-2018).
 - Committee Member, Elizabeth McNeer (MS, Biostatistics) (2017-2018).
 - Committee Member, Yi Zuo (PhD, Biostatistics) (2020-2022).
 - Committee Member, Chiara Di Gravio (PhD, Biostatistics) (2020-present).
 - Committee Member, Tianyi Sun (PhD, Biostatistics) (2021-present).

- Committee Member, Leigh Anne Tang (PhD, Biomedical Informatics) (2022-present).
- Committee Member, Joseph Vento (MS, Biomedical Informatics) (2023-present)
- Committee Member, Xiaoming Gao (DrPH, Biostatistics, University of North Carolina at Chapel Hill) (2022-present)

Extramural

- Referee (alphabetical order)
A Division of the American Mathematical Society, The American Journal of Human Genetics, Annals of Applied Statistics, Applied Mathematics and Computation, Bayesian Analysis, Biometrical Journal, Biometrics, Biometrika, Biostatistics, Canadian Journal of Statistics, Communications in Statistics - Simulation and Computation, Computational Statistics and Data Analysis, Epidemiology, Clinical Trials, Health Services and Outcomes Research Methodology, Journal of the American Statistical Association, The Lancet Child & Adolescent Health, Journal of Applied Statistics, Journal of Biomedical Informatics, Journal of Clinical Cancer Informatics, Journal of Official Statistics, Journal of the American Medical Informatics Association, Journal of the Royal Statistical Society Series C, Journal of Statistical Planning and Inference, Journal of Statistical Computation and Simulation, The Lancet Child & Adolescent Health, The Lancet Psychiatry, Lifetime Data Analysis, Mathematical Reviews, Nature Computational Science, OMICS Publishing Group, Philosophical Transactions of the Royal Society A, PLoS ONE, Scandinavian Journal of Statistics, Statistics in Biopharmaceutical Research, Statistics in Biosciences, Statistics in Medicine, Statistical Sinica, Vaccines
- Conferences
 - Session Chair, Data Augmentation, EM, and Bayesian Methods with Missing Data, Joint Statistical Meeting, Minneapolis, Minnesota (August 2005)
 - Session Chair, Adaptive Designs for Clinical Trials, Eastern North American Region, Miami, Florida (March 2011)
 - Session Organizer and Chair, Semi-Competing Risks, Eastern North American Region, Baltimore, Maryland (April 2012)
 - Session Chair, Kaleidoscope IIa, useR!, Nashville, Tennessee (June 2012)
 - Session Chair, Causal Inference, International Chinese Statistical Association, Boston, Massachusetts (June 2012)
 - Session Chair, The Latest Development of Adaptive Clinical Designs, International Chinese Statistical Association, Boston, Massachusetts (June 2012)
 - Session Chair, Novel Developments in the Construction and Evaluation of Risk Prediction Models, Eastern North American Region, Orlando, Florida (March 2013)
 - ENAR RAB Poster Award Competition Judge (March 2013)
 - Session Organizer and Chair, Recent Developments in Survival Analysis, Joint Applied Statistics Symposium of International Chinese Statistical Association & Korean International Statistical Society, Portland, Oregon (June 2014)
 - Session Organizer, Emerging Issues in Clinical Trials and High Dimensional Data, Eastern North American Region, Miami, Florida (March 2015)
 - Session Organizer, Emerging Issues in Time-to-Event Data, International Chinese Statistical Association, Fort Collins, Colorado (June 2015)

- Session Organizer, Emerging Issues in Clinical Trials with Time-to-Event Data in the Presence of Competing Risks, Eastern North American Region, Austin, Texas (March 2016)
- Session Organizer, A Recent Development on Competing and Semi-competing Risks, Data Science, Precision Medicine and Risk Analysis with Lifetime Data 2017 LIDA Conference, Storrs, Connecticut (May 2017)
- Session Co-organizer, Modern Statistical Methods for the EHR Era, Eastern North American Region, Atlanta, Georgia (March 2018)
- Session Organizer, Modern Statistical Development for Biomedical Big Data, International Chinese Statistical Association, New Brunswick, New Jersey (June 2018)
- Session Co-organizer, Lead with Statistics: Case Studies and Methods for Learning and Improving Healthcare Through EHRs, Joint Statistical Meeting, Vancouver, Canada (July 2018)
- Session Co-organizer, Case Studies and Methods for Learning and Improving Healthcare Through EHRs, International Chinese Statistical Association, Chapel Hill, North Carolina (June 2019)
- Session Co-organizer and Chair, Recent Method Developments on Quantile Regression, International Chinese Statistical Association, Tianjin, China (July 2019)
- Session Co-organizer, Emerging Issues in EHR: Methods to Enhance Knowledge Discovery and Real World Implementation, Joint Statistical Meeting, Philadelphia, Pennsylvania (August 2020)
- Co-chair of Executive Committee, Chair of Short-course Committee, Committee of Local Committee, 2024 International Chinese Statistical Association Applied Symposium, Nashville, Tennessee (June 2024)
- Organizer and Moderator, Empowering Paths: Mentorship and Career Development for Women. 2024 International Chinese Statistical Association Applied Symposium, Nashville, Tennessee (June 2024)
- Committees
 - International Chinese Statistical Association, Program Committee for 2013-2015
 - International Chinese Statistical Association, Representative to 2014 Joint Statistical Meeting Program Committee
 - Eastern North American Region, local organizer for 2020
 - International Chinese Statistical Association Applied Statistics Symposium, Co-chair, 2024
- Editorial
 - Editorial Board, ISRN Epidemiology (2012-2013)
 - Associate Editor, Statistics and Its Interface (01/01/2016-present)
- Grant Reviewer
 - Ad hoc reviewer for Wellcome Trust, 2015
 - National Science Foundation (NSF) review panel, Statistics Program, 2017, 2019, 2022

- National Cancer Institute (NCI) review panel for UH2/UH3, 2018, 2019
- National Cancer Institute (NCI) review panel for P01, 2019
- American Heart Association Executive Peer Review, 2023
- Report/Conference Reviewer
 - American Medical Informatics Association (AMIA) conference review (2017, 2018, 2019, 2020)
 - Patient-Centered Outcomes Research Institute (PCORI) report review (2018)
- Consultant
 - Special Government Employee (SGE) for U.S. Food and Drug Administration (2017-present)

TEACHING ACTIVITIES

- Courses
 - Co-teaching *EPID 323: Design and Analysis with Time-to-Event Data*, Department of Epidemiology, Vanderbilt University (2011 Spring).
 - Teaching *EPID 323-01: Design and Analysis with Time-to-Event Data*, Department of Epidemiology, Vanderbilt University (2012 Spring).
 - Teaching *EPID 332: Advanced Methods For Epidemiology*, Department of Epidemiology, Vanderbilt University (2013 Fall).
 - Teaching *BIOS 323: Applied Survival Analysis*, Department of Biostatistics, Vanderbilt University (2012-2022).
 - Co-teaching *MSCI 5009-01: Biostatistics I*, Master of Science in Clinical Investigation, Vanderbilt University Medical Center (2023 Fall).
- Workshops
 - Co-teaching *An Introduction to Missing Data: Multiple Imputation*, Vanderbilt Kennedy Center, Vanderbilt University (2012).
 - Teaching *Adjusting for Treatment Switch in Survival Analysis*, Boehringer Ingelheim (2015)
- Lectures *Missing Data – When Can You Worry Less*, Continued Education for Staff Statisticians Lecture Series, Department of Biostatistics (June 2011).
- Guest Lecture *Introduction to Survival Analysis*, BMIF-6390/CS-5891/CS-3891: Machine Learning and Natural Language Processing for Healthcare, Department of Computer Science (March 2022).
- Co-teaching *Introduction to the All of Us Researcher Program*, Summer Institute, Department of Biostatistics, Vanderbilt University Medical Center (2023).

