YANGXIN HUANG, PhD in Biostatistics

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CURRICULUM VITAE

EDUCATION

- **2000: PhD** in Biostatistics
  Liverpool John Moores University, Liverpool, UK
- **1987: MSc** in Statistics
  Huazhong University of Science and Technology, Wuhan, P.R. China
- **1982: BSc** in Mathematics
  Wuhan University of Technology, Wuhan, P.R. China

EMPLOYMENT

- 08/2015-present: **Professor (Tenured) in Biostatistics**, Department of Biostatistics and Data Science, College of Public Health, University of South Florida, Tampa, FL
- 05/2017-05/2018: **Professor in Biostatistics**, Health Informatics Institute, Morsani College of Medicine, University of South Florida, Tampa, FL
- 08/2010-07/2015: **Associate Professor (Tenured) in Biostatistics**, Department of Epidemiology and Biostatistics, College of Public Health, University of South Florida, Tampa, FL
- 05/2005-07/2010: **Assistant Professor (Tenure-track) in Biostatistics**, Department of Epidemiology and Biostatistics, College of Public Health, University of South Florida, Tampa, FL
- 08/2003-08/2005: **Assistant Professor in Biostatistics**, Department of Biostatistics and Computational Biology, University of Rochester School of Medicine and Dentistry, Rochester, NY
- 07/2001-08/2003: **Biostatistician**, AIDS Clinical Trial Groups and Center for Biostatistics in AIDS Research at Harvard School of Public Health, Boston, MA
- 01/2000-07/2001: **Research Associate**, Department of Mathematical and Computing Sciences, Liverpool John Moores University, Liverpool, UK
- 09/1997-01/2000: **Teaching Assistant**, Department of Mathematical and Computing Sciences, Liverpool John Moores University, Liverpool, UK
- 09/1993-09/1996: **Associate Professor in Statistics**, Department of Mathematics, Wuhan University of Technology, Wuhan, P. R. China
- 08/1985-09/1993: **Lecturer in Mathematics**, Wuhan University of Technology, Wuhan, P. R. China

RESEARCH INTERESTS

Methodology Research

- Bayesian statistics and methodology as well as MCMC-based algorithms
- Joint models for event time and longitudinal data with missing, skewed and mis-measured features
- Mixture of nonlinear mixed-effects models for skewed-longitudinal data
- Quantile regression-based joint models for longitudinal and survival data
- Nonparametric mixed effects models for asymmetric longitudinal data
- Biomedical big data analytics for complex high-dimensional data
- Statistical methods and theories for dynamic ODE systems

Application Research

- Clinical trial design and studies, in particular, AIDS, cancer, PD and diabetes studies
- Missing, measurement error and zero-inflated data analysis
- Biostatistical applications in HIV/AIDS, cancer and diabetes etc.
- Infectious disease modelling and prediction

CONSULTING EXPERIENCE

I have extensive experience of statistical consulting and collaboration in biomedical and public health environment

- To conduct study design and protocol development
- To help statistical data analysis and interpretation/presentation of analysis results
- To provide general critique to grant proposal evaluation and preparation
- To provide critical review of manuscript critique and help revise statistical section
- To provide hands-on experience to train graduate students in biostatistical consulting-based statistical technique, data analysis and results interpretation
- To lead administrative role of consulting and collaboration for routine consulting services to medical, public health and other scientific researchers

