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### Research Interests:

- Statistical analysis, including statistical inference, regression, multi-level modeling, longitudinal analysis, factor analysis, and structural equation modeling.
- Machine learning, including clustering, classification, decision tree, splines, kernel methods, and various other supervised and unsupervised learning techniques.
- Information theory, with focus on its application on detection and estimation theory and optimization.

### Education

Ph.D., Princeton University, Electrical Engineering (Statistical Signal/data Analysis)	2002
M.S., Beijing University, Electronics	1997
B.S., Beijing University, Electronics	1994

### Professional Experience

University of Florida, Research Associate Professor	2015 -- Present
University of Illinois at Chicago	
Research Associate Professor	2011 – 2015
Assistant Professor	2004 – 2011
University of Minnesota, Postdoc	2002 – 2004

### Refereed Journal Publications

#### Articles Published

1. Sadhu N, Jhun EH, **Yao Y**, He Y, Molokie RE, Wilkie DJ and Wang ZJ. (In press 2018). Genetic variants of GCH1 associate with acute and chronic pain in African Americans with sickle cell disease. *Exp Hematol*.
2. Jhun, E.H., **Yao, Y.**, He, Y., Molokie, R.E., Wilkie, D.J., & Wang, Z.J. (In press 2018). Glucocorticoid receptor single nucleotide polymorphisms are associated with acute crisis pain in sickle cell disease. *Pharmacogenomics*.
3. Scarton, L., Oh, S., Sylvera A., Lamonge, R., **Yao, Y.**, Emanuel, L., Fitchett, G., Handzo, G., Chochinov, H., & Wilkie, D.J. (In press, 2018). Dignity impact as a primary outcome measure for dignity therapy. *American Journal of Hospice and Palliative Medicine*.
4. Keenan, G.M., Dunn Lopez, K., Sousa, V.E.C., Stifter, J., Macieira, T.G.R., Boyd, A.D., **Yao, Y.**, Herdman, T.H., Moorhead, S., McDaniel, A., & Wilkie, D.J. (2018). A Shovel-Ready Solution to Fill the Nursing Data Gap in the Interdisciplinary Clinical Picture. *International journal of nursing knowledge*, 29(1), 49-58.

5. Jhun, EH, Hu, X, Sadhu, N, **Yao, Y**, He, Y, Wilkie, DJ, Molokie, RE, and Wang, ZJ. (2018). Transient receptor potential polymorphism and haplotype associate with crisis pain in sickle cell disease, *Pharmacogenomics* 19(5), 401-411.
6. Molokie, R. E., Montminy, C., Dionisio, C., Farooqui, M. A., Gowhari, M., **Yao, Y.**, ... & Wilkie, D. J. (2018). Opioid doses and acute care utilization outcomes for adults with sickle cell disease: ED versus acute care unit. *The American journal of emergency medicine*, 36(1), 88-92.
7. Ezenwa, M.O., Molokie, R.E., Wang, Z.J., **Yao, Y.**, Suarez, M.L., Dyal, B., Abudawood, K., & Wilkie, D.J. (In press, November 2017). Differences in Sensory Pain, Expectation, and Satisfaction Reported by Outpatients with Cancer or Sickle Cell Disease. *Pain Management Nursing*.
8. Lyon, D. E., Starkweather, A., **Yao, Y.**, Garrett, T., Kelly, D. L., Menzies, V., ... & Jackson-Cook, C. (2018). Pilot Study of Metabolomics and Psychoneurological Symptoms in Women With Early Stage Breast Cancer. *Biological research for nursing*, 20(2), 227-236.1099800417747411.
9. **Yao, Y.**, Ahn, B., Stifter, J., Wilkie, D.J. & Keenan, G.M. (2018). Continuity index measures in the acute care hospital setting: An analytic review and tests using electronic health record data and computer simulation. *Journal of Nursing Measurement*, 26(1), 20-35.
10. Schlaeger, J. M., Molokie, R. E., **Yao, Y.**, Suarez, M. L., Golembiewski, J., Wilkie, D. J., & Votta-Velis, G. (2017). Management of Sickle Cell Pain Using Pregabalin: A Pilot Study. *Pain Management Nursing*, 18(6), 391-400. doi: 10.1016/j.pmn.2017.07.003.
11. Keenan, G. M., Dunn Lopez, K., **Yao, Y.**, Sousa, V. E. C., Stifter, J., Febretti, A., Johnson, A., Wilkie, D. J. (2017). Toward meaningful care plan clinical decision support: Feasibility and effects of a preclinical simulation study. *Nursing Research*, 66(5), 388-398. PMID: 28858147 PMID: PMC5657586.
12. Stifter, J., Sousa, V., Febretti, A., Dunn Lopez, K., Johnson, A., **Yao, Y.**, Keenan, G., & Wilkie, D. J. (online, Sept 2017). Acceptability of clinical decision support prototypes for a nursing electronic health record to facilitate palliative care outcomes. *International Journal for Nursing Knowledge*. PMID: 28926204. doi: 10.1111/2047-3095.12178.
13. Johnson J.A., Lodhi M.K., Cheema U., Stifter, J., Dunn-Lopez, K., **Yao, Y.**, Johnson, A., Keenan, G.M., Ansari, R., Khokar, A., and Wilkie, D. (2017). Outcomes for End-of-Life Patients with Anticipatory Grieving: Insights from Practice with Standardized Nursing Terminologies within an Interoperable Internet-based Electronic Health Record. *Journal of Hospice and Palliative Care Nursing*, 19 (3), 223-231. doi: 10.1097/NJH.0000000000000333.
14. Ezenwa, M.O., Suarez, M.L., Carrasco, J., Hipp,T., Gill, A., Miller, J., Shea, R., Shuey, D., Zhao, Z., Angulo, V., McCurry, T., Martin, J., **Yao, Y.**, Molokie, R.E., Wang, Z.J., and Wilkie, D.J. (2017). Implementing the PAIN Relieve It Randomized Controlled Trial in Hospice Care: Mechanisms for Success and Meeting PCORI Methodology Standards. *Western journal of nursing research*, 39(7), 924-941. PMID: 27621272. DOI: 10.1177/0193945916668328.
15. Khokhar, A., Lodhi, M., **Yao, Y.**, Ansari, R., Keenan, G. M., & Wilkie, D. J. (2017). Framework for Mining and Analysis of Standardized Nursing Care Plan Data. *Western Journal of Nursing Research*, 39(1), 20-41. PMID: 27756852. DOI:10.1177/0193945916672828.