RESEARCH PROGRAM

Active Funding

| | | |
|--|---|-----------------------|
| NSF-DMS 2410953-000 (PI: Chen/Liu) NSF/DMS Biostatistics Conference: ICSA 2024 Applied Statistical Symposium | 06/15/2024 – 05/31/2025 Role: Contact PI | 0% 20,000 |
| 1R21MD019103-01 (PI: Chen/Cronin) NIH/NIMHD Biostatistics DARSAW: Developing, Assessing, and Refining Synthetic Sampling Weights to Improve Generalizability of the <i>All of Us</i> Research Program Data | 09/17/2023 – 03/31/2025 Role: Contact PI | 13-20% |
| 1R01CA237895-01A1 (PI: Yang/Chen) NIH/NCI Epidemiology/Biostatistics Time-dependent and Bidirectional Effect of Oxidative Stress - a Missing Piece of the Free Radical Theory of Cancer and its Potential Implications | 12/01/2019 – 11/30/2026 Role: MPI | 10-12.5% 3,453,218 |
| 1R37CA237452-01A1 (PI: Yin) NCI Biomedical Informatics Prediction of Anti-Cancer Medication Discontinuation via Patient Portal Messages and Structured Electronic Medical Records | 05/01/2020 – 04/30/2024 Role: Co-Investigator | 13.5-25% 1,563,494 |
| OT2 OD035404 * (PI: Harris/Roden) NIH/NCATS Biomedical Informatics Precision Medicine Initiative Participants Preparatory/Prototyping Initiative (“All of Us”) | 07/06/2016 – 01/31/2024+ Role: Co-Investigator/Biostatistics | 15-30% 130,831,642 |
| * Pending renewal | | |
| 000 (PI: Sternberg) Research to Prevent Blindness Eye Institute The VEI research enterprise focuses on translational medicine, defined as understanding mechanisms of disease to identify new therapeutic targets for imminent clinical use. | 07/01/2016 – 06/30/2024 Role: Biostatistician | 10% 575,000 |

Completed Funding

| | | |
|---|--|--------------------|
| U24 CA194215-01A1 (PI: Xu/Chen/Ping) NIH/NCI Biomedical Informatics Advancing Cancer Pharmacoepidemiology Research Through EHRs and Informatics | 09/01/2016 – 08/31/2023 Role: Site PI | 5-15% 3,274,448 |
| VUMC75977/64793 (PI: Walsh) FDA Sentinel Innovation Center Biomedical Informatics To adapt NLP to ascertain suicidality from individual notes, validate it to predict death from suicide, and generalize the approach to secondary outcomes | 02/01/2021 – 07/31/2023 Role: Biostatistician | 5% 824,687 |

| | | |
|---|-------------------------|--------|
| DoD W81XWH-17-2-0055 (PI: Rex) | 09/15/2017 – 06/30/2022 | 5% |
| Department of Defense | Role: Biostatistician | |
| Ophthalmology and Visual Sciences | | |
| Quantitative Evaluation of Visual and Auditory Dysfunction and Multisensory Integration in Complex TBI Patients | | |
| VUMC75977/64793 (PI: Walsh) | 11/01/2019 – 08/31/2021 | 5-10% |
| State of TN/DoJ | Role: Biostatistician | |
| Biomedical Informatics | | |
| Overdose Predictive Modeling | | |
| Department Award (PI: Chen) | 01/01/2018 – 06/30/2020 | 2.5-5% |
| Vanderbilt University Medical Center | Role: PI | |
| Biostatistics | | |
| Improving Data Quality for Time-varying Measurements in Electronic Medical Records | | |
| UNC 5-58358 # (PI: Chen) | 09/01/2013-8/10/2015 | 10% |
| University of North Carolina | Role: site PI | |
| Biostatistics | | |
| Center for Innovative Clinical Trials at UNC | | |
| #: Renew annually; subaward from University of North Carolina at Chapel Hill (UNC) through the Center for Innovative Clinical Trials Served as consultant during 09/01/2008-08/31/2013. | | |
| R21 HL097334-01A2 (PI: Chen) | 12/20/2010-11/30/2014 | 25-50% |
| NHLBI | Role: PI | |
| Biostatistics | | |
| A New Approach to Correct Verification Bias Using Auxiliary Information | | |
| 1R01HS021496-01A1 (PI: Jackson) | 07/01/2013-06/30/2019 | 5% |
| AHRQ | Role: Co-Investigator | |
| Pediatric Surgery | | |
| Personal Health Information Needs and Practices for Maternal Fetal Care | | |
| 6OT2 OD023132-02 (PI: Denny) | 02/24/2016 – 12/31/2018 | 10% |
| NIH/NCATS | Role: Biostatistician | |
| Biomedical Informatics | | |
| PMI Participants Preparatory/Prototyping Initiative | | |
| 5UL1 TR000445-07 (PI: Bernard) | 06/27/2012-05/31/2017 | 10% |
| NCRR | Role: Biostatistician | |
| Medicine | | |
| The Vanderbilt Institute for Clinical and Translational Research (VICTR) | | |
| R01 AG043419 (PI: Talbot) | 06/10/2013-05/30/2016 | 15% |
| NIAID | Role: Co-Investigator | |
| Medicine | | |
| Effectiveness of the Influenza Vaccine in the Aging Population | | |

| | | |
|---|--|--------|
| 1R01LM10828-01 (PI: Miller) NLM Biomedical Informatics Evidence-based Diagnostic Tools for Translational and Clinical Research (eTfor2) | 07/01/2010-09/29/2014 Role: Biostatistician | 0-10% |
| 1R18HS019276-02 (PI: Rosenbloom) AHRQ Biomedical Informatics Disseminating Adapted Diabetes Evidence to Clinicians Through a Patient Portal | 09/01/2010 – 08/31/2013 Role: Co-Investigator | 10% |
| 5R01CA141307-03 (PI: Xu) NHLBI Biomedical Informatics An In-silico Method for Epidemiological Studies Using Electronic Medical Records | 10/01/2009 - 06/30/2013 Role: Biostatistician | 10-15% |
| 1R18HS018168-03 (PI: Johnson) AHRQ Biomedical Informatics My MediHealth: A Paradigm for Children-centered Medication Management | 09/30/2009-07/31/2012 Role: Co-Investigator | 10% |
| 1K23 AI074830-02* (PI: Creech II) NIH/NIAID/DMID Infectious Diseases A Longitudinal Study of CA-MRSA Nasal Colonizations in College Sports Participants | 09/04/2008-08/31/2011 Role: Co-Investigator | 2.5% |
| 5R01LM009591-03 (PI: Rosenbloom) NIH/NLM Biomedical Informatics A Framework-based Clinical Documentation Evaluation Method | 09/30/2008-09/29/2011 Role: Co-Investigator | 5-15% |
| 290-04-0016 (PI: Frisse) State of Tennessee - Federal Formula Biomedical Informatics State and Regional Demonstrations of Health Information Technology | 10/01/2004-09/30/2009 Role: Co-Investigator | 10% |
| 5U18 IP000184-03 (PI: Griffin) Centers for Disease Control Preventive Medicine Annual Estimates of Influenza Vaccine Effectiveness: Davidson County, TN | 07/01/2008-07/31/2011 Role: Co-Investigator | 5% |
| 5R01HL085690-04 (PI: Darbar) NHLBI Cardiovascular Medicine QT Interval Remodeling in Atrial Fibrillation | 12/15/2007-11/30/2011 Role: Biostatistician | 5-10% |
| 5K23AI074863-04* (PI: Talbot) NIAID Infectious Diseases Adult Flu Hospitalizations: Evaluating Diagnostic Methods and Vaccine Effectiveness | 03/01/2008-02/28/2013 Role: Co-Investigator | 5-15% |

| | | |
|--|--|----------|
| N01 AI025462 (PI: Edwards) NIAID Vanderbilt Vaccine Research Program Evaluation of Control Measures Against Diseases other than AIDS/VTEU | 12/01/2005-08/31/2008 Role: Co-Investigator | 20% |
| IHHSN27220080007C* (PI: Edward) NIAID Vanderbilt Vaccine Research Program Vaccine and Treatment Evaluation Units (VTEUs): Evaluation of Control Measures Against Disease Other than AIDS | 11/01/2007-10/31/2014 Role: Co-Investigator | 6.37-20% |
| 5P50HL081009-05 (PI: Vaughan) NHLBI Medicine Clinical Pharmacology SCCOR in Hemostatic and Thrombotic Diseases | 05/20/2006-02/28/2012 Role: Co-Core Leader | 20-34% |
| 5R01LM007995-06 (PI: Miller) NLM Biomedical Informatics MOMENT (Monitoring for Outpatient Medication Effects and New Toxicities) in TIME | 06/15/2007 - 06/14/2010 Role: Co-Investigator | 9% |

* Funding was transferred to other faculty members because I was over-funded

PUBLICATIONS and PRESENTATIONS

Publications

Peer-Reviewed Published or To-appear Papers

- **Current and former PhD advisees and research assistants are indicated by an ***
- 1. Moul D, Ombao H, Monk T, **Chen Q**, Begley A, Buysse D (2002) Masking effects of posture and sleep onset on core body temperature have distinct circadian rhythms: results from a 90-min/day protocol, *J Biol Rhythms*, 2002; 17(5): 447-62. PMID: 12375621.
- 2. Hall M, Vasko R, Buysse D, Ombao H, **Chen Q**, Cashmere D, Kupfer D, Thayer J (2004) Acute stress affects heart rate variability during sleep, *Psychosom Med*, 2004; 66(1): 56-62. PMID: 14747638.
- 3. **Chen Q**, Ibrahim JG (2006) Semiparametric models for missing covariate and response data in regression models, *Biometrics*, 2006; 62(1): 177-84. PMID: 16542244.
- 4. Joos D, **Chen Q**, Jirjis J, Johnson KB (2006) An electronic medical record in primary care: impact on satisfaction, work efficiency and clinic processes, *AMIA Annu Symp Proc*, 2006; 394-398. PMID: 17238370.
- 5. Dexheimer J, Jones I, **Chen Q**, Talbot T, Mason D, Aronsky D (2006) Providers' beliefs, attitudes, and behaviors before implementing a computerized pneumococcal vaccination reminder, *Acad Emerg Med*, 2006; 13(12): 1312-8. PMID: 17101730.

