RUTGERS UNIVERSITY – SCHOOL OF PUBLIC HEALTH

CURRICULUM VITAE

<u>Shou-En Lu, PhD</u>

Date: May 31, 2022

PRESENT TITLE: Associate Professor, Department of Biostatistics,
Rutgers School of Public Health.

ADDRESS: Department of Biostatistics and Epidemiology
Rutgers School of Public Health
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EDUCATION:

1993   B.S. National Taiwan University (Mathematics), Taipei, Taiwan
2001   PhD. Johns Hopkins University (Biostatistics), Baltimore, MD, USA

ACADEMIC AND ADMINISTRATIVE APPOINTMENTS:

<u>Primary Faculty Appointments</u>

2000-2007   Assistant Professor, Department of Biostatistics, Rutgers School of Public Health
2007-Present   Associate Professor, Department of Biostatistics and Epidemiology, Rutgers School of Public Health
2013-Present   Associate Professor with Tenure, Department of Biostatistics and Epidemiology, Rutgers School of Public Health

<u>Administrative Appointments</u>

2006-2013   Assistant Dean for Student and Alumni Affairs, Rutgers School of Public Health
2017-2018   Interim Chair, Department of Biostatistics, Rutgers School of Public Health
2020   Co-Director, Biostatistics Shared Resource, Rutgers Cancer Institute of New Jersey
2020-2021   Interim Director, Biostatistics Shared Resource, Rutgers Cancer Institute of New Jersey

<u>Other Appointments</u>

2001-present.   Associate Member, Faculty of the Graduate School-New Brunswick, Rutgers University
2005-present   Assistant Professor (2005-2007), Associate Professor (2007- present), Division of Environmental Epidemiology and Statistics, Rutgers Environmental and Occupational Health Sciences Institute.
2008-present   Associate Professor, Department of Psychiatry, Rutgers Robert Wood Johnson Medical School

HONORS AND AWARDS:

2001   Phi Beta Kappa Honorary Society
2006   Delta Omega Honorary Society in Public Health
2006   UMDNJ Foundation excellence in Teaching Award

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

1999- Member of American Statistical Association
1999- Member of International Biometric Society
2000- Member of International Chinese Statistical Association
2002- Member of Xigma Xi, The Scientific Research Society

SERVICE ON JOURNALS/PUBLICATIONS:

Journal article referees

Annals of Applied Statistics, Biometrics, Statistics in Medicine, Lifetime Data Analysis, Statistica Sinica, Controlled Clinical Trials, Statistics in Biopharmaceutical Research, Computational and Mathematical Methods in Medicine, Contemporary Clinical Trials Communications, Environmental Health Perspectives, Diabetes & Metabolism, Diabetology & Metabolic Syndrome, Epidemiology and Community Health, Human and Ecological Risk Assessment, Applied Psychophysiology and Biofeedback

SERVICE ON REVIEW PANELS

2011-   Grant reviewer for the National Medical Research Council, Singapore
2020   NIH/NCI grant reviewer: SEP-9 Provocative Questions Review Meeting.

SERVICE TO THE COMMUNITY:

2003-2004   Secretary, American Statistical Association New Jersey Chapter
2004-2005   Vice President, American Statistical Association New Jersey Chapter
2004   Program Committee of the American Statistical Association-NJ 25th Spring Symposium on "Advances in Survival Analysis Methods for Clinical Trials".
2005   Program Committee of the American Statistical Association-NJ 26th Spring Symposium on "Statistical Data Mining".
2016-2017   President Elect, American Statistical Association Princeton-Trenton Chapter
2016   Local Planning Committee of the American Statistical Association Traveling Short Course, "Statistical Issues in Design and Analysis of Pragmatic Clinical Trials"
2017   Local Planning Committee of the American Statistical Association Traveling Course, "Adaptive Designs: Overview, Hurdles, and Examples".
2017-2018   President, American Statistical Association Princeton-Trenton Chapter
2018   Local planning committee for American Statistical Association Traveling Course on "Randomized Clinical Trials – Replacing Traditional Analyses with Better Alternatives"
2018   Planning Committee for the American Statistical Association Princeton-Trenton Chapter Spring Symposium "Real World Data, Where Statistical Science Meets Artificial Intelligence

2018-2021	Council Representative, the American Statistical Association Princeton-Trenton Chapter
2019	Planning Committee for the American Statistical Association Princeton-Trenton Spring Symposium on "Incorporating Real World Evidence in Regulatory Decision Making
2019	Local planning committee for the American Statistical Association traveling course on "Analysis of Big Healthcare Databases"
2020	Planning committee for the American Statistical Association-Princeton Trenton Spring Symposium on "Clinical Trial with Survival Outcome & Go/No Go Decisions.
2020	Local planning committee for ASA traveling course on "Guidelines for Using State-of-the-Art Methods to Estimate Propensity Score and Inverse Probability of Treatment Weights When Drawing Causal Inferences".

GRADUATE STUDENT MENTORED

<u>PhD/DrPH Dissertation Advisor</u>

1. Junwu Shen, PhD Biostatistics, 2011. "Finite Mixture Regression Models and Applications: Detection Limit and Goodness-of-fit".