16. Ezenwa, M.O., **Yao, Y.**, Molokie, R.E., Wang, Z.J., Mandernach, M.W., Suarez, M.L., & Wilkie, D.J. (2017). Coping with Pain in the Face of Healthcare Injustice in Patients with Sickle Cell Disease. *Journal of Immigrant and Minority Health*, 19(6), 1449-1456. Doi: 10.1007/s10903-016-0432-0.
17. Wilkie, D.J., Ezenwa, M.O., **Yao, Y.**, Gill, A., Hipp, T., Shea, R., Miller, J., Carrasco, J., Shuey, D., Zhao, Z., Angulo, V., Suarez, M.L., McCurry, T., Martin, J., Molokie, R.E., & Wang, Z.J. (2017). Pain Intensity and Misconceptions among Hospice Patients with Cancer and their Caregivers: Status after Two Decades. *American Journal of Hospice and Palliative Medicine*, 34(4), 318-324. DOI: 10.1177/1049909116639612.
18. Shah, V., Dileep, A., Dickens, C., Groo, V., Welland, B., Field, J., Baumann, M., Florses, J., Shroff, A., Zhao, Z., **Yao, Y.**, Wilkie, D. J., & Boyd A. (2016). Patient Centered Tablet Application for improving medication adherence after a Drug Eluting Stent. *Frontiers in Public Health*, 4: 272.
19. Hu, X., Jhun, E. H., **Yao, Y.**, He, Y., Molokie, R. E., Wilkie, D. J., & Wang, Z. J. (2016). IL1A rs1800587 associates with chronic noncrisis pain in sickle cell disease. *Pharmacogenomics*, 17(18), 1999-2006.
20. Ezenwa, M., O., Fischer, D., J., Epstein, J., Johnson, J., **Yao, Y.**, & Wilkie, D.J. (2016). Caregivers' perspectives on oral health problems of end-of-life cancer patients. *Supportive Care in Cancer*, 24(11), 4769-4777. doi: 10.1007/s00520-016-3328-6
21. Ezenwa, M. O., **Yao, Y.**, Engeland, C. G., Molokie, R. E., Wang, Z. J., Suarez, M. L., & Wilkie, D. J. (2016). A randomized controlled pilot study feasibility of a tablet-based guided audio-visual relaxation intervention for reducing stress and pain in adults with sickle cell disease. *Journal of advanced nursing*, 72(6), 1452-1463.
22. Hershberger, P. E., Gallo, A. M., Molokie, R., Thompson, A. A., Suarez, M. L., **Yao, Y.**, Dallas, C., & Wilkie, D. J. (2016). Toward understanding family-related characteristics of young adults with sickle-cell disease or sickle-cell trait in the USA. *Journal of clinical nursing*, 25(11-12), 1587-1597.
23. Dunn Lopez, K., Wilkie, D. J., **Yao, Y.**, Sousa, V, Febretti, A, Stifter, J, Johnson, A, & Keenan, G. M. (2016). Nurses' Numeracy and Graphical Literacy: *Informing Studies of Clinical Decision Support Interfaces*. *Journal of Nursing Care Quality*, 31(2), 124-130. PMC4764393.
24. Gallo, A. M., Wilkie, D. J., **Yao, Y.**, Molokie, R. E., Stahl, C. Hershberger, P. E., Zhao, Z., Suarez, M. L., Johnson, B., Angulo, R., Carrasco, J., Angulo, V., & Thompson, A. (2016). Reproductive health CHOICES for young adults with sickle cell disease or trait: Randomized controlled trial outcomes over two years. *Journal of Genetic Counseling*, 25(2), 325-336. doi: 10.1007/s10897-015-9874-0
25. Ezenwa, M.O., Molokie, R. E., Wang, Z. J., **Yao, Y.**, Suarez, M. L., Pullum, C., Schlaeger, J. M., Fillingim, R. B., & Wilkie, D. J. (2016). Safety and utility of quantitative sensory testing among adults with sickle cell disease: Indicators of neuropathic pain? *Pain practice*, 16(3), 282-293.
26. Jhun, E. H., **Yao, Y.**, He, Y., Mack, A. K., Wilkie, D. J., Molokie, R. E., & Wang, Z. J. (2015). Prevalence of pain-related single nucleotide polymorphisms in patients of African origin with sickle cell disease. *Pharmacogenomics*, 16(16), 1795-1806. PMID: 26555434.
27. Stifter, J., **Yao, Y.**, Lodhi, M., Dunn Lopez, K., Khokhar, A., Wilkie, D. J., & Keenan, G. M. (2015). Nurse Continuity and Hospital-Acquired Pressure Ulcers: A Comparative Analysis Using an Electronic Health Record "Big Data" Set. *Nursing Research*, 64(5), 361-71. PMID: 26325278.

28. Sousa, V. E. C., Dunn-Lopez, K., Febretti, A., Stifter, J., **Yao, Y.**, Johnson, A., Wilkie, D.J., & Keenan, G. (2015). Use of Simulation to Study Nurses Acceptance and Non-Acceptance of Clinical Decision Support Suggestions. *Computers, Informatics, Nursing*, 33(10), 465-72. Doi: 10.1097/CIN.0000000000000185. PMC4607642.
29. Stifter, J., **Yao, Y.**, Lopez, K. D., Khokhar, A., Wilkie, D. J., & Keenan, G. M. (2015). Proposing a New Conceptual Model and an Exemplar Measure Using Health Information: Technology to Examine the Impact of Relational Nurse Continuity on Hospital-Acquired Pressure Ulcers. *Advances in Nursing Science*, 38(3), 241-251.
30. Lodhi, M. K., Stifter, J., **Yao, Y.**, Ansari, R., Keenan, G. M., Wilkie, D. J., & Khokhar, A. A. (2015). Predictive Modeling for End-of-Life Pain Outcome Using Electronic Health Records. In *Advances in Data Mining: Applications and Theoretical Aspects* (pp. 56-68). Springer International Publishing.
31. Hershberger, P. E., Gallo, A. M., Molokie, R. E., Stahl, C., Thompson A., Suarez, M. L., **Yao, Y.**, & Wilkie, D. J. (2015). Perception of young adults with sickle cell disease (SCD) or sickle cell trait (SCT) about two web-based, educational interventions. *Journal of Advanced Nursing*, 72(6), 1430-40. PMC4679730.
32. Ezenwa, M.O., Molokie, R. E., Wang, Z. J., Suarez, M. L., **Yao, Y.** & Wilkie, D. J. (2015 Apr 27, online). Satisfied or not satisfied: Pain experiences of patients with sickle cell disease, *Journal of Advanced Nursing*, doi: 10.1111/jan.12678. +105. PMID: 25916256. PMC4624051.
33. **Yao, Y.**, Stifter, J., Ezenwa, M. O., Lodhi, M., Khokhar, A., Ansari, R., Keenan, G. M., Wilkie, D. J. (2015). Infomarkers for Transition to Goals Consistent with Palliative Care in Dying Patients. *Palliative & Supportive Care*, 25, 1-8.
34. Ezenwa, M.O., Molokie, R.E., Wilkie, D.J., Suarez, M.L., & **Yao, Y.** (2015). Perceived Injustice Predicts Stress and Pain in Adults with Sickle Cell Disease. *Pain Management Nursing*, 16(3):294-306. doi: 10.1016/j.pmn.2014.08.004.
35. Lodhi M., Cheema U., Stifter J., Wilkie D., Keenan G., **Yao Y.**, Ansari R., Khokhar A. (2014). Death Anxiety in Hospitalized End-of-Life Patients as Captured from a Structured Electronic Health Record: Differences by Patient and Nurse Characteristics. *Research in Gerontological Nursing*. 7(5) 224-234. doi: 10.3928/19404921-20140818-01
36. Jhun, E., He, Y., **Yao, Y.**, Molokie, R. E., Wilkie, D. J., & Wang, Z. J. (2014). Dopamine D3 receptor Ser9Gly and catechol-O-methyltransferase Val158Met polymorphisms and acute pain in sickle cell disease. *Anesthesia & Analgesia*, 119(5), 1201-7.
37. Ezenwa, M.O., Molokie, R. E., Wang, Z. J., **Yao, Y.**, Suarez, M. L., Angulo, V., & Wilkie, D. J. (2014). Outpatient Pain Predicts Subsequent 1-Year Acute Healthcare Utilization among Adults with Sickle Cell Disease. *Journal of Pain and Symptom Management*, 48(1), 65-74. doi: 10.1016/j.jpainsymman.2013.08.020.
38. Tastan, S., Linch, G. C. F., Keenan, G. M., Stifter, J., McKinney, D., Fahey, L., Dunn Lopez, K., **Yao, Y.**, & Wilkie, D. J. (2014). Evidence for the Existing American Nurses Association-Recognized Standardized Nursing Terminologies: A Systematic Review. *International Journal of Nursing Studies*, 51 (8) 1160–1170. doi:10.1016/j.ijnurstu.2013.12.004.