RESEARCH PROJECTS

- ***Pending grant applications***
  1. NIH R21 (PI: Hana Kim). Determining Cognitive-Linguistic Mechanisms of Spoken and Written Discourse in Aphasia. 07/2026-06/2029. **Role:** Co-I with 5% efforts
  2. NIH R34 (PI: Jennifer Bugos). Feasibility and Acceptability of Group Piano Training on Executive Functions and Psychosocial Outcomes in Parkinson's Disease. 07/2026-06/2029. **Role:** Co-I with 10% efforts
  3. NIH U24 (PI: Jennifer Bugos). Sensorimotor and Stress-Buffering Mechanisms in Group Piano Improvisation for Chronic Pain Management in Aging. 06/2026-05/2027. **Role:** Co-I with 5% efforts
- ***On-going grants***
  1. NIH UG3 Grant (PI: Y. Sun). Developing AI-Driven Pain Intensity and Pain Sensitization Biomarker Signatures to Optimize Neonatal Pain Management. **Role:** Co-I with 10% efforts
  2. Friedreich's Ataxia Research Alliance (FARA) (PI: Theresa Zesiewicz, USF), Natural History Biomarkers in Friedreich's Ataxia. **Role:** Co-I with 7% efforts.
  3. FL Health Department (PI: Theresa Zesiewicz, USF), Use of AI for fall risk predication in patients with Parkinsons's Disease **Role:** Co-I with 3% efforts
- ***Completed research grants as PI or Co-I (2015-2025)***

  I have been completed more than 40 statistical methodological and collaborative research grants from NSF, NIH, VA and other funding agents as PI, co-investigator or biostatistician

PEER-REVIEWED PUBLICATIONS

- **Peer-reviewed publications (2015-2026)**
  1. Wang, J., Chen, J., Gu, F., Long, Y., Wang, X. and Huang, Y. (2026). Bayesian weighted composite quantile regression for multivariate semi-continuous longitudinal data. *Communications in Statistics-Theory and Methods*. 55(4), 1189-1215. https://doi.org/10.1080/03610926.2025.2517285
  2. Wang, Y., Chen, J., Xie, J. and Huang, Y. (2026). Bayesian weighted quantile joint model for longitudinal and semi-competing risks data. *Journal of Statistical Computation and Simulation*. 96(6), 1390-1416. https://doi.org/10.1080/00949655.2025.2591479
  3. Kingsbur, C., Ghanekar S, Hancock, J.U., White, C., Zhao, Y., Huang Y, Flouty, O. and Zesiewicz T.A. (2026). Impact of COVID-19 on Movement Disorders Patients in the Outpatient Setting. *Cureus* 18(4): e107110. https://doi.org/10.7759/cureus.107110
  4. Yuan, Z., Chen, J., Qiu, H., Wang, H., Huang, Y., and Lin, F. (2026). Co-Activation Pattern Analysis based on Hidden Semi-Markov Model for Brain Spatiotemporal Dynamics. *IEEE Transactions on Medical Imaging*. 45(2), 843-852). https://doi.org/10.1109/TMI.2025.3607113.
  5. Long, Y., Chen, J., Ye, X. and Huang, Y. (2026). Two-part hidden semi-Markov mixed effects models for semi-continuous longitudinal data. *Statistics in Medicine*. https://doi.org/10.1002/sim.70476