2. Pin-Wen Wang, PhD Biostatistics, 2012. Two-Stage Winner Designs for Non-Inferiority Trials. (Co-Advisor with Dr. Yong Lin)

3. Carlin Brickner, DrPH Biostatistics, 2014. Estimating The Relationship Between a Transient Effect and the Onset of an Acute Event: A comparison of a Case-Cross-over Design and A Retrospective Cohort Design (Co-Advisor with Dr. Dirk Moore)

4. Yanping Chen, PhD Biostatistics, 2020. A Two Stage Enrichment Design in Clinical Trials with Survival Outcomes. (Co-Advisor with Dr. Yong Lin)

5. Wei Wang, PhD Biostatistics, 2021. Multivariate Survival Analysis in Big Data: A divide-and-conquer approach.

<u>PhD/DrPH Dissertation Committee Member</u>

1. Kristian Kahler, PhD Epidemiology, 2006, "Mortality and Hypoglycemic Drug Use Among Patients with Diabetes in the Veterans Health Administration."
2. Tomoko Udo Schaller, PhD Health Education and Behavioral Science, 2009, "Emotional Regulation and Motivation to Drink: Gender, Negative Emotionally, Behavioral Undercontrol, and Family History."
3. Yen-Hong Kuo, PhD Biostatistics, 2010 "Parameter Estimation from Grouped Data with Applications to Meta-Analysis."
4. Yu Wu, PhD Biostatistics, 2010, "Extension of Cure Rate Model When Cured is Partially Known."
5. Rose Marie, PhD Epidemiology, 2010, "Trends in Cancer and Development of AIDS in HIV-Infected."
6. Fang Fang, PhD Biostatistics, 2011, "Methods of Evaluation of Performance of Adaptive Designs on Treatment Effect Intervals and Methods of Designing Two-Stage Winner Designs with Survival outcome."
7. Yuhui ma, DrPH, 2011, "Maximally Selected Test Statistics: Methodology and Application."

8. Gina Gifkins, PhD Epidemiology, 2011, "Antioxidants and Cancer of the Endometrium and Ovary."
9. Darios Getahun, PhD Epidemiology, 2012, "Ischemic-Hypoxic Perinatal Conditions and Attention Deficit Hyperactivity Disorder."
10. Melony King, PhD Epidemiology, 2012, "Consumption of Sugary Foods and Drinks and Risk of Endometrial and Ovarian Cancers."
11. Lisa Paddock, PhD Epidemiology, 2012, "Gender, Age and Screening Differences in Individuals diagnosed with Malignant Melanoma in the United States."
12. Sri Ram Pentakota, PhD Epidemiology, 2013, "Impact of Chronic Comorbid Illnesses on Diabetes Care Among Veterans with Type 2 Diabetes Mellitus".
13. Lixian Peng, PhD. Biostatistics, 2015 "Design of Primary and Sensitivity Analyses for Handling Non-Future Dependence missing Data in Clinical Trials with an Emphasis on the Type-I Error Rate Using Multiple Imputation and Pattern Mixture Model Approach."
14. Jungyu Huang. PhD. Biostatistics, 2021, "Current Topics on Treatment Comparison for Survival Endpoints with Non-Proportional Hazards".
15. Peng Zhang, PhD, 2022, "Monitoring Ongoing Clinical Trials under Fractional Brownian Motion with Linear Drift".

Mentors of Biostatistics Masters Capstone Projects

1. Janet Huang, MPH, 2002, "Clustering of neonatal deaths in triplet pregnancies in the United States: an application of conditional response logistic regression models."
2. Christine Han, MS, 2005. "Right-Truncated failure time data analysis."
3. Liping Huang, MS, 2007. ""Using Zero-Inflated and Hurdle Models to Analyze Count Data with Many Zeros for Modeling Hospitalization Events among Patients with Rheumatoid Arthritis."
4. Pamela Lauber, MS, 2008, "Using Receiver Operating Characteristic Curves for Repeated Measure Data."
5. Urvi Gandhi, MS, 2008, "Effects of Weigting and Clustering for Use in Multilevel Models."
6. Suzy Yang, MPH Biostatistics, 2009, "Identifying Smoking Intensity Patterns."
7. Fan Wu, MS, 2010, "Evaluation of Statistical Methods for Variable Selection under Cox Proportional Hazards Models."
8. Yanping Chen, MS, 2015, "Is Pain Associated with Survival in Patients with Metastatic Castration-Resistant Prostate Cancer: A Joint Analysis of Longitudinal and Survival Data."
9. Lixiao Su, MS, 2016, "Sensitivity Analysis for Informative Censoring in Parametric Survival Models."
10. Zijie Shen*, MS, 2016, "Confidence Limits for the Mediation Effect."
11. Xizhi Luo*, MS, 2016, "A General Approach to Causal Mediation Analysis and Its Application to Biofeedback in Treating Asthma Project."
    *These two papers have been presented as a poster presentation in the 47th Association for Applied Psychophysiology and Biofeedback (AAPB) Scientific Meeting in Seattle, WA, March 2016; both students received AAPB Student Travel Scholarship Award
12. Wei Wang**, MS, 2016, "Latent Class Mixed Model for Joint Analysis of Longitudinal Pain Score and Survival Data."
    **This paper has been presented in a moderated poster session at the American Urological Association, May 12-May 16, 2017, Boston, MA.
13. Zhenglan Wan, MS, 2016, "An Application of Multivariate Technique for Multiply Imputing Missing Values Using a Sequence of Regression Models."
14. Qiaohong Hu, MS, 2017, "Variable Selection for Cox Proportional Hazards Models."
15. Han Wan, MS, 2018, "A comparison of the adherence to two types of Continuous Positive Airway Pressure (CPAP vs. CPAPFLEX) with different nasal pathology in World Trade Center Responders with Obstructive Sleep Apnea.