39. Molokie, R. M., Wilkie, D. J., Wittert, H., Suarez, M. L., **Yao, Y.**, Zhao, Z., He, Y., & Wang, Z. J. (2014). Mechanism Driven Phase 1 Study of Trifluoperazine in Adults with Sickle Cell Disease. *European Journal of Pharmacology*, 723, 419-24. doi.org/10.1016/j.ejphar.2013.10.062i; PMID: 24211787
40. Fischer, D. J., Epstein, J. B., **Yao, Y.**, & Wilkie, D. J. (2014). Oral health problems affect functional and social activities of terminally-ill cancer patients. *Supportive Care in Cancer*, 22(3), 803-810. DOI 10.1007/s00520-013-2037-7; PMID: 24232310
41. Xu, D. and **Yao, Y.** (2013). Splitting tree algorithm for decentralized detection in sensor networks. *IEEE Transactions on Wireless Communications*, 12(12), 6024-6033. DOC: 10.1109/TWC.2013.102413.121244
42. Wilkie, D. J., Gallo, A. M., **Yao, Y.**, Molokie, R.E., Stahl, C. Hershberger, P. E., Labotka, R J., Zhao, Z., Suarez, M. L., Johnson, B., Angulo, R., Angulo, V., Carrasco, J., Shuey, D., Pelligra, S., Rodgers, D.T., Wang, E., & Thompson, A. (2013). Reproductive Health CHOICES for Young Adults with Sickle Cell Disease or Trait Randomized Controlled Trial Immediate Posttest Effects. *Nursing Research*, 62(5), 352-361.
43. Al-Masalha, F. Xu, D., Keenan, G. M., Khokhar, A., **Yao, Y.**, Chen, J., Johnson, A., Ansari, R., & Wilkie, D. J. (2013). Data Mining Nursing Care Plans of End-of-Life Patients: A Study to Improve Healthcare Decision Making. *International Journal of Nursing Knowledge*. 24(1), 15-24.
44. **Yao, Y.**, Keenan, G., Xu, D., Khokhar, A., Al-Masalha, F., Dunn Lopez, K., Ansari, R., & Wilkie, D. J. (2013). Current state of pain care for hospitalized patients at end of life. *American Journal of Hospice and Palliative Medicine*, 30(2), 128-136.
45. Keenan, G. M., Yakel, E., **Yao, Y.**, Xu, D., Szalacha, L., Tschannen, D., Ford, Y., Chen, Y. C., Johnson, A., Dunn Lopez, K., & Wilkie, D. J. (2012). Maintaining a consistent big picture: Meaningful use of a web-based POC EHR system. *International Journal of Nursing Knowledge*, 23(3), 119-133. doi: 10.1111/j.2047-3095.2012.01215.x. PMID: 23043651; PMCID: PMC3674817.
46. **Yao, Y.** (2012). Group-ordered SPRT for decentralized detection. *IEEE Transactions on Information Theory*, vol. 58, no. 6, pp. 3564-3574.
47. Zheng, L., **Yao, Y.**, Deng, M., Yan, S. (2012). Decentralized Detection in Ad hoc Sensor Network with Low Data Rate Inter Sensor Communication. *IEEE Transactions on Information Theory*, vol. 58, no. 5, pp. 3215-3224.
48. Xu, D. and **Yao, Y.** (2012). Contention-based transmission for decentralized detection. *IEEE Transactions on Wireless Communications*, vol. 11, no. 4, pp. 1334-1342.
49. Yellapantula, R., **Yao, Y.**, and Ansari, R. (2009). Antenna Selection and Power Control in MIMO Systems with Continuously Varying Channels. *IEEE Communication Letters*, vol. 13, no. 7, pp. 480-482.
50. Wang, T., **Yao, Y.** and Giannakis, G. B. (2006). Non-Coherent Distributed Space-Time Processing for Multiuser Cooperative Transmissions. *IEEE Transactions on Wireless Communications*, vol. 5, no. 12, pp. 3339-3343.

51. **Yao, Y.**, Cai, X., and Giannakis, G. B. (2005). On energy efficiency and optimum resource allocation in wireless relay transmissions. *IEEE Transactions on Wireless Communications*, vol. 4, no. 6, pp. 2917-2927.
52. **Yao, Y.** and Giannakis, G. B. (2005). Energy-efficient scheduling for wireless sensor Networks. *IEEE Transactions on Communications*, vol. 53, no. 8, pp. 1333–1342.
53. **Yao, Y.** and Giannakis, G. B. (2005). Rate-maximizing power allocation in OFDM based on partial channel knowledge. *IEEE Transactions on Wireless Communications*, vol. 4, no. 3, pp. 1073–1083.
54. **Yao, Y.** and Giannakis, G. B. (2005). On regularity and identifiability of blind source separation under constant modulus constraints. *IEEE Transactions on Signal Processing*, vol. 53, no. 4, pp. 1272–1281.
55. **Yao, Y.** and Giannakis, G. B. (2005). Blind carrier-frequency offset estimation of SISO, MIMO, and multi-user OFDM. *IEEE Transactions on Communications*, vol. 53, no. 1, pp. 173–183.
56. Cai, X., **Yao, Y.**, and Giannakis, G. B. (2005). Achievable rates in low-power relay-links over fading channels. *IEEE Transactions on Communications*, vol. 53, no. 1, pp. 184–194.
57. **Yao, Y.**, Poor, H. V., and Sun, F. (2004). User capacity for synchronous multirate CDMA systems with linear MMSE receivers. *IEEE Transactions on Information Theory*, vol. 50, no. 11, pp. 2785–2793.
58. **Yao, Y.** and Poor, H. V. (2004). Blind detection of synchronous CDMA in non-Gaussian channels. *IEEE Transactions on Signal Processing*, vol. 52, no. 1, pp. 271–279.
59. **Yao, Y.** and Poor, H. V. (2003). A two-layer spreading code scheme for dual-rate DS-CDMA systems. *IEEE Transactions on Communications*, vol. 51, no. 6, pp. 873–879.
60. **Yao, Y.** and Poor, H. V. (2001). Eavesdropping in the synchronous CDMA channel: an EM-based approach. *IEEE Transactions on Signal Processing*, vol. 49, no. 8, pp.1748–1756.

## **Refereed Conference Publications**

### **Research Proceedings**

1. Lodhi, M.K., Ansari, R., **Yao, Y.**, Keenan, G. M., Wilkie, D. J., & Khokhar, A. (2017). Predicting Hospital Re-admissions from Nursing Care Data of Hospitalized Patients. In P. Perner (Ed), *Advances in Data Mining Applications and Theoretical Aspects* (pp. 181-193). New York: Springer. 17th Industrial Conference, ICDM 2017, New York, NY, USA, July 12-13, 2017, DOI 978-3-319-62701-4\_1.
2. Lodhi, M., Ansari, R., **Yao, Y.**, Keenan, G.M., Wilkie, D.J., & Khokhar, A. "A framework to predict outcome for cancer patients using data from a nursing EHR." *In Big Data (Big Data), 2016 IEEE International Conference on*, pp. 3387-3395. IEEE, 2016.
3. Lodhi MK, **Yao Y**, Keenan GM, Ansari R, Wilkie DJ, Khokhar AA. (2015). Predictive Modeling for Comfortable Death Outcome Using Electronic Health Records. *4th International IEEE BigData Congress 2015*, pp 409-415; June 27 - July 2, New York, NY.

