

CURRICULUM VITAE

YU-LUN LIU

ND3.101A
T.Boone Pickens Biomedical Building
University of Texas Southwestern Medical Center
6001 Forest Park Rd
Dallas, Texas, 75235

Email: Yulun.Liu@UTSouthwestern.edu
Office Phone: 214-648-4017

CURRENT POSITION

2018 - Present	Assistant Professor Peter O'Donnell Jr. School of Public Health UT Southwestern Medical Center, Dallas
2018 - Present	Key member resource faculty of the Biostatistics Shared Resource Simmons Comprehensive Cancer Center UT Southwestern Medical Center, Dallas

EDUCATION

2018	Postdoctoral Research Fellow Department of Biostatistics, Epidemiology and Informatics University of Pennsylvania, Philadelphia, Pennsylvania
2016	PhD, Department of Biostatistics The University of Texas School of Public Health (UTSPH), Houston, Texas Thesis Title: <i>Meta-analysis and its application in biomedical studies</i> Advisors: Professors Yong Chen and Paul Scheet
2010	MS, Statistics and Probability Michigan State University, East Lansing, Michigan

PROFESSIONAL EXPERIENCE

2013 - 2016	Graduate Research Assistant Department of Epidemiology The University of Texas MD Anderson Cancer Center <i>Exome sequencing analyses and statistical method development</i> with Professor Paul Scheet
2013 - 2014	Graduate Research Assistant Joined with Department of Gastrointestinal Medical Oncology, Division of Cancer Medicine, and Department of Epidemiology The University of Texas MD Anderson Cancer Center <i>Exome sequencing analysis on Small Bowel and Ampulla of Vater</i> with Professors Michael J. Overman and Paul Scheet
2012 - 2013	Graduate Research Assistant Department of Biostatistics The University of Texas School of Public Health

RESEARCH INTEREST

Statistical methods	Integrative analysis of heterogeneous and massive datasets, Development of quantitative methods for high-dimensional data analysis, Robust inference, Dynamic risk prediction, Bayesian hierarchical modeling for complex network.
Collaborations	Distributed methods in large research consortia, Comparative effectiveness research, Patient centered outcomes research, Genetic epidemiology, Systematic reviews.
Collaborative medical areas	Pediatric inflammatory bowel disease, Cardiovascular disease and patient centered outcomes, Early detection of melanoma, Retinopathy of prematurity, Bladder cancer, Ovarian and Breast cancer, Kidney disease, Alzheimer's disease.

AWARDS/HONORS

2016	Outstanding Trainee Award for Cancer Prevention Research at the University of Texas MD Anderson Cancer Center
2014	Southern Regional Council On Statistics Boyd Harshbarger Travel Award
2013	Dean's Student Travel Awards at UTSPH
2013	Travel Award at UTSPH to Joint Statistical Meetings Conference

RESEARCH SUPPORT

03/01/2019 – 12/31/2023	Biostatistician , R01AG059314-01A1 (MPI: Fu/Romero) <i>Chronic Lower Leg Heating for the Treatment of Hypertension in Older Women</i> Major goal: To compare heating interventions in women with hypertension
08/31/2020 – 08/30/2023	Biostatistician , RP200327 (PI: O'Donnell-Mendell) <i>Immune Checkpoint Regulation by the Integrated Stress Response Pathway in Lung Cancer</i> Major goal: (1) To elucidate the mechanisms through which ISR activation promotes translation of immune checkpoint protein. (2) To determine the extent to which modulation the ISR impacts immune cell responses. (3) To examine the therapeutic efficacy of ISR inhibition in combination with PD-1
10/01/2021 – 05/31/2023	Subcontract PI , R56AG074604 (MPI: Chen/Tao) <i>CICADA: clinical informatics and computational approaches for drug-repositioning of AD/ADRD</i> Major goal: To systematically and comprehensively utilize these datasets, we propose to develop a framework of using both genetic data and electronic health records (EHR) data in regression analyses, guided by a comprehensive knowledge graph (KG) that we plan to construct from both established (databases) and scattered (literature) knowledge
02/01/2021 – 06/30/2024	Biostatistician , W81XWH2110112 (PI: Alluri) <i>Targeting treatment resistance in metastatic, ER positive breast cancer</i> Major Goals: The proposed research will address the following overarching challenges:

(1) Identify what drives breast cancer growth; determine how to stop it, and (2) Revolutionize treatment regimens by replacing them with ones that are more effective, less toxic, and impact survival

- 09/05/2019 – 06/30/2024 **Biostatistician**, R01DK081423 (PI: Sakhaee)
Pathogenesis of Uric Acid Nephrolithiasis
 Major goal: To understand the pathophysiology of renal lipids in uric acid stone formation
- 07/01/2021 – 06/30/2025 **Biostatistician**, R01AG070262-01A1 (PI: Babb)
Effects of Obesity in the Aged
 Major goal: The overall objective of this application is to investigate the effects of obesity on lung function, exercise tolerance, and DOE in older obese adults as compared with older adults without obesity, using a novel probe for mechanically unloading the thorax at rest and during exercise
- 04/01/2021 - 04/30/2026 **Biostatistician**, R01DK128208-01 (PI: Moe)
he Relation of Soluble Klotho with Chronic Kidney Disease, Cardiovascular Disease, and Blood Pressure in the Systolic Blood Pressure Intervention Trial
 Major goal: We propose to use an alternative assay, which we have shown to be superior in pilot data, to measure soluble klotho within the CKD sub-cohort of the Systolic Blood Pressure Intervention Trial
- 03/01/2022 – 12/31/2026 **PI**, R01DK128237-01A1 (PI: Liu)
Novel evidence-accumulation-driven methods for characterizing kidney stone progression
 Major goal: We propose novel methods and algorithms to develop personalized dynamic risk prediction and to identify modifiable risk factors for kidney stone progression
- 06/01/2022 – 05/31/2027 **Biostatistician**, R01CA266146-01 (PI: Sumer)
A pH Responsive Transistor-like Nanoprobe for Sensitive Detection of Unknown Primary Cancers of the Head and Neck
 Major goal: This application uses activatable fluorescence nanoprobe ONM-100 to evaluate the sensitivity and specificity of detecting unknown primary cancer in head and neck cancer patients after intravenous injection and imaging during surgery.

PUBLICATIONS

IN PEER-REVIEWED JOURNALS

1. Ferre, S[†], **Liu, YL[†]**, Lambert, JW, Katz, R, Gianella, FG, Drew, DA, Shlipak, MG, Moe, OW, Ix, JH, Toto, RD, and Neyra, JA (2023) Serum magnesium and cardiovascular outcomes in systolic blood pressure intervention trial (SPRINT) participants, *Kidney Medicine* (accepted).
[†]: equal contribution
2. Johns, C, Yen, A, Rahimi, A, **Liu, YL**, Leitch, AM, Spangler, A, Alluri, P, Nwachukwu, C, Wooldridge, R, Farr, D and Kim, ND (2023) Aspirin use is associated with improved outcomes in inflammatory breast cancer patients, *Journal of Breast Cancer*, 26(1):14-24.
3. Udden, SMN, Baek, G, Pandey, K, Vidal, C, **Liu, YL**, Rahimi, AS, Kim, N, Nwachukwu, C, Mani, RS, and Alluri, PG (2023) Towards precision radiation oncology: endocrine therapy response as a biomarker for

personaization of breast radiotherapy, *NPJ Precision Oncology*, 7(1):11.