6. Chen, J., Huang, Y. and Tang, N. (2026). Generalized linear mixed-effects joint model for longitudinal and bivariate survival data. Computational Statistics and Data Analysis. https://doi.org/10.1016/j.csda.2026.108382
7. Lu, Y., Chen, H., Wang, W., **Huang, Y**., Valente, MJ (2025). How to Measure the Generalizability of Clinical Trials. *Medical Research Archives*, 13(9). https://doi.org/10.18103/mra.v13i9.6896
8. Pai, C. Y., Morera, H., Sarkar, S., **Huang, Y.,** Hall, K. S., Cowan, L. J. and Goldgof, D. (2025). Automated pressure ulcer dimension measurements using a depth camera. *Journal of Wound Care*. *34*(3), 205-214. https://doi.org/10.12968/jowc.2021.0171
9. Lu, Y., Chen, H., Wang, W**., Huang, Y.,** Cheng, F., and Daley, E. (2025). Adjustment of selection bias for clinical trials: a simulation study. *Communications in Statistics-Simulation and Computation*, *54*(7), 2646-2663. https://doi.org/10.1080/03610918.2024.2316281
10. Gu, F., Chen, J., Wang, J., Long, Y., Wang, X. and **Huang, Y.** (2025). Bayesian Expectile Joint Model With Varying Coefficient for Longitudinal and Semi-Competing Risks Data. *Statistics in Medicine*, *44*(18-19), e70219. https://doi.org/10.1002/sim.70219
11. Wang, J., Chen, J., Gu, F., Long, Y., Wang, X. and **Huang, Y.** (2025). Bayesian weighted composite quantile regression for multivariate semi-continuous longitudinal data. *Communications in Statistics-Theory and Methods*, 1-27. https://doi.org/10.1080/03610926.2025.2517285
12. Yuan, Z., Chen, J., Qiu, H., Wang, H., **Huang, Y.,** and Lin, F. (2025). Co-Activation Pattern Analysis based on Hidden Semi-Markov Model for Brain Spatiotemporal Dynamics. *IEEE Transactions on Medical Imaging*. https://doi.org/10.1109/TMI.2025.3607113
13. Xie, J., Chen, J., Wang, Y. and **Huang, Y.** (2025). Bayesian double penalized quantile regression based on linear mixed effects model for longitudinal count data. *Journal of Statistical Computation and Simulation*, *95*(15), 3175-3208. https://doi.org/10.1080/00949655.2025.2519931
14. Wang, Y., Chen, J., Xie, J. and **Huang, Y.** (2025). Bayesian weighted quantile joint model for longitudinal and semi-competing risks data. *Journal of Statistical Computation and Simulation*, 1-27. https://doi.org/10.1080/00949655.2025.2591479