4. Lodhi, M., Stifter, J., **Yao, Y.**, Ansari, R., Keenan, G.M., Wilkie, D.J., Khokhar, A. (In press, 2015). "Predictive Modeling for End-of-Life Pain Outcome using Electronic Health Records", *ICDM 2015*
5. Febretti, A., Sousa, V.E.C., Dunn Lopez, K., **Yao, Y.**, Johnson, A., Keenan, G. M., Wilkie, D. J. (2014) One Size Doesn't Fit All: The Efficiency of Graphical, Numerical and Textual Clinical Decision Support for Nurses, *IEEE VIS 2014 Workshop on Electronic Health Record Data Visualization (EHRVis)*, November 9-10 2014, Paris, France.
6. Radakovic, D., Ansari, R., & **Yao, Y.** (2010, October). Low complexity adaptation of H. 264/MPEG-4 SVC for multiple description video coding. In *Wireless Days (WD), 2010 IFIP* (pp. 1-4). IEEE.
7. Radakovic, D., Ansari, R., and **Yao, Y.**, "Content-based rate-adaptive transfer of SVC-encoded video over MIMO communications systems," *Wireless Telecommunications Symp.*, pp. 1–6, Apr. 2010.
8. Xu, D., **Yao, Y.**, and Li, R. Y., "Random access for decentralized detection in wireless sensor networks," *Proc. IEEE VTC 2009-Fall*, pp. 1–5, Anchorage, Alaska.
9. Radakovic, D., Ansari, R., **Yao, Y.**, and Yellapantula, R., "Priority aware transfer of SVD encoded video over MIMO communications system," *Proc. IEEE Picture Coding Symposium*, pp. 1–4, Chicago, IL, May 6–9, 2009.
10. Chen, G., Ansari, R., and **Yao, Y.**, "Improved peak windowing for PAPR reduction in OFDM," *Proc. IEEE VTC 2009-Spring*, pp. 1–5, Barcelona, Apr. 26–29, 2009.
11. Liu, H. and **Yao, Y.**, "A moving radioactive source detection system," *Proc. 43rd Annual Conference on Information Sciences and Systems*, pp. 50–54, Baltimore, MD, Mar 18–20, 2009.
12. Zheng, L. and **Yao, Y.**, "Decentralized detection in relay sensor networks," *Proc. IEEE MILCOM*, pp. 1–7, San Diego, CA, 2008.
13. Xu, D. and **Yao, Y.**, "EM-based distributed estimation in cluttered environments," *Proc. IEEE EIT 2008*, pp. 197–200, Ames, IA, May 18–21, 2008.
14. **Yao, Y.**, "Group-ordered SPRT for distributed detection," *Proc. IEEE ICASSP 2008*, pp. 2525–2528, Las Vegas, NV, Mar. 30–Apr. 4, 2008.
15. Liu, H., Luo, X., and **Yao, Y.**, "Two manifold learning techniques for sensor localization," *Proc. IEEE SMC 2007*, pp. 2114–2118, Montreal, Canada, Oct. 7–10, 2007.
16. Longo, F., Ansari, R., **Yao, Y.**, and Sellone, F., "Erasure pattern selection with active constellation extension for peak-to-average power ratio reduction in OFDM," *Proc. IEEE EIT 2007*, pp. 53–58, Chicago, IL, 2007.
17. Yellapantula, R., **Yao, Y.**, and Ansari, R., "Antenna Selection and Power Control for Limited Feedback MIMO Systems with Interference Cancellation," *Proc. IEEE MILCOM*, pp. 1–5, Washington, DC, Oct. 23-25, 2006.
18. **Yao, Y.**, "Colluder detection for nonlinear collusion attacks," *Proc. 40th Asilomar Conf. Signals, Systems, and Computers*, pp. 603–607, Pacific Grove, CA, 2006.
19. **Yao, Y.** and He, T., "Colluder detection for minimum collusion attacks," *Proc. 12th IEEE Digital Signal Processing Workshop*, pp. 550–554, Jackson Lake Lodge, WY, Sept. 24-27, 2006.

20. Yellapantula, R., **Yao, Y.**, and Ansari, R., "Antenna Selection and Power Control for Limited Feedback MIMO Systems," *Proc. IEEE VTC*, pp. 1–5, Montreal, Canada, Sept. 25-28, 2006.
21. Yellapantula, R., **Yao, Y.**, and Ansari, R., "Unitary Precoding and Power Control in MIMO Systems with Limited Feedback," *Proc. IEEE WCNC*, vol. 3, pp. 1221–1226, Las Vegas, NV, Apr. 3-6, 2006.
22. Wang, T., **Yao, Y.**, and Giannakis, G. B., "Non-coherent distributed space-time processing for multiuser cooperative transmissions," *Proc. Globecom Conf.*, vol. 6, pp. 3738–3742, St. Louis, MO, Nov. 28-Dec. 2, 2005.
23. **Yao, Y.** and Giannakis, G. B., "Energy-efficient scheduling protocols for wireless sensor networks," *Proc. IEEE ICC 2005*, vol. 4, pp. 2759–2763, Seoul, Korea, May 16--20, 2005.
24. **Yao, Y.** and Giannakis, G. B., "Blind CFO estimation for OFDMA-based wireless networks," *Proc. MILCOM*, vol. 3, pp. 1233--1239, Monterey, CA, Oct. 31--Nov. 3, 2004.
25. **Yao, Y.** and Giannakis, G. B., "Blind CFO estimation in OFDM systems," *Proc. IEEE SPAWC*, pp. 353–357, Lisbon, Portugal, July 11-14, 2004.
26. **Yao, Y.** and Giannakis, G. B., "On regularity and identifiability of blind source separation under CM constraints," *Proc. ICASSP*, vol. 4, pp. 449–452, Montreal, Canada, May 17–21, 2004.
27. **Yao, Y.** and Giannakis, G. B., "Rate-maximizing power allocation in OFDM based on partial channel knowledge," *Proc. of Globecom Conf.*, pp. 863–867, San Francisco, CA, December 1-5, 2003.
28. **Yao, Y.** and Poor, H. V., "A new VSL scheme for multi-rate DS-CDMA systems," *Proc. 2002 Fall IEEE Vehicular Technology Conference*, pp. 1369–1373, Vancouver, BC, Sept. 2002.
29. **Yao, Y.** and Poor, H. V., "User capacity for synchronous multirate CDMA systems with linear MMSE receivers," *Proc. IEEE Vehicular Technology Conf.*, Atlantic City, NJ, pp. 2562–2566, Oct. 7–11, 2001.
30. **Yao, Y.** and Poor, H. V., "EM-based blind demodulation of synchronous CDMA," *Proc. IEEE 6th Int'l Symposium on Spread-Spectrum Tech. & Appl.*, pp. 738–742, Parsippany, NJ, Sept. 2000.

