

Karen Dunn Lopez, PhD, MPH, RN, FAAN

Professor
Director, Center for Nursing Classification and Clinical Effectiveness

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EDUCATION

2008 PhD, Nursing Science, University of Iowa, Iowa City, Iowa
1992 MPH, Health Services, Boston University, Boston, Massachusetts
1985 BSN, University of Pennsylvania, Philadelphia, Pennsylvania

LICENSURE

2018–present Registered Nurse, State of Iowa # 097038

PROFESSIONAL EXPERIENCE

Academic Appointments

2024–present Professor, University of Iowa, Iowa City, Iowa
2019–2024 Associate Professor, University of Iowa, Iowa City, Iowa
2011–2019 Assistant Professor, University of Illinois at Chicago, Chicago, Illinois
2009–2011 Post-Doctoral Fellow, University of Illinois at Chicago, Chicago, Illinois

Clinical and Research Appointments

2004–2006 Research Assistant, University of Chicago Hospitals, Chicago, Illinois
2002–2003 Teaching Assistant, University of Iowa, College of Nursing, Iowa City, Iowa
1999–2000 Research Analyst, Athena Healthcare, Chicago, Illinois
1998–2000 Research Assistant, University of Iowa Hospitals and Clinics, Department of Family Medicine, Iowa City, Iowa
1997–1998 Technical Writer and Editor, University of Iowa, College of Nursing, Iowa City, Iowa
1995–1996 Public Health Nurse Policy Advisor, Childhood Lead Poisoning Prevention Program, Massachusetts Department of Public Health, Boston, Massachusetts

1990–1995	Hematology Research Nurse, Children’s Hospital, Boston, Massachusetts
1989–1993	Bone Marrow Transplant Nurse, Dana Farber Cancer, Boston, Massachusetts
1987–1989	Clinical Nurse, Memorial Sloan Kettering, New York, New York
1985–1987	Clinical Nurse, Beth Israel Hospital, Boston, Massachusetts

HONORS AND AWARDS

2023–2026	Iowa Faculty Scholar, University of Iowa
2023–2025	Distinguished Scholar in Nursing, University of Iowa, College of Nursing
2023	Finalist- Student Supervisor of the Year, University of Iowa
2023	Faculty Mentor Award, University of Iowa, College of Nursing
2021	Fellow, American Academy of Nursing
2020	Mid-Career Researcher Award, Decision Making Research Interest Group, Midwest Nursing Research Society
2020	Distinguished Abstract, Midwest Nursing Research Society
2018	Visiting Scholar, School of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Indonesia
2013	Junior Researcher Award, Health Systems, Policy, and Informatics Research Interest Group, Midwest Nursing Research Society
2000	Inducted to Sigma Theta Tau, Gamma Chapter

SCHOLARSHIP

Publications

<https://www.ncbi.nlm.nih.gov/myncbi/1TGCCfRN01g5u/bibliography/public/>
<https://orcid.org/0000-0002-9700-941X>

- Published or Accepted & In Press = 70
- Google Scholar Metric (9/2/24)
 - h-index 26
 - >2300 Total citations

Key:

* = databased

bold = my authorship

underlined = senior author

~ = mentored student, post-doctoral fellow, or junior faculty as author

Journal Articles, Peer Reviewed

Under Review

Dunn Lopez, et al. (under review)_Engaging nurses in research to test usable and useful health information technologies: Results of a multistate recruitment strategy Rejected Nursing Outlook, Under review Nursing Research

Accepted

1. da Costa Ferreira Oberfrank, N., Watkinson, E., Buck, H., & **Dunn Lopez, K.** Patient Interpretations of Heart Failure Symptom Recognition and Self-Management using Vignettes. *Western Journal of Nursing Research*.