16. Yingfeng Chen, MS, 2018, "The Influence of Individual Comorbidities on Sleep Symptoms in the World Trade Center (WTC) Responders with multiple Comorbidities: A Cohort Study.
17. Jayashree Sampath, MS, 2019, "Factors that influence prediction of prices for residential properties, using Advanced Regression Techniques."
18. Pinhsien Lin, MS, 2021, "Cognitive impairment in World Trade Center Responders".
19. Daniel Yen, MS, 2022, "Using variable selection to identify the characteristics of mindfulness therapy participants".
20. Chang-Han Lin, MS, 2022, "Association between digital health seeking behavior and precision oncology willingness – A method combines variable selection and multiple imputation in noncomplete data set."

Supervisor for Epidemiology Masters Student Projects

1. Melissa Vezina, MPH Epidemiology, 2005 "Adjusting for Comorbidity in the Assessment of Asthma Outcomes: A Comparison of Methods."
2. Elizabeth Marrett, MPH Epidemiology, 2006, "The Potential of Statins for the Reduction of In-hospital Myocardial Infarction in Patients Undergoing Major Non-cardiac Surgery."

TEACHING RESPONSIBILITIES:

Curriculum Design and Primary Instructor
　　Regression Method for Public Health Studies
　　　　Spring 2001, Spring 2002, Spring 2003, Fall 2003, Fall 2004, Fall 2005, Spring 2011.
　　Introduction to Biostatistics
　　　　Fall 2001.
　　Lifetime Data Analysis
　　　　Spring 2004, Spring 2005, Spring 2006, Spring, 2010.
　　Biostatistics Theory (I)
　　　　Fall 2006, 2007, 2008, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019
　　Biostatistics Theory (II)
　　　　Spring 2007, 2008, 2009, 2012, 2013, 2014, 2015, 2016, 2017, 2019, 2021
　　Advanced Theory I
　　　　Fall 2019
　　Independent study: Advanced survival analysis, Fall 2017

Co-Instructor
　　Advanced Theory (I) Spring 2009.
　　Advanced Regression Methods for Public Health Studies Spring 2022

RESEARCH GRANTS:

A. **Currently Active Grants**:

A.1 Principal Investigator:
A.1.1 Subawards of Federally Funded Grants:

1. NU88EH2019000107 (PI: Fan, Site/Subaward PI: Lu) 9/01/19-8/31/24
　　CDC
　　Title: New Jersey Biomonitoring - Improving Public Health

2. R56MH121555 (PI: McAndrew, Site/Subaward PI: Lu) 05/20/20-04/30/22; No cost-extension 05/20/22-04/30/23
   NIMH
   Title: Suicide Prevention for Patients with Chronic Pain

3. HX002835 (PI: McAndrew, Site/Subaward PI: Lu) 06/01/20-05/31/24
   US Department of Veterans Affairs Health Services Research and Development (HSR&D)
   Title: Collaborative Specialty Care for Gulf War Illness

4. I01 RX003254 (PI: McAndrew, Site/Subaward PI: Lu) 04/01/20-03/31/24
   US Department of Veterans Affairs Health Services Research and Development (HSR&D)
   Title: Health Coaching for Chronic Multi-symptom Illness

A.2 Co-Investigator

5. UG3DE028860/UH3DE028860 (PI: Feldman) 8/1/19-7/31/24
   NIDCR
   Opioid Analgesic Reduction Study (OARS): Managing Acute Post-Operative Surgical Pain
   Role: Leader for the statistical and data quality core

6. P01 CA250957-01A1 (PI: Shen) 05/01/2021 – 04/30/2026
   NCI/NIH
   Mechanisms of the BRCA-network in tumorigenesis and therapeutic response
   Role: Admin Core and Project 2

7. U01 OH011852 (PI: Ayappa) 07/1/21-06/30/26
   NIOSH/CDC
   Role of Sleep Apnea in Cognition and Alzheimer's Disease Biomarkers in WTC Responders

8. R01ES031285 (PI: Stapleton) 01/01/21-10/31/25
   NIEHS
   Microvascular Mechanisms of Growth Restriction after Environmental Toxicant Exposure

9. EMW-2019-FP-00517 (PI: Graber) 09/28/20-09/27/24
   FEMA
   Cancer Risk and Risk Factors in Volunteer Firefighters: The Cancer Assessment and Prevention Study (CAPS)

10. R21/33 AT010109 (PI: Cooperman) 10/1/18-9/31/23
    NCCIH
    Mindfulness Oriented Recovery Enhancement as an Adjunct to Methadone Treatment for Opioid Use and Chronic Pain.