### Abstracts

1. Kim, J., **Yao, Y.**, Macieira, T. G. R., Keenan, G. M. (2019) Toward Interoperability of Nursing Problems in the Electronic Health Records: Incorporation of NANDA-I in the SNOMED CT Nursing Problem List Subset, *Southern Nurse Research Society* (Poster presentation), Orlando, FL.
2. Roach, K.L., **Yao, Y.**, Suarez, M.L., Angulo, V., Shuey, D., Ezenwa, M. O., Rutherford, J. N., Schlaeger, J.M., Patil, C.L., Fillingim, R.B., Wang, Z.J., Molokie, R.E., Wilkie, D.J. Age Differences in Normative Values of African American Adults in Quantitative Sensory Testing (QST). *International Association for the Study of Pain 17th World Congress*, Boston. September 2018. (Poster Presentation).
3. Boyd AD, Ndukwe C, Shah V, Fitz K, Dileep A, Everin O, Dominguez T, Dickens C, Groo V, Shroff, **Yao Y**, Peacock G, Francis R, Doukky R, Field J, Baumann M, Welland B, Flores Jr J, Gurowski G,



Wilkie DJ. (2018) My Interventional Drug Eluting Stent Education App (MyIDEA). *2018 Urban Health Informatics Conference and Exhibit*, New York Academy of Medicine, New York, New York, April 30<sup>th</sup>, 2018.

4. Roach, K. L., **Yao, Y.**, Suarez, M. L., Angulo, V., Shuey, D., Ezenwa, M. O., Rutherford, J. N., Schlaeger, J. M., Patil, C. L., Fillingim, R. B., Wang, Z. J., Molokie, R. E., Wilkie, D. J. (2018) Age Differences in Normative Values of African American Adults in Quantitative Sensory Testing (QST). *International Society for the Study of Pain 17th World Congress* (Poster Presentation).
5. Roach, K.L., Molokie, R.E., Wang, Z.J., Ezenwa, M.O., Shuey, D., Angulo, V., Suarez, M.L., Schlaeger, J.E., **Yao, Y.**, Wilkie, D.L. (March 2018) PAINReport# Number of Neuropathic pain descriptors Pain Scale Validation in Adults with Sickle Cell Disease. Podium presentation at the *Southern Nurse Research Society*, Atlanta, GA (March 2018).
6. Ezenwa, M.O., **Yao, Y.**, Nguyen, M.T., Mandernach, M.W., Hunter, C.T., Yoon, S., Amador, A., Sylvera, A., Lamonge, R.B., Lyon, D., & Wilkie, D.J. (2017). The Effects of Relaxation Intervention on Pain, Stress, and Autonomic Responses among Adults with Sickle Cell Pain in the Outpatient Setting. To be presented March 2018 at the *Annual American Pain Society Conference*, Anaheim, California.
7. Dominguez T, Dickens C, Groo V, Shroff A, **Yao Y**, Wilkie DJ, Peacock G, Francis R, Doukky R, Boyd AD (2017). Subanalysis of Timing and Usability for the Patient-Centered Tablet Application: My Interventional Drug Eluting Stent Education App (MyIDEA). *ABRCMS Annual Biomedical Research Conference for Minority Students 2017*, Phoenix, AZ November 1-4, 2017.
8. Scarton, L., **Yao, Y.**, Ezenwa, M.O., Suarez, M.L., Wang, Z.J., Molokie, R.E., & Wilkie, D.J. (2017). Comparison between Hospice Cancer Patients with and without Diabetes: Patient Reported Outcomes. Poster presentation at the 77th American Diabetes Association Scientific Sessions. San Diego, CA. June 2017.
9. Roach, K.L., Molokie, R.E., Wang, Z.J., Ezenwa, M.O., Shuey, D., Carrasco, J., Angulo, V., Suarez, M.L., Schlaeger, J.M., **Yao, Y.**, & Wilkie, D.J. (2017). Pain in Adults with Sickle Cell Disease: Validation of a Neuropathic Pain Scale Derived from the McGill Pain Questionnaire. Poster presentation April 2017 at the MNRS Annual Conference, Minneapolis, MN.
10. Dileep A, Dickens C, Groo VL, Shroff A, Wilkie DJ, Zhao Z, **Yao Y**, Boyd AD. (2017). Exploration of Factors Affecting Adherence After Use of a Mobile Application Focused on Cardiology Medication, *American Pharmacists Association (APhA) Annual Meeting & Exposition*. San Francisco, CA. March 25, 2017.
11. Macieira, T.G.R., Smith, M.B., Davis, N., **Yao, Y.**, Wilkie, D.J., Dunn Lopez, K., & Keenan, G. (2017). *Evidence of progress in making nursing practice visible using standardized nursing data: a systematic review*. Paper presented at the AMIA 2017 Annual Symposium, Washington, D.C.
12. Glover, T.L., **Yao, Y.**, Ezenwa, M.O., Suarez, M., Wang, Z.J., Molokie, R.E. & Wilkie, D.J. (2017, February). Pain Intensity, Symptom Distress, and Number of Comorbidities Differ by Age Groups among Hospice Patients with Cancer. Poster presentation at the American Academy of Hospice and Palliative Medicine/Hospice and Palliative Nurses Association Annual Assembly. Phoenix, AZ.
13. Gallegos, L., Wilkie, D.J., **Yao, Y.**, Glover, T, Ezenwa, M.O., Suarez, M., Wang, Z.J., & Molokie, R. (2017). Differences in Patient Reported Outcomes by Age: Evidence Against Reporting Bias. Poster presentation at the 31<sup>st</sup> Annual Conference Southern Nursing Research Society. Dallas, TX.

14. Wilkie, D.J., **Yao, Y.**, Glover, T, Ezenwa, M.O., Suarez, M., Wang, Z.J., & Molokie, R. (2017). Pain and Symptom Distress Differ by Age Groups of Cancer Hospice Patients but Pain Barriers Do Not. Accepted for oral presentation at the *31st Annual Conference Southern Nursing Research Society*. Dallas, TX. February 2017.
15. Schoppee, T. M., Molokie, R. E., Wang, Z. W., Ezenwa, M. O., **Yao, Y.**, & Wilkie, D. J. (2017). Tablet technology: An effective pain reporting tool. *31st Annual Conference Southern Nursing Research Society*. Dallas, TX. February 2017.
16. Dyal, B. W., **Yao, Y.**, Ezenwa, M. O., Wang, Z. J., Molokie, R., & Wilkie, D. J. (2017). Understanding the Association between Recognized Stress and Pain Management Barriers in Adult Sickle Cell Patients. *31st Annual Conference Southern Nursing Research Society*. Dallas, TX. February 2017.
17. Roach, K.L., Molokie, R.E., Wang, Z.J., Ezenwa, M.O., Shuey, D., Carrasco, J., Angulo, V., Schlaeger, J.M., Suarez, M.L., **Yao, Y.**, and Wilkie, D.J. (2016). Validation of PAINReportIt Neuropathic Pain Scale in African American Adults with Sickle Cell Disease (Accepted October 2016). *American Society of Hematology*, vol. 128 no. 22 3525.
18. Macieira T, Smith, M., Davis, N., **Yao, Y.**, Wilkie, D.J., & Keenan, G. (2016, November). Evidence of progress in making nursing practice visible using standardized nursing data: a systematic review. Poster presented at the *4th Annual Nursing Research Day*, Gainesville, FL.
19. Roach, K.L., Jhun, E.H., **Yao, Y.**, Ezenwa, M.O., Suarez, M.L., Molokie, R.E., Wang, Z.J., & Wilkie, D.J. Pain Factors Associated with Arginine Vasopressin Receptor 1A SNP (rs10877969) in Patients with Sickle Cell Disease (2016). *16th Congress on Pain for the International Association for the Study of Pain (IASP)*, Yokohama, Japan. September 2016.
20. Ezenwa, M.O., **Yao, Y.**, Wang, Z.J; Suarez, M.L., Zhao, Z., Carrasco, J., Angulo, V., Shuey, D., Roach, K., Mandernach, M.W., Molokie, R.E., & Wilkie, D.J. Perceived Discrimination is Related to Emotional Impact Scores of the Patient-Reported Outcome Measure, the Adult Sickle Cell Quality-of-Life Measurement (ASCQ-Me), (2016). *16th Congress on Pain for the International Association for the Study of Pain (IASP)*, Yokohama, Japan. September 2016.
21. Gallo, A. M., Wilkie, D. J. & **Yao, Y.** (2016). Stability and variations for the Theory of Reasoned Action personal factors and subjective norms in young adults with sickle cell disease (SCD) or sickle cell trait (SCT) over 2 years. Presented at International Society of Nurses in Genetics (ISONG) Conference, August 5, 2016, Dublin, Ireland.
22. Ezenwa, M.O., **Yao, Y.**, Wang, Z.J., Suarez, M.L., Zhao, Z., Carrasco, J., Angulo, V., Shuey, D., Roach, K., Mandernach, M.W., Molokie, R.E., & Wilkie, D.J. (2016). Perceived Discrimination is Related to Emotional/Psychological and Physical Symptoms in Sickle Cell Disease. *27th International Nursing Research Congress*, Cape Town, South Africa. July 2016.
23. Ezenwa, M.O., **Yao, Y.**, Molokie, R.E. Suarez, M.L., Zhao, Z., Carrasco, J., Angulo, V., Shuey, D., Roach, K., Mandernach, M.W., Wang, Z.J., & Wilkie, D.J. (2016). The Association of Perceived Stress to Physical and Affective Health Outcomes in Sickle Cell Disease. *27th International Nursing Research Congress*, Cape Town, South Africa. July 2016.
24. McCurry, T. , **Yao, Y.**, Ezenwa, M.O., Gill, A., Hipp, T., Shea, R., Miller, J., Carrasco, J., Shuey, D., Frank, K., Nardi, N., Murry, M., Glendenning, J., Bagcus, C., Perez, J., Angulo, V., Suarez, M.L., Wang, Z.W., Molokie, R.E., & Wilkie, D.J. (2016). Patient reported outcomes (PRO) using Internet-