15. Yuan, Z., Chen, J., Qiu, H., Wang, H. and **Huang, Y**. (2024). Adaptive sufficient sparse clustering by controlling false discovery. *Statistics and Computing*, *34*(6), 193. (Springer Nature)
16. Wang, H., Chen, J., Yuan, Z., **Huang, Y.** and Lin, F. (2024). NHSMM-MAR-sdNC: A novel data-driven computational framework for state-dependent effective connectivity analysis. *Medical Image Analysis*. October 2024, Vol. 97 (103290). https://doi.org/10.1016/j.media.2024.103290,
17. Teran-Wodzinski P, Yack HJ, Cole KJ, **Huang Y,** Zhao Y, Davis IS. (2024). Effects of gait retraining in knee joint position sense. *Human Movement Science.* December 2024, Vol. 98:103288 https://doi.org/10.1016/j.humov.2024.103288
18. Teran-Wodzinski P, Yack HJ, Cole KJ, **Huang Y,** Zhao Y, Davis IS (2024). Intra- and interlimb effects of gait retraining in individuals with knee hyperextension. *Clinical Biomechanics*. December 2024, Vol. 120:106357. PMID: 39366139. https://doi.org/10.1016/j.clinbiomech.2024.106357
19. Wang, H., Chen, J., Yuan, Z., **Huang, Y**. and Lin, F. (2024). A novel method for sparse dynamic functional connectivity analysis from resting-state fMRI. *Journal of Neuroscience Methods.* November 2024. Vol. 411: 110275. https://doi.org/10.1016/j.jneumeth.2024.110275
20. Chen J., **Huang Y.,** and Wang Q. (2023). Semiparametric multivariate joint model for skewed-longitudinal and survival data: a Bayesian approach. *Statistics in Medicine* 42:4972-4989. https://doi.org/10.1002/sim.9896.
21. Chase Kingsbury, Shaila Ghanekar, **Yangxin Huang**, Yayi Zhao, Tetsuo Ashizawa, Sheng-Han Kuo, Clifton L Gooch, Theresa A. Zesiewicz (2023). State of the Art and History of Therapeutics in Ataxias. *Trials for Cerebellar Ataxias: Cellular Models to Human Therapies* 691-722. Springer
22. Qiu H., Chen J., Yuan Z. and **Huang Y.** (2023) Empirical Bayes decision for a generalized exponential distribution with contaminated data. *Symmetry.* 15(2), 511. https://doi.org/10.3390/sym15020511
23. Yuan, Z. Chen, J. Qiu, H. and Huang, Y. (2023) Quantile-adaptive sufficient variable screening by controlling false discovery. *Entropy*. 25(3), Article 524. https://doi.org/ 10.3390/e25030524