11. 2021 Pilot Grant (PI: Niu) 06/30/2021-6/30/23
    New Jersey Commission on Cancer Research
    Understanding sun protection and skin examination practices among Hispanics

12. 1K99MD016435-01A1 (PI: Niu) K99: 2022-2024; R00: 2024-2027
    Developing and testing a mobile health intervention to promote sun protection behaviors and skin examination among Hispanics

Assistance Listing Program Title: Minority Health and Health Disparities Research
Role: Co-Mentor

13. 3P30CA072720 (PI: Libutti) 03/01/11–02/28/24
NCI, Cancer Center Support Grant

14. 5UL1TR003017-02 (PI: Panettieri) 03/11/19 - 02/29/24
NIH, New Jersey Alliance for Clinical and Translational Science: NJ ACTS-BERD/Reg

B. Completed Research Grants

B.1 Principal Investigator

B.1.1 Subawards of Federally Funded Grants:

15. 1R21AG049348 (PI: Osario, Site/Subaward: Lu) 8/1/015-5/31/2017
NIA
Title: Brain Sleep Clearance of Amyloid-Beta Peptides Study (Brain SCRAPS)

16. I01 CX001053 (PI: McAndrew, Site/Subaward PI: Lu) 07/01/14-06/30/18
US Department of Veterans Affairs Health Services Research and Development (HSR&D)
Title: Cognitive Rehabilitation for Gulf War Illness

17. R34MH087679 (PI: Feldman, Site/Subaward PI: Lu) 12/01/09 – 11/30/12
NIMH
Title: Adaptation of a behavioral treatment for Latinos with panic disorder and asthma

B.1.2 Contracts:

18. US Department of Veterans Affairs Health Services 09/27/19-09/26/20
Title: Analysis of Veteran's Post Deployment Health

19. New Jersey Department of Health and Senior Service 5/1/2009 - 7/30/2010
Title: Repeated Measures Analysis of ABLES Data

20. New Jersey Veterans Health Administration 8/1/2008-12/31/2008, 6/30/2009-6/29/2010, 10/1/2010-9/30/2013
Title: Diabetes and Mental Health Interventions at the Veterans Health Administration

21. New Jersey Veterans Health Administration   7/1/10-12/31/12
Title: Renal Disease & Amputation Work Group

B.1.3 Rutgers Internal Projects:

22. Rutgers SPH Exploratory Research Grant 04/01/2001-09/30/2001
Title: Developing statistical methodology for Cohort Case-Control Design and Analysis for Clustered Data.
23. NIEHS CEED pilot project. (Co-PI: Meng and Lu) 06/01/13 – 03/31/14
Title: Associations between Air Pollution and Diabetes Risk among Young Adults.

B.2 Co-investigator

24. U01 OH011481 (PI: Ayappa/Sunderram) 7/1/18-06/30/21
    NIOSH/CDC
    Exploring mechanisms of obstructive sleep apnea (OSA) in WTC Responders

25. Laura and John Arnold Foundation (PI: Cooperman) 3/1/18-2/28/22
    Emergency Department Peer Recovery Support for Opioid Overdose Survivors

26. 1U88EH001151-01 (PI: Parsa/Weisel) 9/1/17-8/31/19
    CDC
    Accessing the Impact of Perfluorinated Compounds, Metals, Pesticide, PCBS on the Citizens of New Jersey.

27. HITEP140016-01-00 (PI: Rosen) 9/15/2014-9/14/2016
    Assistant Secretary for Preparedness & Response
    ASPR Collaborative Scientific Research Related to Recovery from Hurricane Sandy: Tree Hazards

28. 1U01 OH010622-01 (Contact PI: Lumia, Center PI: Marshall) 9/30/13-9/29/15
    CDC and NIOSH
    Evaluating the Needs, Knowledge and Health Impacts of Three Worker Populations During and After Super-storm Sandy and Occupational Health Surveillance

29. 1U01OH010415-01 (PI: Sunderram) 09/01/2012-8/31/2017
    CDC and NIOSH
    Obstructive Sleep Apnea in World Trade Center Responders: Role of Nasal Pathology

30. NIEHS pilot project application (PI: Welsh and Meng) 07/09/12 – 03/31/13
    Predicting Oxidative Potential of Toxic Airborne Transition Metals: A Novel QICAR Approach.

31. R34DA030652-01A1 (PI: Steinberg) 09/30/11 – 9/29/14; No-cost Extension: 9/30/14-9/29/15
    NIDA
    Persistence Targeted Smoking Cessation.

32. R01HL089495-01 (PI: Lehrer) 02/01/10 – 01/31/14, No-cost extension 2/1/14-7/31/15
    NHLBI
    Heart Rate Variability Biofeedback: Its Role in Asthma Therapeutics

33. U58/DPP002644 (PI: Crosson, Years1 and 2, Lu, Year 3) 7/12/2010 - 7/11/2013
    CDC and NIDDK
    Translating Research into Actions Into Diabetes (TRIAD) Legacy

34. R01-DA024640-01A1 (PI: Williams) 8/1/2009-12/31/2010
    NIDA
    Double-Blind, Placebo-Controlled Trial of Nicotine Nasal Spray as an Aid

35. 2P30ES005022 (PI: Zarbl) 4/01/09 – 01/31/2020
    Research Center in Environmental Health Science
    Role: Statistician

36. R01ES015864-01A1 (PI: Zhang) 1/15/2008-11/30/2010
    NIEHS
    Responses to Drastic Changes in Air Pollution: Reversibility and Susceptibility