based tablets to inform hospice care for minority and non-Hispanic white (NHW) cancer patients. American Society of Clinical Oncology Annual Meeting, June 4-7, 2016, Chicago, IL.

25. Shah V\*, Dickens C\*, **Yao Y**, Shroff A, Wilkie DJ, Boyd AD, (2016). Use of a novel mobile health tablet application for minority drug eluting stent patients with low health literacy. *The Institute for Healthcare advancement*. (\*equal work as first author) May 5, 2016, Anaheim, CA.
26. Jhun, E.H., **Yao, Y.**, He, Y., Molokie, R.E., Wilkie, D.J., & Wang, Z.J. (2016). Beta2-adrenergic receptor gene polymorphisms and haplotypes associate with chronic pain in sickle cell disease. *The American Pain Society Annual Scientific Meeting*, Austin, Texas. May 2016.
27. Hu, X., Jhun, E.H., **Yao, Y.**, He, Y., Molokie, R.E., Wilkie, D.J., & Wang, Z.J. (2016). Interleukin 1alpha rs1800587 associates with chronic non-crisis pain in sickle cell disease. *The American Pain Society Annual Scientific Meeting*, Austin, Texas. May 2016.
28. Roach, K.L., Jhun, E.H., Ying, H., Suarez, M.L., **Yao, Y.**, Molokie, R.E., Wang, Z.J., & Wilkie, D.J. (2016). Vasopressin SNP is related to sickle cell acute care utilization for pain. *The American Pain Society Annual Scientific Meeting*, Austin, Texas. May 2016.
29. Ezenwa, M.O., **Yao, Y.**, Molokie, R.E., Wang, Z.J., Suarez, M.L., Zhao, Z., Carrasco, J., Angulo, V., Shuey, D., Roach, K., Oraifo, G., & Wilkie, D.J. (2016). The Association of Sickle Cell-related Stigma with Physical and Emotional Symptoms in Patients with Sickle Cell Pain. *The American Pain Society Annual Scientific Meeting*, Austin, Texas. May 2016.
30. Ezenwa, M.O., **Yao, Y.**, Suarez, M.L., Zhao, Z., Carrasco, J., Angulo, V., Shuey, D., Roach, K., Wang, Z.J., Molokie, R.E., & Wilkie, D.J. (2016). Normative Values for Quantitative Sensory Testing in African Americans. *The American Pain Society Annual Scientific Meeting*, Austin, Texas. May 2016.
31. Wilkie, Diana, PhD; McCurry, T.; **Yao, Y.**; Ezenwa, M.O.; Gill, A.; Hipp, T.; Shea, R., Miller, J.; Carrasco, J.; Shuey, D.; Frank, K.; Nardi, N.; Murry, M.; Glendenning, J.; Bagcus, C.; Perez, J.; Angulo, V.; Suarez, M.L.; Wang, Z.W.; Molokie, R.E. (2016). Minority and non-Hispanic white (NHW) cancer patients report outcomes (PRO) using Internet-based tablets to inform their hospice care. Accepted for e-poster presentation, University of Florida College of Nursing Research Day, April 1, 2016, Gainesville, FL.
32. Glover, T., Wilkie, D., Bonner, G., Keenan, G., **Yao, Y.** et al. Palliative Care Research in Vulnerable Populations (SA516). *Journal of Pain and Symptom Management*, 51(2), 391–392. (Abstract for three presentation symposium at the 2016 AAHPM and HPNA Annual Assembly, March 9-12, 2016, Chicago, IL. (1) 1) Glover, T.L., **Yao, Y.**, Macieira, T.G., Smith, M.B., Lodhi, M.K., Keenan, G., & Wilkie, D.J. Nursing Care Plans Related to Pain in the Hospitalized Oldest Old from the HANDS Dataset; (2) Bonner, G.J., Steffen, A., D., Burke, L. A., Hart, A.S., Wilkie, D.J., Preliminary Results: Effective Strategies to Recruit African American Family Caregivers for a Randomized Controlled Trial on End-of-Life Treatment Decisions for Relatives Diagnosed with Dementia; (3) Wilkie, D.J., Ezenwa, M.O., **Yao, Y.**, Gill, A., Hipp, T., Shea, R., Miller, J., Carrasco, J., Shuey, D., Zhao, Z., Angulo, V., Suarez, M.L., McCurry, T., Martin, J., Molokie, R.E., & Wang, Z.W. Pain Intensity and Misconceptions among 100 Hospice Patients with Cancer and their Caregivers.)
33. Wilkie, D.J., Gill, A., Hipp, T., Shea, R., Miller, J., Rice, T., Mamantov, A., Carrasco, J., Shuey, D., Zhao, Z., Angulo, V., Suarez, M.L., McCurry, T., Martin, J., Ezenwa, M.O., Molokie, R.E., Wang, Z.W., & **Yao, Y.** Patient Reported Outcomes (PRO) with a Tablet-based Intervention to Facilitate

Cancer Pain Control: Challenges and Successes. Accepted for oral presentation at the 30th SNRS Annual Conference, Williamsburg, VA, February 24-27, 2016.