6. **Chen Q**, Zeng D, Ibrahim JG (2007) Sieve maximum likelihood estimation for missing covariates in regression models, *J Am Statist Assoc*, 2007; 102: 1309-18.
7. Devin JK, Blevins LS, Verity DK, **Chen Q**, Bloodworth JR, Covington J, Vaughan DE (2007) Markedly impaired fibrinolytic balance contributes to cardiovascular risk in adults with growth hormone deficiency, *J Clin Endocrinol Metab*, 2007; 92(9): 3633-9. PMID: 17579195.
8. **Chen Q**, Ibrahim JG, Chen M-H, Senchaudhuri P (2008) Theory and inference for regression models with missing response and covariates, *J Multivar Anal*, 2008; 99(6): 1302-31. PMID: 19169388.
9. Johnson KB, Chark D, **Chen Q**, Broussard A, Rosenbloom T (2008) Performing without a net: transitioning away from a health information technology-rich training environment, *Acad Med*, 2008; 83(12): 1179-86. PMID: 19202496.
10. Shinall MC, Peters TR, Zhu Y, **Chen Q**, Poehling KA (2008) Potential impact of acceleration of the pertussis vaccine primary series for infants , *Pediatrics*, 2008; 122(5): 1021-6. PMID: 18977982.
11. Halasa NB, Gerber M, **Chen Q**, Wright P, Edwards K (2008) Safety and immunogenicity of trivalent inactivated influenza vaccine in infants, *J Infect Dis*, 2008; 197(10): 1448-54. PMID: 18444800.
12. Devin JK, Vaughan DE, Blevins LS, **Chen Q**, Covington J, Verity DK, Young PP (2008) Low-dose growth hormone administration mobilizes endothelial progenitor cells in healthy adults, *Growth Horm IGF Res*, 2008; 18(3): 253-63. PMID: 18166495.
13. Zeng D, **Chen Q**, Ibrahim JG (2009) Gamma frailty transformation models for multivariate survival times, *Biometrika*, 2009; 96(2): 277-91. PMID: 24948838.
14. Janssen KJM, Vergouwe Y, Donders ART, Harrell FE, **Chen Q**, Grobbee DE, Moons KGM (2009) Dealing with missing predictor values when applying clinical prediction models, *Clin Chem*, 2009; 55(5):994-1001. PMID: 19282357.
15. Miller EK, Khuri-Bulos N, Williams JV, Shehabi AA, Faouri S, Jundi IA, **Chen Q**, Heil L, Mohamed Y, Morin L, Ali A, Halasa NB (2009) Human rhinovirus C associated with wheezing in hospitalized children in the Middle East, *J Clin Virol*, 2009; 46(1):85-9. PMID: 19581125.
16. Talbot HK, Poehling KA, Williams JV, Zhu Y, **Chen Q**, McNabb P, Edwards KM, Griffin MR (2009) Influenza in older adults: impact of vaccination of school children, *Vaccine*, 2009; 27(13):1923-7. PMID: 19368772.
17. Janssen KJM, Donders ART, Harrell FE, Vergouwe Y, **Chen Q**, Grobbee DE, Moons KGM (2010) Missing covariate data in medical research: to impute is better than to ignore, *J Clin Epidemiol*, 2010; 63(7):721-7. PMID: 20338724.
18. Zeng D, **Chen Q** (2010) Adjustment for missingness using auxiliary information in semiparametric regression, *Biometrics*, 2010; 66(1):115-22. PMID: 19432773.
19. Stenner SP, **Chen Q**, Johnson KB (2010) Impact of generic substitution decision support on electronic prescribing behavior, *J Am Med Inform Assoc*, 2010; 17(6):681-8. PMID: 20962131.

20. Rosenbloom S, McGregor T, **Chen Q**, An A, Hsu S, Dupont W (2010) Specialized pediatric growth charts for electronic health record systems: the example of Down Syndrome, *AMIA Annu Symp Proc*, 2010; 687-91. PMID: 21347066.
21. Petty T, Callahan ST, **Chen Q**, Edwards KM, Dempsey A (2010) Assessment of parental acceptance of a potential cytomegalovirus vaccine for adolescent females, *Vaccine*, 2010; 28(35):5686-90. PMID: 20600495.
22. Ali SA, Williams JV, **Chen Q**, Faori S, Shehabi A, Jundi EA, Khuri-Bulos N, Halasa NB (2010) Human metapneumovirus in hospitalized children in Amman, Jordan, *J Med Virol*, 2010; 82(6):1012-6. PMID: 20419816.
23. Khuri-Bulos N, Williams JV, Shehabi AA, Faouri S, Al Jundi E, Abushariah O, **Chen Q**, Ali SA, Vermund S, Halasa NB (2010) Burden of respiratory syncytial virus in hospitalized infants and young children in Amman, Jordan, *Scand J Infect Dis*, 2010; 42(5):368-74. PMID: 20100116.
24. Li J, Solus J, **Chen Q**, Rho YH, Milne G, Stein CM, Darbar D (2010) Role of inflammation and oxidative stress in atrial fibrillation, *Heart Rhythm*, 2010; 7(4):438-44. PMID: 20153266.
25. Talbot H, Griffin M, **Chen Q**, Zhu Y, Williams J, Edwards K (2011) Effectiveness of seasonal vaccine in preventing confirmed influenza-associated hospitalizations in community dwelling older adults, *J Infect Dis*, 2011; 203(4):500-8. PMID: 21220776.
26. Griffin MR, Monto AS, Belongia EA, Treanor JJ, **Chen Q**, Chen J, Talbot HK, Ohmit SE, Coleman LA, Lofthus G, Petrie JG, Meece JK, Hall CB, Williams JV, Gargiullo P, Berman LS, Shay DK (2011) Effectiveness of non-adjuvanted pandemic influenza A (H1N1) vaccines in preventing medically attended pandemic influenza virus associated acute respiratory illness in 4 US communities, *PLoS ONE*, 2011; 6(8):e23085. PMID: 21857999.
27. Johnson KB, Unertl KM, **Chen Q**, Lorenzi NM, Nian H*, Mrisse M (2011) Health information exchange usage in emergency departments and clinics: the who, what, and why, *J Am Med Inform Assoc*, 2011; 18(5):690-7. PMID: 21846788.
28. Gadd CS, Ho Y-X, Cala CM, Blakemore D*, **Chen Q**, Frisse M, Johnson KB (2011) Users' perspectives on the usability of a regional health information exchange, *J Am Med Inform Assoc*, 2011; 18(5):711-6. PMID: 21622933.
29. Xu H, Fu Z, Shah A, Chen Y, Peterson NB, **Chen Q**, Mani S, Levy M, Dai Q, Denny JC (2011) Extracting and integrating data from entire electronic health records for detecting colorectal cancer cases, *AMIA Annu Symp Proc*, 2011; 1564-72. PMID: 22195222.
30. Zeng D, **Chen Q**, Chen M-H, Ibrahim JG, AMGEN RESEARCH GROUP (2011) Estimating treatment effects with treatment switching via semi-competing risks models: an application to a colorectal cancer study, *Biometrika*, 2011; 99(1):167-184. PMID: 23049136.
31. Frisse M, Johnson K, Nian H*, Davidson C, Gadd CS, Unertl K, Turri PA, **Chen Q** (2012) The financial impact of health information exchange on emergency department care, *J Am Med Inform Assoc*, 2012; 19(3): 328-33. PMID: 22058169.

Second most downloaded paper of the year in Journal of America Informatics Association