37. R01-MH076672-01A1 (PI: Williams) 8/1/2008-7/31/2010
    NIMH
    Nicotine Intake in Schizophrenia

38. R01-MH076672-01A1 (PI: Williams) 8/1/2008-7/31/2010
    NIMH
    Nicotine Intake in Schizophrenia

39. 4760-RFPA05-3/07-1 (PI: Zhang) 7/1/2007- 6/30/2010
    Health Effect Institute
    Molecular and Physiological Response to Drastic Changes in PM Concentration and Composition

40. 5R01GM034695-26 (PI: Lowry) 4/1/06-3/31/11
    NIGMS
    Hormone and cytokine regulation of endotoxin injury
41. U58/CCU22352 (PI: Lasser) 2/1/04 -1/31/10
    CDC and NIDDK
    Translating Research Into Action for Diabetes (TRIAD) Study

42. FAA05-G-004 (Lehrer & Karavidas) 4/01/05-4/30/08
    Federal Aviation Administration
    The Use of Physiological Monitoring for Simulated Flight Conditions

43. PO1-ES11256-02 (PI: Lambert) 10/01/01-08/31/06
    NIEHS
    Center for Childhood Neurotoxicogy and Assessment

44. R829391 (PI: Lambert) 11/01/01-10/31/06
    Environmental Protection Agency
    Center for Childhood Neurotoxicogy and Assessment

45. 551731-RQ1731 (PI: Weisel) 09/01/03 - 12/31/05
    New Jersey Department of Environmental Protection
    Development of Health-Based Indicators for Particulate Matter (PM) / Interactions with other
    Criteria Air Pollutants and Adverse Health Effects in NJ

46. ES 05022-16S1 (PI: Gallo) 04/01/03 - 03/31/04
    NIEHS
    World Trade Center (WTC) Supplement

47. R21MH58196 (PI: Lehrer) 02/01/2001-08/14/2003
    NIMH
    A psychological treatment for comorbid asthma and panic disorder.

48. R01HL58805 (PI: Lehrer) 02/01/2001-04/30/2002

PUBLICATIONS:

A. <u>Statistical methodology manuscripts recently accepted for publication, submitted or in preparation</u>

† Biostatistics doctoral student advisee

1. **Wang W**†, **Lu S-E**, Cheng JQ, Xie M, Kostis JB. Multivariate survival analysis in big data: A divide-and-combine approach. <u>Biometrics</u>. 2021 Apr 13. doi: 10.1111/biom.13469. Epub ahead of print.

2. **Lu S-E**, Kim S, Cheng JQ, Lin CF. Goyal S, Jabbour, J. Joint Effect Selection in Generalized Linear Mixed Model Analysis (submitted).

3. **Chen YP**†, Lin Y, **Lu S-E**, WJ Shih, Quan H. Two-stage clinical trial design with survival outcomes and adjustment for misclassification in predictive biomarkers. (submitted).

4. **Lu S-E**, Lin Y, Kim S, Lin CF, Evans A. A simple and unified variable selection approach in multiply imputed datasets. (In preparation).

5. **Chen YP**†, **Lu S-E**, Lin Y, WJ Shih, Quan H. Two-stage enrichment clinical trial design with survival outcomes and adjustment for misclassification in predictive biomarkers (In preparation).

B. <u>Peer-reviewed Journal Articles</u>

† Biostatistics doctoral student advisee

1. Moser, A., Kreiter, N., Bezman, L., **Lu, S.-E.**, Raymond, G., Naidu, S. and Moser, J. " Plasma Very Long Chain Fatty Acids in 3,000 Peroxisome Disease Patients and 29,000 Controls." <u>Annals of Neurology</u>, Vol. 45, 100-110, 1999.

2. Moser, H., Loes, D.J., Melhem, E.R., Raymod, G.V., Bezman, L., Cox, C., **Lu, S.-E.** "X-linked Adrenoleukodystrophy: Overview and Prognosis as a Function of Age and Brain Magnetic Resonance Imaging Abnormality. A study Involving 372 patients." <u>Neuropediatrics</u>, 31:1-14, 2000.

3. Moser, H.W., Bezman, L., **Lu, S.-E.**, Raymond, G.V.. "Therapy of X-linked Adrenoleukodystrophy, Prognosis based upon age and MRI abnormality and plans for placebo controlled trials." <u>Journal of Inherited Metabolic Disease</u>, 23: 273-277, 2000.

4. **Lu, S.-E.** and Wang, M.-C. "Cohort case-control design and analysis for clustered failure time data." <u>Biometrics</u>, 58:764-772, 2002.

5. Ohman-Strickland, P. and **Lu, S.-E.** "Estimates, power and sample size calculations for two-sample ordinal outcomes under before-after study designs." <u>Statistics in Medicine</u>, 22, 1807-1818, 2003.

6. Goydos, J.S., Patel, K. N., Shih, W. J., **Lu, S.-E.**, Yudd, A.P., Kempf, J.S., Bancila, E., Germino, F.J. "Patterns of recurrence in patients with melanoma and histologically negative but RT-PCR positive sentinel lymph nodes." Journal of the American College of Surgeons, 196:196-204, 2003.