34. Gallo, A. M., Wilkie, D., Molokie, R., Suarez, M., **Yao, Y.**, Thompson, A., Hershberger, P., Jenerette, C., Adegbola, M., Jacob, E., Swartz, M., Visiting Nurse Scholar Presentation: Helping young adults with sickle cell disease or trait make informed reproductive decisions. Paper at the Children's Hospital of Wisconsin, Milwaukee, WI, December 3, 2015.
35. Gallo, A. M., Wilkie, D., Jenerette, C., Adegbola, M., Jacob, E., Swartz, M., Molokie, R., Suarez, M., **Yao, Y.**, Thompson, A., Hershberger, P. Comparing study processes of two reproductive health intervention studies that used a face-to-face and an Internet delivery for young adults with sickle cell disease or sickle cell trait. Paper presented at International Society of Nurses in Genetics (ISONG) Conference, Pittsburgh, PA, November 7, 2015.
36. Hershberger, P. E., Gallo, A. M., Molokie, R., Thompson, A., Suarez, M. L., **Yao, Y.**, Zhao, Z., Johnson, B., Dallas, C. M., Wilkie, D. J. Family-related characteristics of young adults with sickle cell disease or sickle cell trait: A context for a randomized controlled trial of reproductive health education. Paper presented at 12th International Family Nursing Conference, Odense, Denmark, August 19, 2015.
37. Gallo, A. M., Wilkie, D. J., **Yao, Y.**, Molokie, R. E., Stahl, C. Hershberger, P. E., Zhao, Z., Suarez, M. L., Johnson, B., Angulo, R., Carrasco, J., Angulo, V., & Thompson, A. CHOICES intervention effects on reproductive health knowledge, intention and behavior over 24 months. Paper presented at 12<sup>th</sup> International Family Nursing Conference, Odense, Denmark, August 20, 2015.
38. Ezenwa, M.O., **Yao, Y.**, Molokie, R.E., Engeland, C.G., Wang, Z.J., Suarez, M.L., Zhao, Z., & Wilkie, D.J. Symposium: Research with Vulnerable Young Adults. Guided Imagery Intervention for Stress and Pain in Adults with Sickle Cell Disease (July, 2015). Will be presented at the 26<sup>th</sup> International Nursing Research Congress of the Sigma Theta Tau International Honour Society of Nursing, San Juan, Puerto Rico.
39. Ezenwa, M.O., **Yao, Y.**, Molokie, R.E., Engeland, C.G., Wang, Z.J., Suarez, M.L., Zhao, Z., & Wilkie, D.J. Stress them Up, Give them Pain. The *Tango* Relations of Stress and Pain in Sickle Cell Disease (April, 2015). Will be presented at the Annual Midwest Nursing Research Society Conference, Indianapolis, Indiana.
40. Ezenwa, M.O., **Yao, Y.**, Molokie, R.E., Engeland, C.G., Wang, Z.J., Suarez, M.L., Zhao, Z., & Wilkie, D.J. Quantitative Sensory Testing (QST) and Salivary Cortisol Protocol in Adults with Sickle Cell Disease (April, 2015). Will be presented at the Annual Midwest Nursing Research Society Conference, Indianapolis, Indiana.
41. Ezenwa, M.O., **Yao, Y.**, Molokie, R.E., Engeland, C.G., Wang, Z.J., Suarez, M.L., Zhao, Z., Carrasco, J., Angulo, R., & Wilkie, D.J. Feasibility of an Internet-enabled Tablet-based Guided Imagery for Stress and Pain Reduction Intervention in Adults with Sickle Cell Disease (May, 2015). Will be presented at Annual American Pain Society Conference, Palm Spring, California.
42. Febretti, A., Sousa, V.E.C., Dunn Lopez, K., **Yao, Y.**, Johnson, A., Keenan, G. M., Wilkie, D. J. "One Size Doesn't Fit All: The Efficiency of Graphical, Numerical and Textual Clinical Decision Support for Nurses", *IEEE VIS 2014 Workshop on Electronic Health Record Data Visualization (EHRVis)*, November 9-10 2014, Paris, France.

43. Gallo, A.M., Wilkie, D.J., Hershberger, P.E., Molokie, R.E., Stahl, C., Thompson, A., Suarez, M.L., **Yao, Y.**, Zhao, Z., Angulo, R., Carrasco, J., Angulo, V., Shuey, D., & Johnson, B. CHOICES intervention effects on sickle cell reproductive health knowledge from baseline to 24 months. Paper presented at the 2014 International Society of Nurses in Genetics (ISONG) Annual Research Conference. Scottsdale, AZ, November 8, 2014.
44. Keenan, G. M., **Yao, Y.**, Stifter, J., Ezenwa, M. O., Lodhi, M. K., Khokhar, A., Ansari, R., & Wilkie, D. J. (2014). Using NNN to Identify Nursing Markers Signaling Care Goal Changes for End-of-Life Patients. International Conference on Nursing Knowledge, Porto, Portugal, September 2014.
45. Stifter, J., **Yao, Y.**, Lodhi, M. K., Dunn Lopez, K., Khokhar, A., Wilkie, D. J., & Keenan, G. M. (2014). Creating a Comparable Control Group Using Standardized NANDA-I, NOC, and NIC (NNN) Terminologies to Examine the Influence of Nurse Staffing on Patient Outcomes. International Conference on Nursing Knowledge, Porto, Portugal, September 2014.
46. Keenan, G. M., Stifter, J., Febretti, A., Lodhi, M., Dunn-Lopez, K., **Yao, Y.**, Khokhar, A., Johnson, A., Ansari, R., Wilkie, D. J. (April 9<sup>th</sup>, 2014). Well tested electronic care planning system produces powerful evidence for nursing care decision. Poster presented at *the Advocate Health System Research Day*. Chicago, IL.
47. Jhun, E., **Yao, Y.**, Molokie, R. E., Wilkie, D. J., & Wang, Z. J. (2014, April 4). Molecular Genetics of Pain in Sickle Cell Disease: Role of the Monoamine Neurotransmitter System. Poster presentation at the Society of Neuroscience Chicago Chapter Meeting.
48. Hershberger, P.E., Gallo, A.M., Wilkie, D.J., Suarez, M.L., Molokie, R.E., Stahl, C., **Yao, Y.**, Zhao, Z., Johnson, B., Angulo, R., Angulo, V., Carrasco, J., Shuey, D., & Thompson, A. (March 27-30, 2014). Understanding perceptions of individuals with sickle cell trait (SCT) or sickle cell disease (SCD) participating in two computerized, educational programs. Paper presented at the *2014 Midwest Nursing Research Society Annual Research Conference*. St. Louis, MO, March 28, 2014.
49. Gallo, A.M., Hershberger, P.E., Wilkie, D.J., Molokie, R.E., Stahl, C., Thompson, A., Suarez, M.L., **Yao, Y.**, Zhao, Z., Angulo, R., Carrasco, J., Angulo, V., Shuey, D., Johnson, B. Views of people with sickle cell disease (SCD) or sickle cell trait (SCT) about reproductive options. Paper presented at *the 2014 Midwest Nursing Research Society (MNRS) Annual Research Conference*. St. Louis, MO, March 28, 2014.
50. Wilkie, D. J., Molokie, R. E., Suarez, M. L., **Yao, Y.**, Zhao, Z., He, Y., & Wang, Z. J. (2014). Trifluoperazine in Adults with Sickle Cell Disease: A Mechanism-Driven Phase I Translational Study. Abstract accepted for presentation at the *Midwest Nursing Research Society 38th Annual Research Conference Proceedings*, March 27-30, 2014, St. Louis, MO.
51. Jhun, E., **Yao, Y.**, Molokie, R. E., Wilkie, D. J., & Wang, Z. J. (2014, March). Molecular Genetics of Pain in Sickle Cell Disease: Role of the Monoamine Neurotransmitter System. Poster presentation at the University of Illinois at Chicago College of Pharmacy Research Day.
52. Gallo, A.M., Wilkie, D.J., Molokie, R.E., Hershberger, P. E., Stahl, C., Thompson, A., Suarez, M.L., **Yao, Y.**, Zhao, Z., Johnson, B. Angulo, R., Angulo, V., Shuey, D., Carrasco, J. CHOICES intervention effects on sickle cell reproductive health knowledge. Paper presented at the *International Society of Nurses in Genetics (ISONG) Annual Conference*, Bethesda, MD, October 4-6, 2013.