24. Ficek, J., Chen, H., Lu, Y., **Huang, Y.** and Mayer, J. M. (2023). Assessing the impacts of cluster effects and covariate imbalance in cluster randomized equivalence trials. *Statistics in Biopharmaceutical Research* 15(2), 400-407. https://doi.org/10.1080/19466315.2022.2071981
25. Yuanyuan Lu, Weiliang Cen, Wei Wang, **Yangxin Huang**, Henian Chen (2023). How big is a big hazard ratio in clinical trials? *International Journal of Clinical Trials* 10(3):195-200.
26. M. S. Salekin, G. Zamzmi, D. Goldgof, P. R. Mouton, K. J. Anand, T. Ashmeade, S. Prescott, **Y. Huang**, and Y. Sun. Attentional generative multimodal network for neonatal postoperative pain estimation. *Medical Image Computing and Computer Assisted Intervention (MICCAI) 2022*, vol. 13433, 749–759, Springer Nature Switzerland, 2022 https://link.springer.com/chapter/10.1007/978-3-031-16437-8_72
27. Sihan Gao, Jiaqing Chen, Zihao Yuan, Jie Liu, Yangxin Huang (2022). Double penalized expectile regression for linear mixed effects model. *Symmetry*. 14(8), 1538. https://doi.org/10.3390/sym14081538
28. Yuxia Zhao, Hong Mei, **Huang, Y**., Chen, J. (2022). Impairment of a NIK-SIX feedback axis results in dysregulation of intestinal immune homeostasis and promotes early-onset fatal spontaneous colitis. *Iranian Journal of Immunology*. 19(3): 263-277.
29. Liu J., Chen J. and **Huang Y.** (2022). The estimation of bent line expectile regression model based on a smoothing technique. *Symmetry-Basel.* 14(7), Article 1320. https://doi.org/10.3390/sym14071320
30. Tang N-S., Liu C., Shi J. and **Huang Y.** (2022). Editorial: Bayesian inference and AI. *Frontiers in Big Data* 5:934362. doi: 10.3389/fdata.2022.934362.
31. **Huang, Y.,** Tang, N-S. and Chen, J. (2022). Multivariate piecewise joint models with random change-points for skewed-longitudinal and survival data. *Journal of Applied Statistics* 49(12), 3063-3089. https://doi.org/10.1080/02664763.2021.1935797
32. Zesiewicz, T.A., Vega, J., Gooch, C., Ghanekar, S., **Huang, Y.**, Bezchlibynk, Y., Staffetti, J.S. and Kingsbury, C. (2022). Therapies, research funding and racial diversity in essential tremor: A systematic review of the literature. *Movement Disorders Clinical Practice* 9(6), 728-734. https://doi.org/10.1002/mdc3.13492
33. **Huang Y.,** Chen J. Xu, L. and Tang N-S. (2022). Bayesian joint modeling of multivariate longitudinal and survival data with an application to diabetes study. *Frontiers in Big Data* 5:812725. doi: 10.3389/fdata.2022.812725
34. Chen, J., **Huang, Y.** (Corr author), and Tang, N-S. (2022). Bayesian change-point joint models for multivariate longitudinal and time-to-event data. *Statistics in Biopharmaceutical Research*. 14 (2), 227-241. https://doi.org/10.1080/19466315.2020.1837234
35. **Huang, Y.,** Chen, J, Xu, L., Zhang, H. and Lu, Y. (2021). Bayesian MLIRT-based joint models for multivariate longitudinal and survival data with multiple features. *Journal of Medical Statistics and Informatics* 9:4. http://dx.doi.org/10.7243/2053-7662-9-4
36. Xu, L., **Huang, Y**. (Corr author), Chen, H., Mbah, A. and Cheng, F. (2021). Joint modeling analysis of multivariate skewed-longitudinal and time-to-event data with application to primary biliary cirrhosis study. *Journal of Medical Statistics and Informatics* 9:2. http://dx.doi.org/10.7243/2053-7662-9-2
37. Gou, L., Xiang, M., **Huang, Y.** et al. (2021). Hyperosmolarity deserves more attention in critically ill COVID-19 patients with diabetes: A cohort-based study. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy* 14, 47–58.
38. Zhang, H., **Huang, Y.** (Corr. author) (2021). Bayesian joint modeling for partially linear mixed-effects quantile regression of longitudinal and time-to-event data with limit of detection, covariate measurement errors and skewness. *Journal of Biopharmaceutical Statistics* 31(3), 295-316.
39. Yilei Ma, Xuehan Liu, **Huang, Y**., Ping Yin, etc. (2020), Estimation of the outbreak severity and evaluation of epidemic prevention ability of COVID-19 by province in China. *American Journal of Public Health* 110(12), 1837-1843.
40. Liu, X., Vehik, K., **Huang, Y**. and Krischer, JP. (2020). Distinct growth phases in early life associated with the risk of type 1 diabetes: The TEDDY study. *Diabetes Care* 43(3), 556-562.
41. Zhang, H., **Huang, Y.** (Corr. author) (2020). Quantile regression-based Bayesian joint modeling analysis of longitudinal-survival data, with application to an AIDS cohort study. *Lifetime Data Analysis* 26(2), 339-368.