32. Muldowney JAS, **Chen Q**, Blakemore DL, Vaughan DE (2012) Pentoxifylline lowers plasminogen activator inhibitor 1 levels in obese individuals: a pilot study, *Angiology*, 2012; 63(6):429-34.
33. Smith JP, Haddad EV, Taylor MB, Oram D, Blakemore D*, **Chen Q**, Boutaud O, Oates JA (2012) Suboptimal inhibition of platelet cyclooxygenase-1 by aspirin in metabolic syndrome, *Hypertension*, 2012; 59(3):719-25.
34. Xu H, Aldrich MC, **Chen Q**, Peterson NB, Dai Q, Levy M, Shah A, Han X, Li Y, Friedman C, Liu H, Denny JC (2012) Electronic health record data suggests metformin improves cancer survival: a new model for drug repurposing studies, *J Am Med Inform Assoc*, 2015 Jan;22(1):179-91. PMID: 25053577.
35. Liu M, Shah A, Peterson NB, Dai Q, Aldrich MC, **Chen Q**, Bowton EA, Liu H, Denny JC, Xu H (2012) A study of transportability of an existing smoking status detection module across institutions, *AMIA Annu Symp Proc*, 2012; 577-86. PMID: 23304330.
36. ^aWu H, ^a**Chen Q**, Ware LB, Koyama T (2012) A Bayesian approach for generalized linear models with explanatory biomarker measurement variables subject to detection limit - an application to acute lung injury, *J Appl Stat*, 2012; 39(8): 1733-1747. PMID: 23049157.
^a **Co-first authors**
37. Holinstat M, Colowick NE, Hudson WJ, Blakemore D*, **Chen Q**, Hamm HE, Cleator JH (2012) Dichotomous effects of exposure to bivalirudin in patients undergoing percutaneous coronary intervention on protease-activated receptor-mediated platelet activation, *J Thromb Thrombolysis*, 2012; 35(2):209-22. PMID: 23054462.
38. **Chen Q**, Zeng D, Ibrahim JG, Akacha M, Schmidli H (2013) Estimating time-varying effects for overdispersed recurrent events data with treatment switching, *Biometrika*, 2013; 100(2):339-54. PMID: 24465031.
39. **Chen Q**, Chen M-H, Ohlssen D, Ibrahim JG (2013) Bayesian modeling and inference for clinical trials with partial retrieved data following dropout, *Stat Med*, 2013; 32(24): 4180-4195. PMID: 23620446.
40. Talbot HK, Zhu Y, **Chen Q**, Williams JV, Shay D, Griffin MR (2013) Effectiveness of influenza vaccine for preventing laboratory-confirmed influenza hospitalizations in adults, 2011-2012 influenza season, *Clin Infect Dis*, 2013; 56(12):1774-7. PMID:23449269.
41. Zhang Y, **Chen Q**, Chen M-H, Ibrahim JG, Zeng D, Pan Z, Xue X (2013) Bayesian analysis of survival data with semi-competing risks and treatment switching, *The 2012 ICSCA Appl Stat Symp Proc*, 2013.
42. Mulvaney SA, Ho Y-X, Cala C, **Chen Q**, Nian H*, Patterson B, Johnson KB (2013) Assessing adolescent asthma symptoms and adherence using mobile phones, *J Med Internet Res*, 2013; 15(7): PMID: 23864345.
43. Smith JC, Denny JC, **Chen Q**, Nian H*, Spickard A, Rosenbloom TS, Miller RA (2013) Lessons learned from developing a drug evidence base to support pharmacovigilance, *Appl Clin Inform*, 2013 Dec 18; 4(4):596-617. PMID: 24454585.

44. Mani S, Ozdas A, Aliferis C, Varol A, **Chen Q**, Carnevale R, Chen Y, Romano-Keeler J, Nian H*, Weitkamp J-H (2014) Medical decision support using machine learning for early detection of late onset neonatal sepsis, *J Am Med Inform Assoc*, 2014; 21(2): 326-36; PMID: 24043317.
45. Silverman H, Ho Y-X, Kaib S, Ellis W, Moffitt M, **Chen Q**, Nian H*, Gadd CS (2014) Training the next generation of physicians: a novel approach to maintaining patient and relationship centered care through EHR ergonomic training and assessment in preclerkship medical education, *Acad Med*, 2014; 89(9): 1230-4.
46. Zhang Y, Chen M-H, Ibrahim JG, Zeng D, **Chen Q**, Pan Z, Xue X (2014) Bayesian gamma frailty models for survival data with semi-competing risks and treatment switching, *Lifetime Data Anal*, 2014; 20(1): 76-105. PMID: 23543121.
47. Ho Y-X, **Chen Q**, Nian H*, Johnson KB (2014) An assessment of pharmacists' readiness for paperless labeling: a national survey, *J Am Med Inform Assoc*, 2014; 21(1): 43-8. PMID: 23523874.
48. **Chen Q**, Wu H, Ware LB, Koyama T (2014) A Bayesian approach for the Cox proportional hazards model with covariates subject to detection limit, *Int J Stat Med Res*, 2014; 3(1): 32-43. PMID: 24772198.
49. **Chen Q**, May RC, Ibrahim JG, Chu H, Cole SR (2014) Joint modeling of longitudinal and survival data with missing and left-censored time-varying covariates, *Stat Med*, 2014 33(26): 4560-76. PMID: 24947785.
50. Zhu H, Ibrahim JG, **Chen Q** (2014) Bayesian case-deletion model complexity and information criterion, *Stat Interface*, 2014; 7(4): 531-542. PMID: 26180578.
51. Fadugba OO, Wang L, **Chen Q**, Halasa NB (2014) Immune responses to pertussis antigens in infants and toddlers after immunization with multicomponent acellular pertussis vaccine, *Clin Vaccine Immunol*, 2014; 21(12): 1613-9. PMID: 25253666.
52. Jia P, Wang Q, **Chen Q**, Hutchinson KE, Pao W, Zhao Z (2014) Detection and quantification of mutation hotspots through mutation set enrichment analysis, *Genome Biol*, 2014; 15(10):489 (page 1-16). PMID: 25348067.
53. **Chen Q**, Ibrahim JG (2014) A note on the relationships between multiple imputation, maximum likelihood and fully Bayesian methods for missing responses in linear regression models, *Stat Interface*, 2014 Jul 1;6(3):315-324. PMID: 25309677.
54. **Chen Q**, Griffin MR, Nian H*, Zhu Y, Williams JV, Edwards KM, Talbot HK (2015) Influenza vaccine prevents medically attended influenza-associated acute respiratory illness in adults aged ≥ 50 years, *J Infect Dis*, 2015 Apr 1;211(7):1045-50. PMID: 25336724.
55. Talbot HK, Nian H, Zhu Y, **Chen Q**, Williams JV, Griffin MR (2015) Clinical effectiveness of split-virion versus subunit trivalent influenza vaccines in older adults, *Clin Infect Dis*, 2015; 60(8):1170-5. PMID: 25697739.
56. Xu H, Aldrich MC, **Chen Q**, Liu H, Peterson NB, Dai Q, Levy M, Shah A, Xue H, Ruan X, Li Y, Julien JS, Warner J, Friedman C, Roden DM, Denny JC (2015) Metformin reduces cancer mortality: evidence from two large electronic health care systems, *J Am Med Inform Assoc*, 2015 Jan;22(1):179-91. PMID: 25053577.

57. **Chen Q**, Zeng D, Ibrahim JG, Chen M-H, Pan Z, Xue X (2015) Quantifying time-varying hazard ratios via a class of transformations, *Lifetime Data Anal*, 2015 Apr;21(2):259-79. PMID: 25073864.
58. Cronin RM, Davis SE, Shenson JA, **Chen Q**, Rosenbloom ST, Jackson GP (2015) Growth of secure messaging through a patient portal as a form of outpatient interaction across clinical specialties, *Appl Clin Inform*, 2015 Apr 29;6(2):288-304. PMID: 26171076.
59. Shenson JA, Cronin RM, Davis SE, **Chen Q**, Jackson GP (2015) Rapid growth in surgeons' use of secure messaging in a patient portal, *Surg Endosc*, 2015 Jun 27; 30(4):1432-40. PMID: 26123340.
60. Johnson KB, Patterson BL, Ho YX, **Chen Q**, Nian H*, Davison CL, Slagle J, Mulvaney SA (2016) The feasibility of text reminders to improve medication adherence in adolescents with asthma, *J Am Med Inform Assoc*, 2016 May;23(3):449-55. PMID: 26661717.
61. Talbot HK, Nian H*, **Chen Q**, Zhu Y, Edwards KM, Griffin MR (2016) Evaluating the case-positive, control test-negative study design for influenza vaccine effectiveness for the frailty bias, *Vaccine*, 2016 Apr 4;34(15):1806-9. PMID:26930368.
62. **Chen Q**, Nian H*, Zhu Y, Talbot HK, Griffin MR, Harrell FE (2016) Too many covariates and too few cases – a comparative study, *Stat Med*, 2016 Nov 10;35(25):4546-58. PMID: 27357163.
63. Li R, Cheng Y, **Chen Q**, Fine J (2017) Quantile association for bivariate survival data, *Biometrics*, 2017; 73(2):506-516. PMID:27611718.
64. Diao G, Zeng D, Ibrahim JG, Rong A, Lee O, Zhang K, **Chen Q** (2017) Statistical design of noninferiority multiple region clinical trials to assess global and consistent treatment effects, *J Biopharm Stat*, 2017 Feb 13:1-12. PMID:28296570.
65. Chen Y, Lask TA, Mei Q, **Chen Q**, Moon S, Wang J, Nguyen K, Dawodu T, Cohen T, Denny JC, Xu H (2017) An active learning-enabled annotation system for clinical named entity recognition, *BMC Med Inform Decis Mak*, 2017 Jul 5;17(Suppl 2):82. PMID: 28699546.
66. Smith JC, **Chen Q**, Denny JC, Roden DM, Johnson KV, Miller RA (2018) Evaluation of a novel system to enhance clinicians' recognition of preadmission adverse drug reactions, *Appl Clin Inform*, 2018 Apr;9(2):313-325. PMID: 29742757.
67. Mehta VJ, Chelnis JG, **Chen Q**, Mawn LA (2018) Effect of time to operative intervention on motility outcomes following orbital floor fracture repair in children, *Ophthalmic Plast Reconstr Surg*, 2018 Jul/Aug;34(4):351-354. PMID: 28914710.
68. Hazlewood RJ, **Chen Q**, Clark FK, Kuchtey J, Kuchtey CW (2018) Differential effects of angiotensin II type I receptor blockers on reducing intraocular pressure and TGF signaling in the mouse retina, *PLoS One*, 2018 Aug 9;13(8):e0201719. PMID: 30092004.
69. Yin Z, Harrell M, Jeremy WL, **Chen Q**, Fabbri D, Malin BA (2018) The therapy is making me sick: how online portal communications between breast cancer patients and physicians indicate medication discontinuation, *J Am Med Inform Assoc*, 2018 Nov 1;25(11):1444-1451. PMID: 30380083.