4. Teotia, SS, Halani, SH, Jones, K, **Liu, YL**, and Haddock, NT. (2023) Reconstructive burnout after mastectomy: implications for patient selection, *Plastic and Reconstructive Surgery*, 151(1):13e-19e.
5. Udden SMN, Wang, Q, Kumar, Malladi, VS S, Wu, SY, Wei, S, Posner, B, Geboers, S, Williams, NS, **Liu, YL**, Sharma, JK, Mani, RS, Malladi, S, Parra, K, Hofstad, M, Raj, GV, Larios, JM, Jagsi, R, Wicha, M, Park, B, Gupta, GP, Chinnaiyan, A, Chiang, CM, and Alluri, PG (2022) Targeting ESR1 mutation-Induced transcriptional addiction in breast cancer with BET Inhibition, *Journal of Clinical Investigation Insight*, 7(17): e151851.
6. Vu, MH, Sande-Docor, GM, **Liu, YL**, Tasi, S, Patel, M, Metzger, C, Shishehbor, MH, Brilakis, ES, Shamm, N, Monteleone, P and Banerjee, S. (2022) Endovascular treatment and outcomes for femoropopliteal in-stent restenosis: insights from the XLPAD registry, *Journal of Interventional Cardiology*, 5935039.
7. Ramos-Roman, M, Syed-Abdul, MM, Casey, BM, Alger, JR, **Liu, YL**, and Parks, EJ (2022) Lactation alters the relationship between liver lipid synthesis and hepatic fat stores in the postpartum period, *Journal of Lipid Research*, 63 (11):100288.
8. Wang, X, Liu, H, Ortigoza, EB, Kota, S, **Liu, YL**, Zhang, R, Chalak, LC. (2022) Feasibility of EEG phase-amplitude coupling to stratify encephalopathy severity in neonatal HIE using short time window, *Brain Sciences*, 12(7): 854.
9. Haddock, NT, Hembd, A, **Liu, YL**, and Teotia, SS. (2022) Abandoning the SIEA flap for the dual-plane DIEP reduces fat necrosis and flap failure, *Plastic and Reconstructive Surgery* (accepted).
10. **Liu, YL**, Ying, GS, Quinn, GE and Chen, Y. (2022) Extending Hui-Walter framework to correlated outcomes with application to diagnosis tests of an eye disease among premature infants, *Statistics in Medicine*, 41(3), 433-448.
11. Kadakia, Y, **Liu, YL**, Farr, D, Teotia, S, and Haddock, NT. (2022) Translating Access to Outcomes: The Impact of Socioeconomic Status on Completion of Breast Reconstruction at a National Cancer Institute (NCI)-Designated Cancer Center, *Journal of Plastic, Reconstructive and Aesthetic Surgery*, 75(2): 550-561.
12. Wang, X, Liu, H, Kota, S, Das, Y, **Liu, YL**, Zhang, R, and Chalak, L. (2022) EEG phase-amplitude coupling to stratify encephalopathy severity in the developing brain, *Computer Methods and Programs in Biomedicine*, 214: 106593.
13. Tsai, S, **Liu, YL**, Alaiti, M, Gutierrez, J, Brilakis, E, and Banerjee, S. (2022) No benefit of vorapaxar on walking performance in patients with intermittent claudication, *Vascular Medicine*, 27(1): 33-38.
14. Pernik, MN, Montgomery, EY, Isa, S, Sundarajan, C, Caruso, JP, Traylor, J, **Liu, YL**, and Garzon-Muvdi, T. (2022) The natural history of non-functioning pituitary adenomas: a meta-analysis of conservatively managed tumors, *Journal of Clinical Neuroscience*, 95:134-141.
15. Hwang, CL, Okazaki, K, Shibata, S, **Liu, YL** and Fu, Q. (2021) Menstrual cycle effects on sympathetic neural burst amplitude distribution during orthostasis in young women, *Clinical Autonomic Research*, 31(6): 767-773.
16. Das, Y, Leon, R, Liu, H, Kota, S, **Liu, YL**, Wanag, X, Zhang, R, and Chalak, L. (2021) Wavelet-based neurovascular coupling to predict brain abnormalities resulting from neonatal encephalopathy, *NeuroImage: Clinical*, 32: 102856.
17. Ly, H, Ortiz-Soriano, V, Liu, LJ, **Liu, YL**, Chen, J, Chang, AR, Gutierrez, OM, Siew, ED, Wald, R, Silver, SA, and Neyra, JA (2021) Characteristics and outcomes of survivors of critical illness and AKI followed in a pilot AKI clinic, *Kidney International Reports*, 6(12): 3070-3073.
18. Adomako, E, Bilal, S, **Liu, YL**, Malik, A, Buren, PV, Shastri, S, and Sambandam, L. (2021) Idiopathic hypokalemia in lupus nephritis – A newly recognized entity, *Kidney360*, 2(10):1553-1559.
19. Patel, K, **Liu, YL**, Etaee, F, Patel, M, Alaiti, MA, Metzger, C, Banerjee, A, Minniefield, N, Tejani, I, Brilakis, E, Shishehbor, M and Banerjee, S. (2021) Differences Between Patients with Intermittent Claudication and Critical Limb Ischemia Undergoing Endovascular Intervention: Insights From the Excellence in Peripheral