42. Ye Zhijing, Chen Jiaqing, **Huang, Y**, Li Hong, Wei Yantao , and Xiao Guangrun (2020). Supervised Functional Data Discriminant Analysis for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 58(3), 841-851.
43. Zhang, H., **Huang, Y.** (Corr. author)**,** Wang, W., Chen H. and Langland-Orban, B (2019). Bayesian quantile regression-based partially linear mixed-effects joint models for longitudinal data with multiple features. *Statistical Methods in Medical Research*. 28(2):569-588.
44. Wang HL, McMillan SC, Vijayakumar N, McDonald S, Huang LT, Gwede C, Padhya T, Russell J, Vondruska K, Buck HG, **Huang Y**, Visovsky C. (2019). A behavioral physical activity intervention to manage moderate and severe fatigue among head and neck cancer patients-pre-efficacy study in the national institutes of health ORBIT model. *Cancer Nursing* 42(1):E1-E14.
45. **Huang** Y., Lu X., Chen J., Liang J. and Zangmeister M (2018). Joint model-based clustering of nonlinear longitudinal trajectories and associated time-to-event data analysis, linked by latent class membership: with application to AIDS clinical studies. *Lifetime Data Analysis* 24: 699-718.
46. Zesiewicz T, **Huang Y**, Gooch C. (2018) Double-blind, randomized, controlled trial of EPI-743 in Friedreich's Ataxia. *Neurodegenerative Disease Management* 8(4): 233-242.
47. Lu X, **Huang Y**.(Corr. author), Chen J, Zhou R, Yu S., Yin P. (2018). Bayesian joint analysis of heterogeneous- and skewed-longitudinal data and a binary outcome, with application to AIDS clinical studies. *Statistical Methods in Medical Research* 27(10):2946-2963.
48. Han G., **Huang Y.** (Corr. author)**,** and Yuan A. (2018). Bayesian-frequentist hybrid approach for skew-normal nonlinear mixed-effects joint models in the presence of covariates measured with errors. *Statistics and Its Interface* 11(2):223-236.
49. Pamnani SJ, Sudenga SL, Rollison DE, Ingles DJ, Abrahamsen M, Villa LL, Lazcano-Ponce E, **Huang Y**, Borenstein A, Giuliano AR. (2018). Recurrence of Genital Infections With 9 Human Papillomavirus (HPV) Vaccine Types (6, 11, 16, 18, 31, 33, 45, 52, and 58) Among Men in the HPV Infection in Men (HIM) Study. *J Infect Dis.* 218(8):1219-1227.
50. Xing, D., **Huang, Y**.(Corr. author)**,** Chen, H., Zhu, Y., Dagne, G. A. and Baldwin, J. (2017). Bayesian inference for two-part mixed-effects model using skew distributions, with application to longitudinal semi-continuous alcohol data. *Statistical Method in Medical Research***,** 26(4): 1838-1853.
51. Wang W., Ma Y., **Huang Y**. and Chen H. (2017). Generalizability analysis for clinical trials: A simulation study. *Statistics in Medicine* 36(10):1523-1531.
52. Lu, T. and **Huang, Y**. (Corr. author)**.** (2017) Bayesian inference on mixed-effects varying-coefficient joint models with ST distribution for longitudinal data with multiple features. *Statistical Methods and Medical Research,* 26(3): 1146-1164.
53. **Huang Y** and Xing D. (2017). Bayesian approach to linear mixed-effects models for skewed-longitudinal data. *Stochastic and Data Analysis Methods and Applications in Statistics and Demography*. James R. Bozeman, Teresa Oliveira and Christos H. Skiadas (Eds), 687-704.
54. **Huang** Y., Chen J. and Yin P. (2017). Hierarchical mixture models for longitudinal immunologic data with heterogeneity, non-normality and missingness. *Statistical Methods in Medical Research*. 26(1): 223–247.
55. **Huang Y** and Yan C. (2017). Piecewise mixture modeling for longitudinal virologic data with heterogeneity, non-normality and missingness. *Statistics in Biopharmaceutical Research* 9(1): 85-97.
56. **Huang, Y.** and Lu, T. (2017). Bayesian inference on partially linear mixed-effects joint models for longitudinal data with multiple features. *Computational Statistics* 32(1): 179-196.
57. Zesiewicz TA, Stephenson JB, **Huang Y**. et al. (2017). Longitudinal gait and balance decline in Friedreich's Ataxia: A pilot study. *Gait and Posture* 55:25-30
58. **Huang Y.** and Chen J. (2016). Bayesian quantile regression-based nonlinear mixed-effects joint models for time-to-event and longitudinal data with multiple features. *Statistics in Medicine* 35 5666–5685. DOI: 10.1002/sim.7092
59. Shitaldas J Pamnani, Staci L Sudenga, Dana E Rollison, Donna J Ingles, Martha Abrahamsen, Luisa L Villa, Eduardo Lazcano-Ponce, **Yangxin Huang**, Amy Borenstein, Anna Giuliano. (2016). Impact of serum antibodies to HPV 6, 11, 16, 18 to risk of subsequent genital HPV infections among men: HIM Study. *Cancer Research* 76 (20) 6066-6075. DOI: 10.1158/0008-5472.CAN-16-0224