7. Lehrer P., Vaschillo E., Vaschillo B., **Lu. S.-E.**, Edelberg R., Shih, W.J., Lin, Y., Kuusela, T.A., Tahvanainen, K., Robert, M.H. "Modification of baroreflex gain and pulmonary function among healthy people using resonant frequency biofeedback training to increase cardiac variability." Psychosomatic Medicine, 65, 796-805, 2003.

8. Moser, H.W., Raymond, G.V., Koehler, W., Sokolowski, P., Hanefeld, F., Korenke, G.C., Green, A., Loes, D.J., Hunneman, D.H., Jones, R.O., **Lu, S.-E.**, Uziel, G., Giros, M.L., Roels, F. "Evaluation of the preventive effect of glyceryl trioleate-trierucate ("Lorenzo's oil") therapy in X-linked adrenoleukodystrophy: results of two concurrent trials". Advances in Experimental Medicine and Biology, 544:369-87, 2003.

9. Huang S.J., **Lu, S.-E.**, Ananth, C.V. "The clustering of neonatal deaths in triplet pregnancies in the United States, an application of conditional response logistic regression models". Journal of Clinical Epidemiology, 56, 1202-1209, 2003.

10. Alsina, J., Gorski, D.H., Germino, J., Shih, W.J., **Lu, S.-E**., Zhang, Z.G., Yang, J.-M., Hait, W.N., and Goydos, J.S. **"**Detection of mutations in the mitogen-activated protein kinase (MAPK) pathway in human melanoma**".** Clinical Cancer Research, 9, 6419-6425, 2003.

11. Desir, B., Amre, D.K., **Lu, S.-E.**, Ohman-Strickland, P.A., Dubinsky, M., Fisher, R., Seidman, E.G. "Utility of serum antibodies in determining clinical course in pediatric Crohn's disease", Clinical Gastroenterology and Hepatology, **2**, 139-146, 2004.

12. **Lu, S.-E.**, Lin, Y. and Shih, W.J. "Analyzing excessive no changes in clinical trials with clustered data". Biometrics, 60, 257-267, 2004.

13. Yiin, L.-M., **Lu, S.-E.**, Sannoh, S., Lim, B.S., Rhoads, G.G. "Evaluation of cleaning methods applied in home environments after renovation and remodeling activities". Environmental Research, 96, 156-162, 2004.

14. Getahun, D., Demissie, K, **Lu, S.-E.**, Rhoads, G.G. "Sudden infant death syndrome (SIDS) in twin births: United States, 1995-1997. Journal of Perinatology, 24, 544-551, 2004.

15. Lehrer P., Vaschillo E., Vaschillo B., **Lu. S.-E.**, Scardella, A., Siddique M., Habib R.H., Hamer, R., Hochron, S., Edelberg R., Kuusela, T.A., Tahvanainen, K. "A nondrug (biofeedback) treatment for asthma". Chest, 126, 352-361, 2004.

16. **Lu, S.-E.** and Wang, M.-C. "Marginal analysis for clustered failure time data". Lifetime Data Analysis, vol. 11, 61-79**,** 2005.

17. Moser, H.W., Raymond, G.V., **Lu, S.-E**., Muenz, L.R., Moser, A.B., Xu, J, Jones, R.O., Loes, D., Melhem, E.R., Dubey, P., Bezman, L., Brereton, N.H., Odone, A. "Follow-up of 89 Lorenzo's oil treated asymptomatic adrenoleukodystrophy patients". Archives of Neurology, 62, 1073-1080, 2005.

18. Feldman J.M., Siddique M.I., Morales E., Kaminski B., **Lu S.-E.**, & Lehrer, P.M. "Psychiatric disorders and asthma outcomes among high-risk inner-city patients". <u>Psychosomatic Medicine</u>, 67, 989-996, 2005.

19. Lehrer, P., Vaschillo, E., **Lu, S.-E.**, Eckberg, D., Vaschillo, B, Scardella, A., Habib, R., "Heart Rate Variability Biofeedback: Effects of Age on Heart Rate Variability, Baroreflex Gain, and Asthma". <u>Chest</u>, 129(2), 278-84, 2006.

20. Amre, D.K., **Lu, S.-E.**, Costea, F, and Seidman, "Utility of serological of markers in predicting the early occurrence of complications and surgery in pediatric Crohn's disease patients". <u>American Journal of Gastroenterology</u> 101:1–8, 2006.

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139. Lehrer PM, Irvin CG, **Lu S-E**, Wamboldt FS. Relationships among pulmonary function, anxiety and depression in mild asthma: An exploratory study. <u>Biol Psychol</u>. 2022;168:108244

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C. Other Refereed Articles:

Zhang J, Zhu T, Kipen H, Wang G, Huang W, Rich D, Zhu P, Wang Y, **Lu S-E**, Ohman-Strickland P, Diehl S, Hu M, Tong J, Gong J, Thomas D; HEI Health Review Committee. Cardiorespiratory biomarker responses in healthy young adults to drastic air quality changes surrounding the 2008 Beijing Olympics. <u>Res Rep Health Eff Inst</u>. 2013; 174: 5-174.

D. Books, Monographs and Chapters

Tepper, BJ**,** Belzer LM, Smulian J, **Lu S-E**. Sweet taste preferences and cravings in gestational diabetes mellitus (GDM): Implications for diet and medical management. In: *Diet, Brain and Behavior: Practical Implications,* Lieberman H, Kanarek RB. (Ed), Boca Raton, FL; CRC Press LLC 2011, pp. 169-188.