53. Gallo, A.M., Wilkie, D.J., Molokie, R., Hershberger, P. E., Molokie, R.E., Stahl, C., Thompson, A., Suarez, M.L., **Yao, Y.**, Zhao, Z., Angulo, R., Angulo, V., Shuey, D., Carrasco, J., & Johnson, B. (2013) Parenting plans In young adults with sickle cell disease (SCD) or sickle cell trait (SCT). Paper presented at the 11th International Family Nursing Conference, Minneapolis, MN, June 19-22, 2013.
54. Gallo, A.M., Wilkie, D.J., Molokie, R., Hershberger, P. E., Molokie, R.E., Stahl, C., Thompson, A., Suarez, M.L., **Yao, Y.**, Zhao, Z., Angulo, R., Angulo, V., Shuey, D., Carrasco, J., & Johnson, B. (2013). Young adults with sickle cell disease (SCD) and sickle cell trait (SCT) interaction with the CHOICES intervention. Paper presented at the 2013 Midwest Nursing Research Society Research Conference, Chicago, IL, March 8, 2013.
55. Wilkie, D. J., Gallo, A.M., Molokie, R., Hershberger, P. E., Molokie, R.E., Stahl, C., Thompson, A., Suarez, M.L., **Yao, Y.**, Zhao, Z., Angulo, R., Angulo, V., Shuey, D., Carrasco, J., & Johnson, B. (2013). Acceptability of a Web-based reproductive health study for adults with SCD or SCT. Paper presented at the 2013 Midwest Nursing Research Society Annual Research Conference, Chicago, IL, March 8, 2013.
56. Cheema, U., Lodhi, M. K., Stifter, J., **Yao, Y.**, Dunn-Lopez, K., Ansari, R., Wilkie, D. J., Khokhar, A., & Keenan, G. (2013). Nursing Care of End-of-Life Patients Facing Death Anxiety. Paper presented at the 2013 Midwest Nursing Research Society Annual Research Conference, Chicago, IL, March 8, 2013.
57. Lodhi, M. K., Cheema, U., Stifter, J., **Yao, Y.**, Dunn-Lopez, K., Keenan, G., Ansari, R., Wilkie, D.J., & Khokhar, A. (2013). State of Nursing Care Patients with Anticipatory Grieving: Lessons Learned from Standardized Nursing Data. Paper presented at the 2013 Midwest Nursing Research Society Annual Research Conference, Chicago, IL, March 8, 2013.
58. Keenan, G., **Yao, Y.**, Dunn-Lopez, K., Stifter, J., & Wilkie, D.J. (2013). Use of the EHR to monitor unit based practice patterns. Paper presented at the 2013 Midwest Nursing Research Society Annual Research Conference, Chicago, IL, March 8, 2013.
59. **Yao, Y.**, Keenan, G., Stifter, J., Dunn-Lopez, K., Khokhar, A., Ansari, R., & Wilkie, D. J. (2013). Practice-based Evidence from an Electronic Health Record (EHR): Insight for Improving Pain Management at the End of Life (EOL). Paper presented at the 2013 Midwest Nursing Research Society Annual Research Conference, Chicago, IL, March 8, 2013.
60. Mckinnery, D., Tastan, S., Linch, G., Stifter, J., Fahey, L., Dunn-Lopez, K., **Yao, Y.**, Wilkie, D.J., & Keenan, G. (2013). Evidence in Support of Standardized Nursing Taxonomies (SNT): A Systematic Review to Inform Decisions about their Inclusion in the Electronic Health Record (EHR). Poster presented at the 2013 Midwest Nursing Research Society Annual Research Conference, Chicago, IL, March 9, 2013.
61. Keenan, G. M., Khokhar, A., **Yao, Y.**, Johnson, A. E., & Wilkie, D. J. (2012). Meaningful Use of End-of-Life Data in EHR Systems: Multidisciplinary Challenges and Opportunities. Symposium of four papers presented at the AMIA Annu Symp Proc, Chicago, IL.

## **Research Support**

### Funded Grants

- 2013-2018 Wilkie, D.J., Molokie, R.E., Wang, Z.W., Ezenwa, M.O., Yao, Y., Runge, M., & Ahern, P. *Computerized PAINRelievelt Protocol for Cancer Pain Control in Hospice*. Patient-centered Outcomes Research Institute, IH-104-6553, \$1,853,351. Role: Co-I.
- 2014-2018 Wilkie, D.J. (MPI, contact), Molokie, R.E. (MPI, contact as of 9/2/2015), Wang, Z.J. (MPI), Ezenwa, M.O., Yao, Y., & Fillingim, R (consultant). *Phenotypic Characterization of Chronic Pain in Adults with Sickle Cell Disease*. National Institutes of Health, National Heart, Lung and Blood Institute, 1R01HL124945-01, \$3,131,986. Role: Co-I.
- 2015-2019 Wilkie, D.J. (MPI, contact), Molokie, R.E. (MPI, contact as of 9/2/2015), Wang, Z.J. (MPI), & Roach, K. *Phenotypic Characterization of Chronic Pain in Adults with Sickle Cell Disease*. National Institutes of Health, National Heart, Lung and Blood Institute 5), 1R01HL124945-02S1, \$119,776. Role: Statistician.
- 2016-2021 Emanuel, L. (MPI), Wilkie, D.J. (contact), (MPI), Fitchett, G. (MPI), Handzo, G., Delgado Guay, M.O., Dunn, L., Houser, J., Quest, T., & Beerepoot, L. *Dignity Therapy RCT led by Nurses or Chaplains for Elderly Cancer Outpatients*. National Institutes of Health, National Cancer Institute, 1R01CA200867-01, \$3,917,265. Role: Statistician.
- 2017-2022 Schlaeger, J. M. (PI contact), Wilkie, D. J., Steffen, A. D., Kobak, W., Yao, Y. *Double-blind Phase 2 RCT: Effect of Acupuncture on Patient Vulvodynia Outcomes*. National Institutes of Health, Eunice Kennedy Shriver National Institute of Child Health and Human Development, R01HD091210-01A1, \$2,036,320. Role: Co-I.
- 2017-2019 Wilkie, D.J., Erden, S., Lucero, R., Arsian, S., Gezer, S., & Yao, Y. *Evaluating the Tablet-based Turkish-PAINReportIt® for Assessing Pain of Lung Cancer Patients Post Thoracotomy in TURKEY*. National Institutes of Health, National Cancer Institute, 1 R01CA207026-01A1, \$285,176. Role: Co-I.
- 2018-2023 Odedina, Wilkie (MPIs), *2/3 Florida-California Cancer Research, Education and Engagement (CaRE2) Health Equity Center*. NIH/NCI, U54CA233444. Role: Co-I.
- Completed
- 2012-2017 Gallo, A. (MPI), Wilkie, D.J. (MPI, contact), Molokie, R., Yao, Y., Hershberger, P., Stahl, C., & Thompson, A. *Sickle Cell Reproductive CHOICES: Efficacy of a Primary Prevention Intervention*. National Institutes of Health, National Heart Lung & Blood Institute, 1R01HL114404, \$1,719,516. Role: Statistician.
- 2014-2017 Boyd, A. (PI), *My IDEA, a tailored patient Cardiac Catheterization app*. UIC Roybal Center. Role: Co-I.
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