60. Xing D., **Huang Y**.(Corr. author), Chen H., Zhu Y., Dagne G A. and Baldwin J. (2016). Bayesian inference on bivariate semi-continuous mixed-effects models with application to longitudinal substance use data. *Journal of Advanced Statistics* 3(1): 122-135
61. **Huang Y.,** Dagne G.A. and Park J-G. (2016). Mixture joint models for event time and longitudinal data with multiple features. *Statistics in Biopharmaceutical Research* 8(2): 194-206
62. Shitaldas J Pamnani, Staci L Sudenga, Dana E Rollison, Donna J Ingles, Martha Abrahamsen, Luisa L Villa, Eduardo Lazcano-Ponce, **Yangxin Huang**, Amy Borenstein, Anna Giuliano. (2016). Sequential acquisition of anal HPV infection following genital infection among men who have sex with women: the *HPV* Infection in Men (HIM) Study. *Journal of Infectious Diseases* 214(8):1180-7
63. Meng, R., Li, Y., Chen, X., **Huang, Y**., Shi, H., Du, D., Niu, X., Lu C. and Lu, M. (2016). Aberrant Methylation of RASSF1A Closely Associated with HNSCC, a Meta-Analysis. *Scientific Report*. Feb 9; 6:20756. DOI: 10.1038/srep20756. PMID: 26857374
64. Lu, X., **Huang, Y**.(Corr. author) and Zhu, Y. (2016). Finite mixture of nonlinear mixed-effects joint models in the presence of missing and mismeasured covariate, with application to AIDS studies. *Computational Statistics and Data Analysis.* 9:119-130.
65. Yan C., Chen R. and **Huang Y** (Corr. author) (2016). Mixed-effects models with skewed distributions for time-varying decay rate in HIV dynamics. *Communications in Statistics -Simulation and Computation.* 45(2): 737-757. DOI: 10.1080/03610918.2013.873129
66. **Huang, Y.** (2016) Quantile regression-based Bayesian semiparametric mixed-effects models for longitudinal data with non-normal, missing and mismeasured covariate. *Journal of Statistical Computation and Simulation* 86(6):1183-1202.
67. **Huang Y**, Yan C., Yin P. and Lu M. (2016). A mixture of hierarchical joint models for longitudinal data with heterogeneity, non-normality, missingness and covariate measurement errors. *Journal of Biopharmaceutical Statistics,* 26:2, 299-322.
68. **Huang Y.**, Dagne G.A., Zhou S. and Wang Z. (2015). Piecewise mixed-effects models with skew distributions for evaluating viral load changes: A Bayesian approach. *Statistical Methods in Medical Research,* 24(6): 730-746. **PMID**: 22045781.
69. Chen, L., **Huang**, **Y.,** Kasen, S., Skodol, A., Cohen, P. and Chen, H. (2015). Impact of adolescent personality disorders on obesity 17 years later. *Psychosomatic Medicine*, 77: 921-926.
70. Chen, H., **Huang**, **Y.** and N. Zhang (2015) Joint modeling of a linear mixed effects model for selfesteem from mean ages 13 to 22 and a generalized linear model for anxiety disorder at mean age 33. *Journal of Medical Statistics and Informatics.* 3: Article 1. doi: 10.7243/2053-7662-3-1.
71. Chen, J. and **Huang, Y** (Corr. author) (2015). A Bayesian mixture of semiparametric mixed-effects joint models for skewed-longitudinal and time-to-event data. *Statistics in Medicine.* 34: 2820–2843.
72. Xu Y., Hu B, Alnajm SS., Lu Y., **Huang** Y., Allen-Gipson, D. and F. Cheng. SEGEL: a web server for visualization of smoking effects on human lung gene expression. *PLoS One*. 10(5): e0128326. DOI:10.1371/journal.pone.0128326
73. Shi H., Chen X., Lu C., Gu C., Jiang H., Meng R., Niu X., **Huang** Y. and Lu, M. Association between P16INK4a promoter methylation and HNSCC: A meta-analysis of 21 published studies. *PLoS One*. 10(4): e0122302. DOI:10.1371/journal.pone.0122302
74. Zhang, H. and **Huang, Y** (Corr. author) (2015). Finite mixture models and their applications: A review. *Austin Biometrics and Biostatistics.* 2(1): 1013. http://austinpublishinggroup.com/biometrics/online-first.php
75. Chen J., Wang R. and **Huang Y**. (2015). Semiparametric spatial autoregressive model: A two-step Bayesian approach. *Annals of Public Health and Research.* 2(1): 1012.
76. **Huang Y**., Chen R., Dagne G.A., Zhu Y. and Chen H. (2015). Bayesian bivariate linear mixed-effects models with skew-normal/independent distributions, with application to AIDS studies. *Journal of Biopharmaceutical Statistics* 25(3):373-396.
77. **Huang Y**., Yan C., Xing D., Zhang N., Chen H. (2015). Jointly modeling event time and skewed-longitudinal data with missing response and mismeasured covariate for AIDS studies. *Journal of Biopharmaceutical Statistics.* **25**(4): 670-694.
78. Dagne G.A. and **Huang** Y. (2015). Bayesian Two-part Tobit Models with Left-Censoring, Skewness and Non-Ignorable Missingness. *Journal of Biopharmaceutical Statistics.* **25**(4): 714-730.