Artery Disease Registry, *Circulation: Cardiovascular Interventions*, 14 (11): e010635.

20. Takeda, R, Stickford, A, Best, S, Yoo, JK, Hissen, SL, **Liu, YL** and Fu, Q. (2021) Impact of high-salt versus low-salt intake on the response of sympathetic baroreflex sensitivity to orthostasis in women with a history of normal pregnancy, *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, 321(2): R260-R270.
21. Haddock, NT, Garza, R, Boyle, CE, **Liu, YL** and Teotia, SS. (2021) Defining enhanced recovery pathway with or without liposomal bupivacaine in DIEP flap breast reconstruction, *Plastic and Reconstructive Surgery*, 148(5): 948-957.
22. Balachandra, S, Eary, R, Lee, R, Wynings, E, Sher, DJ, Sura, T, **Liu, YL**, Tillman, B, Sumer, BD, Arnold, EM, Tiro, JA, Lee, SC, and Day, AT. (2022) Substance use and mental health burden in head and neck and other cancer survivors: a national health interview survey analysis, *Cancer*, 128(1): 112-121.
23. Kota, S, Jasti, K, **Liu, YL**, Liu, H, Zhang, R, and Chalak, L. (2021) EEG spectral power-a proposed physiological biomarker to classify the hypoxic encephalopathy severity in real time, *Pediatric Neurology*, 122: 7-14.
24. Haddock, NT, Kadakia, Y, **Liu, YL**, and Teotia, S. (2021) Prepectoral versus subpectoral tissue expander breast reconstruction: a historically controlled, propensity score-matched comparison of perioperative outcomes, *Plastic and Reconstructive Surgery*, 148(1): 1-9.
25. Kabir, R, Vuppala, S, **Liu, YL**, Tejani, I, Weideman, R, Banerjee, A, Tsai, S, Huffman, L, Niazi, Khusrow, Brilakis, E, Shishehbor, M, and Banerjee, S. (2021) Clinical outcomes of patients with and without chronic kidney disease undergoing endovascular revascularization of infrainguinal peripheral artery disease: insights from the XLPAD registry, *Catheterization & Cardiovascular Interventions*, 98(2): 310-316.
26. Teotia, SS, Kadakia, Y, Amaya, J, **Liu, YL**, and Haddock, NT. (2021) Evaluating the efficacy of povidone-Iodine solution infection prophylaxis in immediate tissue expander-based breast reconstruction: a controlled retrospective analysis, *Plastic Surgery* (in press).
27. Takeda, R, Stickford, A, Best, S, Yoo, JK, **Liu, YL** and Fu, Q. (2021) Effects of salt Intake on sympathetic neural and pressor responses to cold pressor test in premenopausal women with a history of normal pregnancy, *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, 320(3), R307-R316.
28. Farhat, A, Ling, RR, Jenks, CL, Poon, WH, Yang, IX, **Liu, YL**, Li, X, Bowens, C, Ramanathan, K, Thiagarajan, R, and Raman, L. (2021) Outcomes of pediatric extracorporeal cardiopulmonary resuscitation: a systematic review and meta-analysis, *Critical Care Medicine*, 49(4), 682-692.
29. Teotia, S, Dickey, RM, **Liu, YL**, Jayaraman, AP, and Haddock, NT. (2021) Intraoperative microvascular complications in autologous breast reconstruction: the effects of resident training on microsurgical outcomes, *Journal of Reconstructive Microsurgery*, 37(4), 309-314.
30. Tian, F, Sepulveda, P, Kota, S, **Liu, YL**, Das, Y, Liu, H, Zhang, R, and Chalak, L. (2021) Regional heterogeneity of cerebral hemodynamics in mild neonatal encephalopathy measured with multichannel near-infrared spectroscopy, *Pediatric Research*, 89(4), 882-888.
31. **Liu, YL**, Huang, J, Urbanowicz, R, Chen, K, Manduchi, E, Greene, C, Scheet, P, Moore, JH., and Chen, Y. (2020) Embracing study heterogeneity for finding genetic interactions in large-scale research consortia, *Genetic Epidemiology*, 44(1) 52-66. (Featured at the 1st issue of Genetic Epidemiology in 2020 at the Back-Cover Page).
32. Fox, J, Jenks, C, Farhat, A, Li, X, **Liu, YL**, James, E, Karasick, S, Morriss, M, Sirsi, D, and Raman, L. (2020) EEG is a predictor of neuroimaging abnormalities in pediatric Extracorporeal Membrane Oxygenation, *Journal of Intensive Care Medicine*, 9(8), 2512.
33. Adam, L, San Lucas, FA, Fowler, J, Yu, Y, Wu, W, **Liu, YL**, Wang, H, Menter, D, Tetzlaff, M, Ensor, J, Manyam, G, Arold, S, Huff, C, Kopetz, S, Scheet, P, and Overman, M. (2019) DNA sequencing of small bowel adenocarcinomas identifies targetable recurrent mutations in the ERBB2 signaling pathway. *Clinical*