70. Shah AA, Ling J, Nathan NR, Kalthorn AJ, **Chen Q**, Kammer JA, Seibold LK (2019) Long-term intraocular pressure changes after femtosecond laser-assisted cataract surgery in healthy eyes and glaucomatous eyes, *J Cataract Refract Surg*, 2019 Feb;45(2):181-187. PMID: 30471846.
71. Yin Z, Warner JL, **Chen Q**, Malin BA (2019) Patient messaging content associated with initiating hormonal therapy after a breast cancer diagnosis, *AMIA Annu Symp Proc*, 2020 Mar 4;2019:962-971. PMID: 32308893.
72. Wu Y, Warner JL, Wang L, Jiang M, Xu J, **Chen Q**, Nian H*, Dai Q, Du X, Yang P, Denny JC, Liu H, Xu H (2019) Discovery of noncancer drug effects on survival in Electronic Health Records of patients with cancer: a new paradigm for drug repurposing, *JCO Clin Cancer Inform*, 2019 May;3:1-9. PMID: 31141421.
73. Dorst MT, Anders SH, Chennupati S, **Chen Q**, Jackson GP (2019) Health information technologies in the support systems of pregnant women and their caregivers: a mixed methods study, *J Med Internet Res*, 2019 May 9;21(5):e10865. PMID: 31094327.
74. Berkowitz ST, Sternberg P, Feng X*, **Chen Q**, Patel S (2019) Analysis of anti-vascular endothelial growth factor injection claims data in US medicare part B beneficiaries from 2012 to 2015, *JAMA Ophthalmol*, 2019 Aug 1;137(8):921-928. PMID: 31219520.
75. Soysal E, Warner JL, Wang J, Jiang M, Harvey K, Jain SK, Dong X, Song HY, Siddhanamatha H, Wang L, Dai Q, **Chen Q**, Du X, Tao C, Yang P, Denny JC, Liu H, Xu H (2019) Developing customizable cancer information extraction modules for pathology reports using CLAMP, *Stud Health Technol Inform*, 2019 Aug 21;264:1041-1045. PMID: 31438083.
76. Wei Q, Chen Y, Salimi M, Denny JC, Mei Q, Lasko TA, **Chen Q**, Wu S, Franklin A, Cohen T, Xu H (2019) Cost-aware active learning for named entity recognition in clinical text, *J Am Med Inform Assoc*, 2019 Nov 1;26(11):1314-1322. PMID: 31294792.
77. Hughey JJ, Rhoades SD, Fu DY, Bastarache L, Denny JC, **Chen Q** (2019) Cox regression increases power to detect genotype-phenotype associations in genomic studies using the electronic health record, *BMC Genomics*, 2019 Nov 4;20(1):805. PMID: 31684865.
78. Rubinstein SM, Sigworth EA*, Etemad S, Martin RL, **Chen Q**, Warner JL (2019) Indication of measures of uncertainty for statistical significance in abstracts of published oncology trials: a systematic review and meta-analysis, *JAMA Network Open*, 2019 Dec 2;2(12):e1917530. PMID: 31834396.
79. Robinson JR, Carroll RJ, Bastarache L, **Chen Q**, Mou Z, Wei WQ, Connolly JJ, Mentch F, Sleiman P, Crane PK, Hebring SJ, Stanaway IB, Crosslin DR, Gordon AS, Rosenthal EA, Carrell D, Hayes MG, Wei W, Petukhova L, Namjou B, Zhang G, Safarova MS, Walton NA, Still C, Bottinger EP, Loos RJJ, Murphy SN, Jackson GP, Kullo IJ, Hakonarson H, Jarvik GP, Larson EB, Weng C, Roden DM, Denny JC (2020) Association of genetic risk of obesity with postoperative complications using mendelian randomization, *World J Surg*, 2020 Jan;44(1):84-94. PMID: 31834396.
80. Strul S, Zheng Y, Gangaputra S, Datye K, **Chen Q**, Maynard L, Pittel E, Russell W, Donahue S (2020) Pediatric diabetic retinopathy telescreening, *J AAPOS*, 2020 Feb 1;24(1):10-e1. PMID: 31940500.

81. Xu H, Li J, Jiang X, and **Chen Q** (2020) Electronic health records for drug repurposing: current status, challenges, and future directions, *Clin Pharmacol Ther*, 2020 Feb 3. PMID: 32012237.
 82. **Chen Q**, Zhang F, Chen M-H, Cong XJ (2020) Estimation of treatment effects and model diagnostics with two-way time-varying treatment switching: an application to a head and neck study, *Lifetime Data Anal*, 2020 Oct;26(4):685-707. PMID: 32125594.
 83. Zhang F, Chen M-H, Cong XJ, **Chen Q** (2020) Assessing importance of biomarkers: a Bayesian joint modeling approach of longitudinal and survival data with semicompeting risks, *Stat Modelling*, 2021 Feb 1;21(1-2):30-55. PMID: 34326706.
 84. Law JJ, Baker LX, **Chen Q**, Mawn LA, Barahimi B, Kupcha AC, Alford MA, Sobel RK (2020) Porcine urinary bladder extracellular matrix for treatment of periocular skin defects, *Ophthalmic Plast Reconstr Surg*, 2020 Jun 17. PMID: 32618823.
 85. ^aLi X, ^aSigworth EA*, Wu AH, Behrens J, Etemad SA, Nagpal S, Go RS, Wuichet K, Chen EJ, Rubinstein SM, Venepalli NK, Tillman BF, Cowan AJ, Schoen MW, Maly A, Greer JP, Fernandes HD, Seifter A, **Chen Q**, Chowdhery RA, Mohan SR, Dewdney SB, Osterman T, Ambinder EP, Buchbinder EI, Schwartz C, Abraham I, Rioth MJ, Singh N, Sharma S, Gibson MK, Yang PC, Warner JL, (2020) Seven decades of chemotherapy clinical trials: a pan-cancer social network analysis, *Sci Rep*, 2020 Oct 16;10(1):17536. PMID: 33067482.
- ^a **Co-first authors**
86. Flowers AM, Longmuir RA, Liu Y*, **Chen Q**, Donahue SP (2020) Variability within optic nerve optical coherence tomography measurements distinguishes papilledema from pseudopapilledema, *J Neuroophthalmol*, 2021 Dec 1;41(4):496-503. PMID: 33136673.
 87. Umfress AC, Flowers AM, Liu Y*, Zheng Y, **Chen Q**, Donahue SP (2021) Medial rectus advancement for secondary exotropia, *Am J Ophthalmol*, 2021 Jan 1;221:65-74. PMID: 32828876.
 88. Cronin RM, Halvorson AE, Springer C, Feng X*, Sulieman L, Loperena-Cortes R, Mayo K, Carroll RJ, **Chen Q**, Ahmedani BK, Karnes J (2021) Comparison of family health history in surveys vs electronic health record data mapped to the observational medical outcomes partnership data model in the All of Us Research Program, *J Am Med Inform Assoc*, 2021 Apr;28(4):695-703. PMID: 33404595.
 89. Wu P, Nelson SD, Zhao J, Stone C, Feng Q, **Chen Q**, Larson EA, Wilke RA, Li B, Cox N, Stein CM, Phillips EJ, Roden DM, Denny JC, Wei W (2021) DDIWAS: High-throughput electronic health record- based screening of drug-drug interactions, *J Am Med Inform Assoc*, 2021 Jul 14;28(7):1421-1430. PMID: 33712848.
 90. Siktberg J, Hamdan S, Liu Y*, **Chen Q**, Donahue SP, Patel SN, Sternberg P, Robinson J, Kammer JA (2021) Validation of a standardized home visual acuity test for teleophthalmology, *Ophthalmol Sci*, 2021 Mar 1;1(1):100007. PMID: 36246005.
 91. Berkowitz ST, Liu Y*, **Chen Q**, Patel SN (2021) Correlation between ophthalmology market saturation and medicare utilization rates, *Am J Ophthalmol*, 2021 Sep;229:137-144. PMID: 33910054.