PRESENTIONS:

Original Research

A. Podium Presentation at Scientific Meetings – Contributed and/or Invited Papers

*: Presenter †Biostatistics Doctoral student mentee ‡Biostatistics Doctoral committee Advisee

1. Chen YP†, **Lu S-E***, Lin Y, WJ Shih, Quan H. Two-stage enrichment clinical trial designs with survival outcomes and adjustment for misclassification in predictive biomarkers. ENAR 2022 Spring Meeting in March, 2022

2. **Lu S-E***, Kim S, Cheng JQ, Lin CF. Joint Effect Selection in Generalized Linear Mixed Model Analysis. JSM 2021 Virtual Conference in Aug, 2021

3. Chen YP†*****, Lin Y, **Lu S-E**, WJ Shih, Quan H. Two-stage enrichment clinical trial designs with survival outcomes and adjustment for misclassification in predictive biomarkers. JSM 2021 Virtual Conference in Aug, 2021

4. Chen YP†, Lin Y, **Lu S-E***, Shih WJ, H Quan. "A Two-Stage Clinical Trial Design with Survival Outcomes and Adjustment for Misclassification in Predictive Biomarkers." Invited talk. International Conference on Statistics for Twenty-First Century (ICSTC) Virtual Conferences, December 16, 2020, Trivandrum, India.

5. Chen YP†, **Lu SE***, Lin Y, Shih WJ, H Quan. "A two-stage clinical trial design with survival outcomes and adjustment for misclassification in predictive biomarkers." 2020 Joint Statistical Meetings Virtual Conference, Aug 2-6, 2020.

6. Wang W*†, **Lu SE**, JQ Cheng, "A Divide-and-Combine Approach of Multivariate Survival Analysis in Big Data", ENAR 2020 Spring Meeting, March 22-25, 2020.

7. Lin Y*, WJ Shih, **Lu SE**, "Two-Stage Enrichment Clinical Trial Design with Adjustment for Misclassification in Predictive Biomarkers", ENAR 2020 Spring Meeting, March 22-25, 2020.

8. Wang W*†, **Lu S-E**, Cheng JQ, "A Simple and Fast Divide-and-Conquer Approach in Multivariate Survival Analysis" Joint Statistical Meetings, July 27-August 1, 2019, Denver, Colorado.

9. **Lu S-E***, Cheng JQ, Xie M, "A Divide-And-Conquer Approach for Survival Analysis in Big Data" Joint Statistical Meetings, July 31-August 4, 2017, Baltimore, Maryland.

10. Shen J†, **Lu S-E***, Y Lin, WJ Shih, J Zhang, "Goodness-of-Fit Tests of Finite Mixture Regression Models Based on Cumulative Pseudo-Residuals" Invited talk. 2015 ICSA/Graybill Joint Conference at Fort Collins, CO

11. **Lu, S-E**, Lin Y, Marshall B, Gu H, Blando J* "Variability and trajectory of multiple blood lead measures among construction and manufacturing workers." The 2012 CSTE Annual Conference, June 3rd - 7th, Omaha, Nebraska.

12. Wu Y‡*, Lin Y, **Lu S-E**, Shih WJ. "Extension of Cure Rate Model When Cure Is Partially Known" Joint Statistical Meetings, July 28-August 2, 2012, San Diego, California.

13. Shen J*† and **Lu, S-E**, "Goodness-of-Fit Methods of Finite Mixture Models Based on Cumulative Pseudo-Residuals." Joint Statistical Meetings, July 30-August 4, 2011, Miami Beach, Florida.

14. **Lu, S-E***, Beckles GL, Crosson J, Bilik D, Karter AJ, Gerzoff RB, Lin Y, Ross S, McEwen LN, Waitzfelder BE, Marrero D, Lasser NL, Brown AF "Evaluation of U.K. Prospective Diabetes Study Risk Equations for Predicting Short-Term Acute Myocardial Infarction Occurrence in a Multi-Ethnic US Cohort with Type 2 Diabetes: The Translating Research Into Action for Diabetes (TRIAD) Study." Podium Presentation. The 69th Scientific Sessions of American Diabetes Association on June 7, 2009, in New Orleans, LA.

15. **Lu, S.-E*.**, Y. Lin and Shih, J.H.. "Data Analysis Under Case-Cohort Designs with Clustered Binary Outcome Data," American Statistical Association, Joint Statistical Meeting, Seattle, WA, August, 2006.

16. Shih, J.H*. and **Lu, S.-E.** "Analysis of Failure Time Data with Multi-Level Clustering, with Application to the Child Vitamin A Intervention Trial in Nepal". Invited paper at the 2006 ENAR Spring Meeting, Tampa, FL, March 2006.

17. **Lu, S.-E*.**, and Shih, J.H. "Case-cohort Design and Analysis for Clustered Failure Time Data". American Statistical Association, Joint Statistical Meeting, Minneapolis, MN, August, 2005.

18. **Lu, S.-E***, Lin, Y. and Shih, W.J. "Analyzing excessive no changes in clinical trials with clustered data". Invited talk at the 2005 Annual Meeting of the WNAR/IMS at the University of Alaska-Fairbanks on June 21-24, 2005.