Cancer Research, 25(2), 641-651.

34. Craig, U, Jonathan, W, Matthe, G, Jenna, G, **Liu, YL**, and Chen, Y. (2019) National survey of hospitalists' experiences with incidental pulmonary nodules. *Journal of Hospital Medicine*, 14(6), 353-356.
35. Piao, J, **Liu, YL**, Chen, Y and Ning, J. (2019) Maximum likelihood estimation and EM algorithm of copas selection model for publication bias correction of diagnostic tests, *Statistical Methods in Medical Research*, 28(10-11), 2912-2923.
36. **Liu, YL**, DeSantis, SM, Chen, Y. (2018) Bayesian network meta-analysis with correlated outcomes subject to publication bias: application to a systematic reviews of alcohol dependence, *Journal of the Royal Statistical Society: Series C*, 67(1), 127-144.
37. Agarwal, R, Bartsch, SM, Kelly, BJ, Prewitt, M, **Liu, YL**, Chen, Y, and Umscheid, CA. (2018) Newer glycopeptide antibiotics for treatment of complicated skin and soft tissue infections: systematic review, network meta-analysis and cost analysis, *Clinical Microbiology and Infection*, 24(4), 361-368.
38. Jiang, Y, Weng, R, Zhang, Y, Fan, R, **Liu, YL**, Chen, Z, Peng, F, Chen, Y, and Chen, X. (2018) The performance of rapid plasma reagin (RPR) titer in HIV-negative general paresis after neurosyphilis therapy, *BMC Infectious Diseases*, 18(1), 144.
39. Huang, J, **Liu, YL**, Vitale, S, Penning, T, Whitehead, AS, Blair, IA, Vachani, A, Clapper, M, Muscat, JE, Lazarus, P, Scheet, P, Moore, J and Chen, Y (2017) On meta- and mega-analyses for gene-environment interactions, *Genetic Epidemiology*, 41(8), 876-886.
40. Chen, Y, **Liu, YL**, Chu, HT, Lee, ML, and Schmid, C. (2017) A simple and robust method for multivariate meta-analysis of diagnostic test accuracy, *Statistics in Medicine*, 36(1), 105-121.
41. Chen, Y, **Liu, YL**, Ning, J, Nie, L, Zhu, H, and Chu, HT. (2017) A composite likelihood method for bivariate analysis of sensitivity and specificity in diagnostic reviews, *Statistical Methods in Medical Research*, 26(2), 914-930.
42. **Liu, YL**, Chen, Y, and Scheet, P. (2016) A meta-analytic framework for detection of genetic interactions, *Genetic Epidemiology*, 40(7), 534-543.
43. **Liu, YL**, Chen, Y, and Chu, HT. (2015) A unification of models for meta-analysis of diagnostic accuracy studies without a gold standard, *Biometrics*, 71(2), 538-547.
44. Chen, Y, **Liu, YL**, Ning, J, Cormier, J, and Chu, HT. (2015) A hybrid model for combining case-control and cohort studies in systematic reviews of diagnostic tests, *Journal of the Royal Statistical Society: Series C*, 64(3), 469-489.
45. Lin, Y, Chen, Y, Wang, Y, Yang, J, Zhu, V, **Liu, YL**, Cui, X, Yan, W, Jiang, T, Hergenroeder, G, Fletcher, S, Levine, J, Kim, D, Tandon, N, Zhu, J, and Li, M. (2013) ZIP4 is a novel molecular marker for glioma, *Neuro-Oncology*, 15 (8), 1008-1016. PMID: 21191590.