92. Kupcha AC, Simmons BA, Law JJ, Liu Y*, **Chen Q**, Shriver EM, Brown EN, Mawn LA (2021) Association of age-adjusted charlson comorbidity index with orbital fungal disease outcomes, *Ophthalmic Plast Reconstr Surg*, 2021 Jun 4. PMID: 34085995.
93. Law JJ, Baker LX, **Chen Q**, Mawn LA, Barahimi B, Kupcha AC, Alford MA, Sobel RK (2021) Porcine urinary bladder extracellular matrix for treatment of periocular skin defects, *Ophthalmic Plast Reconstr Surg*, 2021 May-Jun 01;37(3S):S6-S10. PMID: 32618823.
94. Andreadis K, Chan E, Park M, Benda NC, Sharma MM, Demetres M, Delgado D, Sigworth EA*, **Chen Q**, Liu A, Grossman Liu L, Sharko M, Zikmund-Fisher BJ, Ancker JS (2021) Imprecision and preferences in interpretation of verbal probabilities in health: a systematic review, *J Gen Intern Med*, 2021 Dec;36(12):3820-3829. PMID: 34357577.
95. Chandler PD, Clark CR, Zhou G, Noel NL, Achilike C, Mendez L, Ramirez AH, Loperena-Cortes R, Mayo K, Cohn E, Ohno-Machado L, Boerwinkle E, Cicek M, Qian J, Schully S, Ratsimbazafy F, Mockrin S, Gebo K, Dedier JJ, Murphy SN, Smoller JW, Karlson EW; **All of Us Research Program Investigators**** (2021) Hypertension prevalence in the All of Us Research Program among groups traditionally underrepresented in medical research, *Sci Rep*, 2021 Jun 22;11(1):12849. PMID: 34158555.
** Dr. Chen is an All of Us Research Program Investigator.
96. Baxter SL, Saseendrakumar BR, Paul P, Kim J, Bonomi L, Kuo TT, Loperena R, Ratsimbazafy F, Boerwinkle E, Cicek M, Clark CR, Cohn E, Gebo K, Mayo K, Mockrin S, Schully SD, Ramirez A, Ohno-Machado L; **All of Us Research Program Investigators**** (2021) Predictive analytics for glaucoma using data from the All of Us research program, *Am J Ophthalmol*, 2021 Jul;227:74-86. PMID: 33497675.
** Dr. Chen is an All of Us Research Program Investigator.
97. Skeens R, Cavanaugh KL, Cronin R, **Chen Q**, Liu Y*, Huth H, Jackson GP (2021) Parent activation in the neonatal intensive care unit, *Am J Perinatol*, 2021 Oct 12. doi: 10.1055/s-0041-1736294. PMID: 34638138.
98. Angaramo S, Law JC, Maris AS, Schmitz JE, Liu Y*, **Chen Q**, Chomsky A (2021) Potential impact of oral flora dispersal on patients wearing face masks when undergoing ophthalmologic procedures, *BMJ Open Ophthalmol*, 2021 Oct 5;6(1):e000804. PMID: 34660909.
99. Ripperger M, Lotspeich SC, Wilimitis D, Fry CE, Roberts A, Lenert M, Cherry C, Latham S, Robinson K, **Chen Q**, McPheeters ML, Walsh CG (2021) Ensemble learning to predict opioid-related overdose using statewide prescription drug monitoring program and hospital discharge data in the state of Tennessee, *J Am Med Inform Assoc*, 2021 Dec 28;29(1):22-32. PMID: 34665246.
100. Kumah-Crystal YA, Stein PM, **Chen Q**, Lehmann CU, Novak LL, Roth S, Rosenbloom ST (2021). Before-Visit Questionnaire: A tool to augment communication and decrease provider documentation burden in pediatric diabetes, *Appl Clin Inform*, 12(05), 969-978. PMID: 34670292.
101. Robinson JL, Liu Y*, **Chen Q** (2021). Licensure and driving status among visually impaired persons, *Optom Vis Sci*, 2021 Dec 1;98(12):1334-1339. PMID: 34905521.

102. Siktberg J, Hamdan S, Liu Y*, **Chen Q**, Donahue SP, Patel SN, Sternberg Jr P, Robinson J, Kammer JA, Gangaputra SS (2021) Validation of a standardized home visual acuity test for teleophthalmology, *Ophthalmol Sci*, 2021 Mar 10;1(1):100007. PMID: 36246005.
103. Kupcha AC, Simmons BA, Law JJ, Liu Y*, **Chen Q**, Shriver EM, Brown EN, Mawn LA (2022). Association of age-adjusted charlson comorbidity index with orbital fungal disease outcomes, *Ophthalmic Plast Reconstr Surg*, 2022 Jan-Feb 01;38(1):53-58. PMID: 34085995.
104. Zhou R, Pfister T, Liu Y*, **Chen Q**, Donahue S (2022) Age does not influence the positive predictive value of vision screening to detect amblyopia risk factors, *Ophthalmology*, 2022 Feb;129(2):230-231. PMID: 34506847.
105. Wu P, Feng Q, Kerchberger VE, Nelson SD, **Chen Q**, Li B, Edwards TL, Cox NJ, Phillips EJ, Stein CM, Roden DM, Denny JC, Wei W (2022) Integrating gene expression signatures and clinical data to identify drug repurposing candidates for hyperlipidemia and hypertension, *Nat Commun*, 2022 Jan 10;13(1):46. PMID: 35013250.
106. DeRuyter NP, Patel S, **Chen Q**, Leder H, Leung E, Reddy R, Blim J, Awh CC, Hahn P (2022), Trends in medicare reimbursement for common vitreoretinal procedures: 2011 to 2020, *Ophthalmology*, 2022 Jul;129(7):829-831. PMID: 35085660.
107. Irlmeier R*, Hughey, J. J., Bastarache, L., Denny, J. C., **Chen Q** (2022). Cox regression is robust to inaccurate EHR-extracted event time: an application to EHR-based GWAS, *Bioinformatics*, 38(8), 2297-2306. PMID: 35157022.
108. Jiang Y, Zhao Y, Milne G, Dai Q, **Chen Q**, Zhang X, Lan Q, Rothman N, Gao YT, Cai Q, Shu XO, Zheng W, Yang G. (2022). Quality of dietary carbohydrate is more important than its quantity in lipid peroxidation, *Am J Clin Nutr*, 2022 Jul 6;116(1):189-196. PMID: 35170729.
109. Nelson SD, McCoy AB, Rector H, Teare AJ, Barrett TW, Sigworth EA*, **Chen Q**, Marcovitz DE, Wright A (2022) Assessment of a naloxone co-prescribing alert for patients at risk of opioid overdose: a quality improvement project, *Anesth Analg*, 2022 Jul 1;135(1):26-34. PMID: 35343932.
110. Sigworth EA*, Rubinstein SM, Chaugai S, Rivera DR, Walker PD, **Chen Q**, Warner JL (2022) Development of a Bayesian toxo-equivalence model between docetaxel and paclitaxel, *iScience*, 2022 Mar 11:104045. PMID: 35359803.
111. Turer RW, **Chen Q**, Jones ID, Gondek SP, Guillaumondegui OD, Dennis BM. COVID-19 vaccination gap in admitted trauma patients: a critical opportunity, *J Am Coll Surg*, 2022 May 1;234(5):727-735. PMID: 35426382.
112. Li M, Zhao Y, Dai Q, Milne G, Long J, Cai Q, **Chen Q**, Zhang X, Lan Q, Rothman N, Gao YT, Shu XO, Zheng W, Yang G. Lipid peroxidation biomarkers associated with height and obesity measures in the opposite direction in women, *Obesity (Silver Spring)*, 2022 Jun;30(6):1257-1267. PMID: 35471642.
113. Davanian A, Williamson L, Taylor C, Harrover A, Bollinger K, Chaudhary B, Taskar V, Lee TJ, Liu Y*, **Chen Q**, Marcus DM. Optical coherence tomography angiography and Humphrey visual field in patients with obstructive sleep apnea, *J Clin Sleep Med*, 2022 Sep 1;18(9):2133-2142. PMID: 35532117.