19. **Lu, S.-E***, and Shih, J.H. "Case-cohort Design and Analysis for Clustered Failure Time Data". ENAR Sprint Meeting, Pittsburg, PA, March, 2004.

20. Ohman-Strickland, P.A.*, and **Lu, S.-E.** "Estimates, Power and Sample Size Calculations for Two-Sample Ordinal Outcomes under Before-After Study Designs ". American Statistical Association, Joint Statistical Meeting, San Francisco, CA, August, 2003.

21. **Lu, S.-E***, Lin, Y. and Shih, W.J. "Analyzing Excessive No Changes in Clinical Trials with Clustered Data". American Statistical Association, Joint Statistical Meeting, New York, NY, August, 2002.

22. **Lu, S.-E***, and Wang, M.-C "Marginal Analysis for Clustered Failure Time Data". International Biometrics Society ENAR meeting, Crystal City, VA, March, 2002.

23. **Lu, S.-E***, and Wang, M.-C. "Cohort Case-control Design and Analysis for Clustered Failure Time Data". 2001 ENAR Spring Meeting, Charlotte, North Carolina. March, 2001.

B. Selected Abstracts and Posters Selected from more than 100 abstracts:

1. LeCompte CG, McDougall J, Walters ST, Toppmeyer D, Boyce TW, **Lu S-E**, Stroup A, Paddock L, Grumet S, Lin Y, Ani J, Heidt E, Kinney AY. "Understanding Cancer Genetic Risk Assessment Intentions in a Tailored Risk Communication Intervention Randomized Controlled Trial". American Society of Preventive Oncology, March 13-15, 2022
This paper received the Electra Paskett Travel Award

2. Kinney, A, Ani J, Walters, S, Xu, B, **Lu S-E**, Lin, Y, Compte, C. "Population-based Randomized Trial of a Theory-Based Remote Decision Coaching Intervention on Genetic Testing Decision Making among Ethnically, Racially and Geographically Diverse Breast and Ovarian Cancer Survivors." Society of Behaviral Medicine, April 6–9, 2022

3. Fredericks-Younger, J, Greenberg, P, Andrews, T, Matheson, P, **Lu, S-E**, Feldman, C. "Using REDCap to Enhance Data Quality in Clinical Trials". American Association for Dental Research March 2022

4. Awopegba, A, Frederics-Younger, J, Matheson, P, Greenberg, P, Andrews, T, **Lu, S-E**, Feldman-Zohn, C, "Recording Analgesic Usage in Pain Studies: Electronic Bottle Versus eDiary." American Association for Dental Research, March 2022

5. Vacca, J, Frederics-Younger, J, Andrews, T, Matheson, P, Greenberg, P, **Lu S-E**, Feldman-Zohn, C, "Assessing Patient Driven Outcomes in Pain Studies via Activity Monitor", American Association for Dental Research, March 2022

6. Fredericks-Younger, J, Feldman, C, **Lu S-E**, Greenberg, P, Andrews, T, He, B, "Effectiveness of Electronic Medication Adherence Systems on Medication Use Reporting". American/International Association for Dental Research, July 22, 2021

7. J. Sunderram, **H. Wang***, **S.-E. Lu**, A. Twumasi, A. Perez, K. Black, C. Nicholas, H. Sanders, J.A. Carson, I. Udasin, D.J. Harrison, N. Chitkara, D.M. Rapoport, I.A. Ayappa. "Adherence to Continuous Positive Airway Pressure in World Trade Center Responders with Obstructive Sleep Apnea. Role of Nasal Pathology". American Thoracic Society Annual Conference 2018 at San Diego, CA.
*Biostatistics MS student mentee

8. B. Wu, J. Wang, I. Sulaiman, N. Shen, J. Clemente, Y. Li, R. J. Laumbach, **S.-E. Lu**, I. Udasin, O. Le-Hoang, A. Perez, A. Horowitz, S. Alimokhtari, K. Black, M. Plietz, A. Twumasi, P. Melacha, B. Kapoor, B. D. Scaglione, C. M. Blazoski, A. Wang, J. Gilani, E. A. Vicente, J. M. Marin, M. Weiden, D. M. Rapoport, J. Sunderram, I. A. Ayappa, L. N. Segal; "Severe Obstructive Sleep Apnea Is Associated with Changes in Nasal Microbiota." American Thoracic Society Annual Conference 2018 at San Diego, CA.

9. **Wang W***, Kwon YS, Su L, Kim IY, **Lu S-E**. "Longitudinal Pain Scores as a Prognostic Factor of Overall Survival in Men with Castration-Resistant Prostate Cancer." Moderated poster session at the American Urological Association, May 12-May 16, 2017, Boston, MA.
*: Biostatistics MS student mentee; this paper uses the method of latent class joint survival and longitudinal data analysis

10. **Shen J*, Luo X*, Lu S-E**, Wamboldt F, Irvin C, Lehrer P. "Meditational Analysis for the Effect of HRV biofeedback on Controlling Asthma. The 47th Association for Applied Psychophysiology and Biofeedback (AAPB) Scientific Meeting in Seattle, WA, March 2016*;*
*Biostatistics MS student mentees; both students received AAPB Student Travel Scholarship Award