BOOK CHAPTERS

Liu, YL, Ma, X, Chen, Y, Stijnen, T, and Chu, HT. (2020) Meta-analysis of diagnostic tests in handbook of meta-analysis. Editors: Schmid, C, Stijnen, T and White, I. *Handbooks of Modern Statistical Methods series, Chapman and Hall*.

Liu, YL, and Chen, Y. (2018) Diagnostic Meta-Analysis: A Useful Tool for Clinical Decision-making. Editor: Biondi-Zoccai, G. *Springer*.

STATISTICAL SOFTWARE

R codes for YETI in "A meta-analytic framework for detection of genetic interactions" *Genetic Epidemiology*
<https://github.com/Penncil/YETI-YETI2>

Role: **author**

R package **xmeta**: a comprehensive collection of functions for multivariate meta-analyses of continuous or binary outcomes. This package also includes functions and visualization tools for detection and correction of publication bias in multivariate meta-analysis

<https://cran.rstudio.com/web/packages/xmeta/index.html>

xmeta website: <https://www.xmeta.org>

Role: **one of the main contributors**

COMPUTING SKILLS

R, STATA, SAS, WinBUGS, LaTeX, Unix/Linux, Computing on a high performance cluster

PROFESSIONAL ACTIVITY

Ad Hoc Journal Reviewer	<i>Biometrics, Statistics in Medicine, Journal of Biopharmaceutical Statistics BMJ Open, Research Synthesis Methods, Circulation Cardiovascular Interventions Statistics and Its Interface, American Journal of Epidemiology The Journal of Evidence-Based Dental Practice, BMC Cancer Computational Statistics and Data Analysis, PLOS ONE Biometrical Journal</i>
Scientific Merit Reviewer	NIH: G47 Review-clinical trials and comparative effectiveness studies in neurology (Special emphasis panel grant review committees)
Member	American Statistical Association (ASA) International Chinese Statistical Association (ICSA) International Biometric Society (ENAR)
Committee	Population Science Protocol Review and Monitoring Committee (PRMC) Protocol Review and Monitoring Committee (PRMC#2) SMU PhD student qualifying examination committee SMU PhD student dissertation committee UTSW Medical student dissertation committee