114. Law JJ, Hatcher JB, Mawn LA, LaRue RW, Makadia F, **Chen Q**, Liu Y*, Shieh C. Attitudes and awareness of cornea specialists and oculoplastic surgeons toward methicillin-resistant staphylococcus aureus decolonization, *Surgical Infections*, 23(6), pp.590-596. PMID: 35867008.
115. Lee IT, Chen W*, **Chen Q**, Cole HA, Bischoff LA, Jessop AC, Sobel RK. Factors associated with radioactive iodine therapy acquired nasolacrimal duct obstruction, *Endocr Pract*, 2022 Dec; 28(12):1210-1215. PMID: 35970353.
116. Miller CN, Althoff KN, Schlueter DJ, Anton-Culver H, **Chen Q**, Garbett S, Ratsimbazafy F, Thomsen I, Karlson EW, Cicek M, Pinto LA. Concordance of SARS-CoV-2 antibody results during a period of low prevalence, *mSphere*, 2022 Oct 26; 7(5):e0025722. PMID: 36173112.
117. Zhao Y, Nogueira MS, Milne GL, Guo X, Cai H, Lan Q, Rothman N, Cai Q, Gao YT, **Chen Q**, Shu XO, Yang G. Association between lipid peroxidation biomarkers and microRNA expression profiles, *Redox Biol*, 2022 Dec; 58:102531. PMID: 36335760.
118. Robinson JR, Carroll RJ, Bastarache L, **Chen Q**, Pirruccello J, Mou Z, Wei WQ, Connolly J, Mentch F, Crane PK, Hebring SJ, Crosslin DR, Gordon AS, Rosenthal EA, Stanaway IB, Hayes MG, Wei W, Petukhova L, Namjou-Khales B, Zhang G, Safarova MS, Walton NA, Still C, Bottinger EP, Loos RJJ, Murphy SN, Jackson GP, Abumrad N, Kullo IJ, Jarvik GP, Larson EB, Weng C, Roden D, Khera AV, Denny JC. Quantifying the phenome-wide disease burden of obesity using electronic health records and genomics, *Obesity (Silver Spring)*, 2022 Dec;30(12):2477-2488. PMID: 36372681.
119. Zhao Y, Milne GL, **Chen Q**, Dai Q, Zhang X, Nogueira MS, Cai H, Lan Q, Rothman N, Cai Q, Gao YT, Shu XO, Zheng W, Yang G. Association between lipid peroxidation and risk of type 2 diabetes in women, *Free Radic Res*, 2022 Dec 8;1-8. PMID: 36480242.
120. Menard M, Ji X*, **Chen Q**, Law JC, Baupal CR, Finn AP. Women's representation among lead investigators of clinical trials in ophthalmology, *Ophthalmology*, 2023 Feb; 130(2):223-225. PMID: 36332843.
121. Steita BD, Turer RW, Lin CT, MacDonald S, Salmi L, Wright A, Lehmann CU, Langford K, MacDonald SA, Reese TJ, Sternberg P, **Chen Q**, Rosenbloom ST, DesRoches CM. Perspectives of patients about immediate access to test results, *JAMA Network Open*, 2023 Mar 1;6(3):e233572. PMID: 36939703.
122. Dowling RA, **Chen Q**, Goldfischer E, Albala DM (2023) Surgical Stone Treatment: Patterns May Predict Performance on Episode Based Cost Measure in the Quality Payment Program, *Urol Pract*, 2023 Jul;10(4):301-309. PMID: 37103884.
123. Beavers J, Schell RF, VanCleave H, Dillonn RC, Simmons A, Chen H, **Chen Q**, Anders S, Weinger MB, Nelson SD. Evaluation of inpatient medication guidance from an artificial intelligence chatbot, *Am J Health Syst Pharm* 2023 Dec 5;80(24):1822-1829. PMID: 37611187.
124. ^aCronin RM, ^aFeng X*, Sulieman L, Mapes B, Garbett S, Able A, Hale R, Couper MP, Sansbury H, Ahmedani BK, **Chen Q**. Importance of missingness in baseline variables: a case study of the All of Us Research Program. *PLOS ONE*. 2023 May 18;18(5):e0285848. doi: 10.1371/journal.pone.0285848. eCollection 2023. PMID: 37200348, PMCID: PMC10194909.

^a **Co-first authors**

125. Skeens R, Cronin R, Cavanaugh K.L., **Chen Q**, Liu Y, Huth H, Jackson GP. Parent Activation in the Neonatal Intensive Care Unit. *Am J Perinatol.* 2023 Oct;40(13):1413-1420. PMID: 34638138.
126. Finn, A.P., Ji, X., **Chen Q**, Sternberg Jr, P. and Patel, S., (2023). Trends in Imaging Utilization Among United States Medicare Beneficiaries and the Impact of the COVID-19 Pandemic. *Ophthalmic Surgery, Lasers and Imaging Retina*, 54(11), pp.661-665.
127. Besagar S, Patel S, Vajzovic L, Scott AW, Ji X, **Chen Q**, Finn A. (2023) Applicant Perceptions of In-Person versus Virtual Interview Format for Surgical Retina Fellowship, *J Acad Ophthalmol* 2023 Dec 5;15(2):e271-e275. PMID: 38059192
128. Sigworth EA*, Rubenstein SM, Warner JL, Chen Y, **Chen Q** (2023) Building a dose-toxicity equivalence model from a Bayesian meta-analysis of published clinical trials, *Ann. Appl. Stat.* 17(4), pp.2993-3012.
129. Lee IT, Grice JV, Ji X, **Chen Q**, Bischoff L, Jessop AC, Barahimi B, Codere F, Mawn L, Sobel RK (2024) A Pilot Nonrandomized Controlled Trial Examining the Use of Artificial Tears on the Radioactivity of Tears after Radioactive Iodine Treatment for Thyroid Cancer, *Thyroid*, 2024 Jan;34(1):82-87. PMID: 37917111.
130. Zhao Y, Nogueira MS, **Chen Q**, Dai Q, Cai Q, Wen W, Lan Q, Rothman N, Gao Y-T, Shu X-O, Zheng W, Milne GL, Yang G (2024) Association between F2-isoprostane metabolites and weight change in older women: a longitudinal analysis. *Gerontology* 2024;70(2):134-142. PMID: 37967546.
131. Andrews HW, Lin GT, Lindsey JL, Ji X, **Chen Q**, Chomsky AS. (2024) Resident operative time as an independent predictor of early post-operative cataract surgery outcomes and supervising attending surgeon impact: a retrospective case series. *BMC Ophthalmol.* 2024 Jan 10;24(1):18. PMID: 38200502
132. Fan L, Zhu X, **Chen Q**, Huang X, Steinwandel M.D., Shrubsole M, and Dai Q (2024) Dietary medium-chain fatty acids and risk of incident colorectal cancer in a predominantly low-income population: a report from the Southern Community Cohort Study (SCCS). *Am J Clin Nutr.* 2024 Jan;119(1):7-17. PMID: 37898435
133. Tesfaye, S., Cronin, R., Lopez-Class, M., **Chen Q**, Foster, C.S., Gu, C., Guide, A., Hiatt, R.A., Johnson, A., Joseph, C.L. and Khatri, P., 2023. Measuring social determinants of health in the *All of Us* Research Program. *Sci Rep.* 2024 Apr 16;14(1):8815. doi: 10.1038/s41598-024-57410-6. PMID: 38627404
134. Richmond JR, Erves-Cunningham J, Givens B, Guide A, Barnes LK, Fair AM, Carpenter SM, **Chen Q**, Watson KS, Cohn EG, Wilkins CH. (2024) *All of Us* Participant Perspectives on the Return of Value in Research. *Genet Med.* 2024 May 9:101163. doi: 10.1016/j.gim.2024.101163. PMID: 38738530.
135. Guide A*, Sulieman L, Garbett S, Cronin RM, Spotnitz M, Natarajan K, Carroll RJ, Harris P, **Chen Q** Identifying Erroneous Height and Weight Values from Adult Electronic Health Records in the *All of Us* Research Program. *J Biomed Inform.* 2024 May 23:155:104660. doi: 10.1016/j.jbi.2024.104660. PMID: 38788889.

136. Song, Q., Ni, C., Warner, J.L., **Chen Q**, Song, L., Rosenbloom, S.T., Malin, B.A. and Yin, Z. Optimizing Word Embeddings for Patient Portal Message Datasets with a Small Number of Samples. *Res Sq.* 2024 May 15:rs.3.rs-4350387. doi: 10.21203/rs.3.rs-4350387/v1. PMID: 38798621 PMCID: PMC11118712.
137. Ni C, Song Q, **Chen Q**, Song L, Commiskey P, Stratton L, Malin B, Yin Z. (2024) Sentiment Dynamics Among Informal Caregivers in Online Alzheimer’s Communities: A Systematic Analysis of Emotional Support and Interaction Patterns *Journal of Medical Internet Research Preprints.* 29/04/2024:60050 DOI: 10.2196/preprints.60050.
138. Zuo X, Gregoriou N, Kumar A, Shen S, Li J, Cong G, Jin E, **Chen Q**, Warner J.L., Yang P, Xu H (2024) Extracting Systemic Anticancer Therapy and Response Information from Clinical Notes following the RECIST Definition. *JCO Clinical Cancer Informatics.* Accepted.
139. Strayer, N., Vessels, T., Choi, K., Zhang, W., Li, Y., Sharber, B., Hsi, R.S., Bejan, C.A., Bick, A.G., Balko, J.M., Johnson, D.B., Wheless, L.E., Wells, Q.S., Shah, R., Phillips, E.J., Self, W.H., Pulley, J.M., Wilkins, C.H., **Chen, Q.**, Hartert, T., Savona, M.R., Shyr, Y., Roden, D.M., Smoller, J.W., Ruderfer, D.M., Xu, Y. Interoperability of phenome-wide multimorbidity patterns: a comparative study of two large-scale EHR systems. medRxiv [Preprint]. 2024 Mar 30:2024.03.28.24305045. doi: 10.1101/2024.03.28.24305045.

Invited Discussion

1. **Chen Q**, Harrell FE (2019) Comment: penalized spline of propensity methods for treatment comparison, *Journal of the American Statistical Association* 2019 January; 114(525):28-30.

Letters to the Editor

1. **Chen Q**, Nian H, Zhu Y, Talbot HK Reply to Letter to the Editor: Reply to Sullivan et al. *Vaccine* 2016; 34(39), 4647–8. PMID:27578297.
2. Dowling RA, **Chen Q**, Goldfischer E, Albala DM (2023) Reply by Authors to Editorial Commentary by Alec Koo on “Surgical Stone Treatment: Patterns May Predict Performance on Episode Based Cost Measure in the Quality Payment Program”, *Urol Pract*, 2023 May 5;101097UPJ000000000000040702. doi: 10.1097/UPJ.0000000000000407.02.