- **Peer-reviewed publications before 2015 which were not listed**
  I have also published more than 100 peer-reviewed methodological and scientific articles before 2015

TEACHING EXPERIENCE

- **09/05-present at USF:**
  1. Probability models
  2. Longitudinal data analysis
  3. Multilevel data modelling and analysis
  4. Biostatistical inference I
  5. Categorical data analysis
  6. Linear model analysis of health data
  7. Biostatistical case studies and collaboration I
  8. Biostatistics I
  9. Biostatistics II
  10. Biostatistics in society

- **08/87-06/05 before USF**
  Calculus; Advanced calculus; Probability theory; Introductory statistics; Applied regression analysis; Statistical inference; Linear models; Data collection & analysis; Bayesian methodology in biostatistics; Viral dynamic models

PROFESSIONAL ACTIVITIES AND SERVICES

- **Editorial Board of Journals**
  1. 2015-present: Associate Editor of Journal: Metron
     http://link.springer.com/journal/40300
  2. 2013-present: Editorial Board of Journal: AIDS & Recent Advancements
     http://www.scigmoid.com/journal/index.php?jouid=journal10001
  3. 2013-present: Editorial Board of Journal: Annals of Biometrics and Biostatistics
     http://www.jscimedcentral.com/Biometrics/editors.php
  4. 2014-present: Editorial Board of Journal: Austin Biometrics and Biostatistics
     http://www.austinpublishinggroup.com/biometrics/editorialBoard.php
  5. 2008-2013: Associate Editor of Journal: Computational Statistics and Data Analysis
  6. 2010-2011: Lead Guest Editor for a Special Issue in Journal of Probability and Statistics
     http://www.hindawi.com/journals/jps/si/735909/

- **Professional Membership**
  1. 2001-present: The American Statistical Association;
  2. 1998-present: The Royal Statistical Society;
  3. 2001-present: The International Chinese Statistical Society;
  4. 2008-present: Institute of Mathematics and Statistics.
  5. 2011-present: American Public Health Association

- **Invited Manuscript Reviewer to Journals (2010-present):**
  1) Journal of Applied Statistics; (2) Biometrics; (3) Biometrical Journal; (4) Statistics in Medicine; (5) Computational Statistics and Data Analysis; (6) Statistical Computation and Simulation; (7) The Annals of Applied Statistics; (8) Journal of the American Statistical Association; (9) Journal of Theoretical Biology; (10) Journal of Infectious Disease; (11) International Journal of Quality, Statistics and Reliability; (12) Journal of Agricultural, Biological, and Environmental Statistics; (13) Mathematical Statistics and Applied Probability （in Chinese）; (14) European Journal of Medical Research; Biostatistics; (15) Statistics in Biosciences; (16) International Journal of Biostatistics; (17) Communications in Statistics - Simulation and Computation; (18) Journal of Virology; (19) Psychosomatic Medicine; (20) Statistics in Biopharmaceutical Research; (21)

Statistical Methods in Medical Research; (22) BMC Infectious Diseases; (23) Multivariate Behavioral Research.