TEACHING EXPERIENCE

Fall 2022	Multiple Lectures Topics: <i>Univariate/multiple linear regression, logistic regression analysis and survival analysis</i> Peter O'Donnell Jr. School of Public Health UT Southwestern Medical Center <i>Conceptual biostatistics for the clinical investigator (CTM 5309)</i>
Spring 2020	Lecture Topic: <i>Introduction to Meta-analysis</i> The 4th year medical students UT Southwestern Medical Center
Fall 2019	Lecture Topic: <i>Missing values in longitudinal data</i> Department of Statistical Science

	Southern Methodist University <i>Modeling longitudinal and incomplete data (STAT 7331)</i>
Fall 2017	Teaching Assistant Department of Biostatistics, Epidemiology and Informatics University of Pennsylvania <i>Systematic reviews and meta-analyses (EPID 582)</i>
Fall 2016	Teaching Assistant Department of Biostatistics, Epidemiology and Informatics University of Pennsylvania <i>Advanced statistical Inference II (BSTA 622)</i>
Spring 2012	Teaching Assistant Department of Biostatistics The University of Texas School of Public Health <i>Survival Analysis (PH1831)</i>

MENTORING EXPERIENCE

PhD STUDENT MENTORING

2023 - Present	Yifei Wang, PhD student, Southern Methodist University
2022 - Present	Zifang Kong, PhD student, Southern Methodist University

PhD THESIS COMMITTEE SERVED

2022	Jaehyeon Yun, Southern Methodist University
2022	Christopher Johns, UT Southwestern Medical Center

PRESENTATION

INVITED TALK

2022	<i>Embracing heterogeneity for detection of genetic interactions: application to genome-wide association studies in bladder cancer</i> UT Southwestern Medical Center, TX
2022	<i>Network meta-analysis: methodology and applications</i> University of Texas at Dallas, TX
2019	<i>Data integration: Embracing heterogeneity in detecting genetic interactions</i> Southern Methodist University, TX
2018	<i>Data integration in biomedical studies: a personal perspective</i> University of Florida, FL
2018	<i>Data integration in biomedical studies: a personal perspective</i> UT Southwestern Medical Center, TX
2017	<i>Embracing heterogeneity: beware of YEIT</i> University of Nevada Las Vegas, NV
2017	<i>Embracing heterogeneity</i> University of California Merced, CA

ORAL: CONTRIBUTED TALK

- 2022 *Robust univariate network meta-analysis without knowledge of within-study correlations: Application to primary open-angle glaucoma.*
The Western North American Region of The International Biometric Society.
- 2017 *A distributed analysis method for detecting genetic interactions for complex disease in large research consortia.*
Joint Statistical Meetings. Baltimore, MD.
- 2015 *A meta-analytic framework for detection of genetic interactions.*
Joint Statistical Meetings. Seattle, WA.
- 2014 *Bayesian network meta-analysis with correlated outcomes subject to publication bias: application to systematic reviews of alcohol dependence.*
Joint Statistical Meetings. Boston, MA.
- 2014 *A unification of models for meta-analysis of diagnostic accuracy studies without a gold standard.*
Eastern North American Regional meeting of the International Biometric Society.
Baltimore, MD.
- 2013 *A hybrid model for combining case-control and cohort studies in systematic reviews of diagnostic tests.*
Joint Statistical Meetings. Montreal, QC, Canada.

POSTER

- 2017 *A distributed analysis method for detecting genetic interactions for complex disease in large research consortia.*
Eastern North American Regional meeting of the International Biometric Society.
Washington, DC.
- 2015 *A meta-analytic framework for detection of genetic interactions.*
Advances in Molecular Diagnostics. Houston, TX.
- 2015 *A new approach for detecting gene-by-gene interactions through meta-analyses.*
Eastern North American Regional meeting of the International Biometric Society.
Miami, FL.
- 2014 *Bayesian network meta-analysis with correlated outcomes subject to publication bias: application to systematic reviews of alcohol dependence.*
Southern Regional Council On Statistics. Galveston, TX.