Patent

1. Method for Differentiating Between Papilledema and Pseudopapilledema in a Subject.VU Reference No.: VU20060P1 - 11672N-20060P
2. Scalable Risk Prediction Using Statewide Prescription Data. VU Reference No.: VU22076P1 - 222230-8360

Presentations

Invited Presentations

1. Generalized Mixed Model in Splus/R, Western Psychiatric Institute and Clinic, University of Pittsburgh, PA (August 2001).
2. Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems, University of Connecticut, Storrs, CT (February 2005).
3. Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems, Vanderbilt University, Nashville, TN (March 2005).
4. Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems, University of Florida, Gainesville, FL (March 2005).
5. Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems, University of Michigan, Ann Arbor, MI (April 2005).
6. Small Sample and Asymptotic Relationships between Multiple Imputation, Maximum Likelihood and Fully Bayesian Methods for Missing Data in Linear Regression Models, Joint Statistical Meeting, Minneapolis, MN (August 2005).
7. Statistical Modeling – An Example of Respiratory Syncytial Virus (RSV) Study, Meharry University, Nashville, TN (October 2008).
8. Sieve Maximum Likelihood Estimation for Regression Models with Covariates Missing at Random, IMS-China Conference, Weihai, Shangdong, China (July 2009).
9. An Alternative Double Robust Method for Estimating Population Means from Imcomplete Data, George Mason University, Fairfax, VA (April 2010).
10. Gamma Frailty Transformation Models for Multivariate Survival Times, National University of Singapore, Singapore (May 2010).
11. Estimating treatment effects with treatment switching via semi-competing risks models: an application to a colorectal cancer study, International Chinese Statistical Association, Boston, MA (June 2012).
12. Estimating treatment effects with treatment switching via semi-competing risks models: an application to a colorectal cancer study, University of Indianapolis, Indianapolis, IN (November 2012).
13. Estimating treatment effects with treatment switching via semi-competing risks models: an application to a colorectal cancer study, University of Pittsburgh, Pittsburgh, PA (November 2012).
14. Estimating treatment effects with treatment switching via semi-competing risks models: an application to a colorectal cancer study, The University of Texas Health Science Center at Houston, Houston, TX (January 2014).
15. Estimating Time-varying Effects for Overdispersed Recurrent Events Data with Treatment Switching, Joint Applied Statistics Symposium of International Chinese Statistical Association & Korean International Statistical Society, Portland, OR (June 2014).

16. Too Many Covariates and Too Few Cases? University of North Carolina at Chapel Hill, Chapel Hill, NC (August 2015).
17. Treatment Effect Estimate and Model Diagnostics with Time-Varying Treatment Switching, Eastern North American Region, Austin, TX (March 2016).
18. Treatment Effect Estimate and Model Diagnostics with Time-Varying Treatment Switching, International Chinese Statistical Association, Atlanta, GA (June 2016).
19. Joint Modeling of Longitudinal and Survival Data with Missing and Left-Censored Time-Varying Covariates, Joint Statistical Meeting, Chicago, IL (August 2016).
20. Quantifying the Average of the Time-varying Hazard Ratio via a Class of Transformation, Conference on Lifetime Data Science, Storrs, CT (May 2017).
21. Treatment Effect Estimate and Model Diagnostics with Two-way Time-Varying Treatment Switching: an application to a head and neck study, Department of Bioinformatics and Biostatistics, University of Louisville, KY (October 2017).
22. Learning Maternal Smoking Effect on Childhood Bronchiolitis from TennCare, Eastern North American Region, Atlanta, GA (March 2018).
23. Bayesian Large Scale Inference for Time to First Event of Multivariate Ordinal Survival Outcomes with Application to TennCare Cohort Study, International Chinese Statistical Association, New Brunswick, NJ (June 2018).
24. Improving Data Quality for Time-varying Measurements in EHRs via Dynamic Interaction: a Case Study for Growth Chart, Joint Statistical Meeting, Vancouver, Canada (July 2018).
25. Repurposing Statistical Tools to Improve Data Quality for Longitudinal Measurements in "EHRs: a Case Study from Growth Charter Midwest Biopharmaceutical Statistics Workshop, Indianapolis, IN (May 2019).
26. Treatment Effect Estimate and Model Diagnostics with Two-way Time-Varying Treatment Switching: An Application to a Head and Neck Study, LiDS, Pittsburgh, PA (May 2019).
27. Repurposing Statistical Tools to Improve Data Quality for Time-varying Measurements in EHRs via Dynamic Interaction: a Case Study for Growth Chart, International Chinese Statistical Association, Chapel Hill, NC (June 2019).
28. Discussion "Penalized Spline of Propensity Methods for Treatment Comparison", Joint Statistical Meeting, Denver, CO (July 2019).
29. Too Many Covariates and Too Few Cases? International Chinese Statistical Association, 2020 Applied Stat Symposium, Houston, TX (moved to virtual later) (December 2020).
30. Estimation of Treatment Effects and Model Diagnostics with One-way or Two-way Time-Varying Treatment Switching: Application to Cancer Studies, Bristol Myers Squibb, online (January 2021)
31. Co-discussion "Treatment Effect Estimate and Model Diagnostics with Two-way Time-Varying Treatment Switching: An Application to a Head and Neck Study", U.S. Food and Drug Administration, online (March 2022).

32. Treatment Effect Estimate and Model Diagnostics with Two-way Time-Varying Treatment Switching: An Application to a Head and Neck Study, International Chinese Statistical Association-Canada, Banff, Canada (July 2022).
33. Missing Data in the Baseline Health Surveys of the All of Us Research Program and the Opportunity from Multiple Information Sources, Joint Statistical Meeting, Washington, DC (August 2022).
34. Growing biostatistics and data science education programs: The Vanderbilt experience, Eastern North American Region, Nashville, TN (March 2023).
35. Cox regression is robust to inaccurate EHR-extracted event time: an application to EHR-based GWAS, The 8th Workshop on Biostatistics and Bioinformatics, Atlanta, GA (May 2023).
36. Treatment Effect Estimate and Model Diagnostics with Two-way Time-Varying Treatment Switching: An Application to a Head and Neck Study, The ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, Rockville, MD (Sept 2023).
37. Panel discussant at “Impact of Cross-over in the Evaluation of Overall Survival in Randomized Cancer Clinical Trials”, American Statistical Association Biopharmaceutical Section (Oct 2023).
38. Empowering Insights in the *All of Us* Research Program: A Statistical Perspective on the Transformational Role of AI and ML, 2024 Annual Symposium on Risks and Opportunities of AI in Pharmaceutical Medicine (Generative AI in Medical Research & Drug Development: Hype or Reality?) Boston, MA (June 2024).
39. Discussion of ‘innovative and applied methods in design and analysis of oncology trials on the time-to-event endpoints’. 2024 International Chinese Statistical Association Applied Statistics Symposium. Nashville, TN (June 2024).
40. Unveiling the Effectiveness and Robustness of Cox Regression in EHR-Based GWAS. 13th World Gene Convention. Dublin, Ireland. (October, 2024).

Contributed Presentations

1. Semiparametric Models for Missing Covariates in Regression Models, Eastern North American Region Meeting, Pittsburgh, PA (March 2004).
2. Semiparametric Models for Missing Covariates in Generalized Linear Mixed Models, Joint Statistical Meeting, Toronto, Canada (August 2004).
3. Small Sample and Asymptotic Relationships between Multiple Imputation, Maximum Likelihood and Fully Bayesian Methods for Missing Data in Linear Regression Models, Eastern North American Region, Austin, TX (March 2005).
4. Sieve Maximum Likelihood Estimation for Missing Covariates in Regression Models, Eastern North American Region, Tampa, FL (March 2006).
5. Sieve Maximum Likelihood Estimation for Missing Covariates in Regression Models, Joint Statistical Meeting, Seattle, WA (August 2006).

6. A Bayesian Approach for Generalized Linear Model with an Explanatory Biomarker Measurement Variable Subject to Detection Limit – an Application to Acute Lung Injury Eastern North American Region, Miami, FL (March 2011).
7. A New Approach to Adjust for Verification Bias in Assessment of Binary Diagnostic Tests Eastern North American Region, Washington DC (April 2012).
8. Too Many Covariates and Too Few Cases? – A Comparative Study Joint Statistical Meeting, San Diego, CA (August 2012).
9. Too Many Covariates and Too Few Cases? – A Comparative Study Eastern North American Region, Orlando, FL (March 2013).

Intramural Presentations

1. An Alternative Double Robustness Method for Estimating Population Means from Incomplete Data, (October 2006).
2. Gamma Frailty Transformation Models for Multivariate Survival Times, (December 2009).
3. Too Many Covariates and Too Few Cases? – A Comparative Study, (June 2011).
4. Estimating treatment effects with treatment switching via semi-competing risks models: An application to a colorectal cancer study, (May 2012).
5. Estimating Time-varying Effects for Overdispersed Recurrent Events Data with a Cross-over Design, (January 2013).
6. Finding the Needles in a Haystack: A Journey to Improve Data Quality in EHRS, (May 2019).

May 27, 2024