Published

2. Madandola, O. O., Bjarnadottir, R. I., Yao, Y., Ansell, M., Dos Santos, F., Cho, H., **Dunn Lopez, K.**, Maciera, T., & Keenan, G. M. (2024). The relationship between electronic health records user interface features and data quality of patient clinical information: an integrative review. *Journal of the American Medical Informatics Association*, 31(1), 240-255.
3. Chae, S., Bae, J., Youn, N., Dunn Lopez, K., Sutamtewagul, G., & Rakel, B. (2024). Agreement between patient-reported and clinically documented symptoms of acute myeloid leukemia: Study protocol. *Journal of Advanced Nursing*.
4. Krupp, A., Potter, K., Wendt, L., Lopez, K.D., Dunn, H. (2024). Using electronic health records to classify risk for adverse safety events with ICU patient mobility: a cross-sectional study. *Intensive & Critical Care Nursing*
5. da Costa Ferreira Oberfrank, N., Watkinson, E., Buck, H., & Lopez, K. D. (2024). Assessing Heart Failure Self-management Knowledge Through Vignettes. *The Journal of cardiovascular nursing*, 10.1097/JCN.0000000000001107. Advance online publication. <https://doi.org/10.1097/JCN.0000000000001107>
6. *~Ferreira, R. C., **Dunn Lopez, K.**, Moorhead, S., Zuchatti, B. V., Pereira, P. C. C., & Duran, E. C. M. (2024). Using Interoperable Nursing Care Data to Improve Outcomes for Multiple Traumas Patients with Impaired Physical Mobility. *Journal of Clinical Nursing*. Advance online publication. <https://doi.org/10.1111/jocn.17140>
7. *Nibbelink, C. W., **Dunn Lopez, K.**, Reeves, J. J., Horman, S., & El-Kareh, R. E. (2023). Nurse and Physician Perceptions and Decision Making During Interdisciplinary Communication: Factors That Influence Communication Channel Selection. *CIN: Computers, Informatics, Nursing*, 10-1097.
8. Davis, H.A., Santillan, D.A., Ortman, C.E., Hoberg, A.A., Hetrick, J.P., McBrearty, C.W., Zeng, E., Vaughan Sarrazin, M.S., **Dunn Lopez, K.**, Chapman, C.G. and Carnahan, R.M. (2024). The Iowa Health Data Resource (IHDR): an innovative framework for transforming the clinical health data ecosystem. *Journal of the American Medical Informatics Association*, 31(3), pp.720-726.
9. Monsen, K.A., Heermann Langford, L., Bakken, S., & **Dunn Lopez, K.** (2023 [Editorial]). Standardized nursing terminologies come of age: Advancing quality of care, population health, and health equity across the care continuum. *Journal of the American Medical Informatics Association*.
10. Monsen, K., Heermann Langford, L., & **Dunn Lopez, K.** (2023). FHIR-up! Advancing knowledge from clinical data through application of standardized nursing terminologies within HL7 FHIR. *Journal of the American Medical Informatics Association*. <https://doi.org/10.1093/jamia/ocad131>
11. *Yao, Y., **Dunn Lopez, K.**, Bjarnadottir, R., Macieira, T. G. R., Dos Santos, F. C., Mandola, O. O., Cho, H., Priola, K. J. B., Wolf, J., Wilkie, D. J., & Keenan, G. M. (2023). Examining care planning efficiency and clinical decision support adoption in a system tailoring to nurses' graph literacy:

A National web-based RCT. *Journal of Medical Internet Research*.
<https://www.jmir.org/2023/1/e45043/PDF>

12. **Dunn Lopez, K.**, Heermann Langford, L., Kennedy, R., McCormick, K., Delaney, C. W., Alexander, G., Englebright, J., Carroll, W. M., & Monsen, K. A. Future advancement of health care through standardized nursing terminologies: Reflections from a Friends of the National Library of Medicine Workshop honoring Virginia K. Saba. *Journal of the American Medical Informatics Association*. Advance online publication. <https://doi.org/10.1093/jamia/ocad156>
13. *Dos Santos, F. C., Yao, Y., Macieira, T. G. R., **Dunn Lopez, K.**, & Keenan, G. M. (2023). Nurses' preferences for the format of care planning clinical decision support coded with standardized nursing terminologies. *Journal of the American Medical Informatics Association*. Advance online publication. <https://doi.org/10.1093/jamia/ocad093>
14. *~Schwartz, C. I., Farag, A., **Dunn Lopez, K.**, Moorhead, S., & Monsen, K. A. (2023). Using Omaha System data to explore relationships between client outcomes, phenotypes, and targeted home intervention approaches: An exemplar examining practice effectiveness for older women with circulation problems. *Journal of the American Medical Informatics Association*. Advance online publication. <https://doi.org/10.1093/jamia/ocad106>
15. Wagner, C. M., Jensen, G. A., Lopes, C. T., McMullan Moreno, E. A., DeBoer, E., & **Dunn Lopez, K.** (2023). Removing the roadblocks to promoting health equity: Finding the social determinants of health addressed in standardized nursing classifications. *Journal of the American Medical Informatics Association*. Advance online publication. <https://doi.org/10.1093/jamia/ocad098>
16. Zhang, M., Zhu, L., Lin, S.-Y., Herr, K., Chi, C.-L., Demir, I., **Dunn Lopez K.**, & Chi, N.-C (2023). Using artificial intelligence to improve pain assessment and pain management: A scoping review. *Journal of the American Medical Informatics Association*, 30(3), 570–587. <https://doi.org/10.1093/jamia/ocac231>
17. Krupp, A., & **Dunn Lopez, K.** (2023). Leveraging implementation science with using decision support technology to drive meaningful change for nurses and nursing leadership. *Nurse Leader*. doi: [10.2196/41051](https://doi.org/10.2196/41051)
18. **Dunn Lopez, K.**, Yao, Y., Cho, H., Dos Santos, F. C., Madandola, O. O., Bjarnadottir, R. I., Macieira, T. G. R., Garcia, A. L., Priola, K. J. B., Wolf J., Bian, J., Wilkie, D. J., & Keenan, G. M. (2022). Conducting a representative national randomized control trial of tailored clinical decision support for nurses remotely: Methods and implications. *Contemporary Clinical Trials*, 118, 106712. <https://doi.org/10.1016%2Fj.cct.2022.106712>
19. *Krupp, A., Steege, L., Lee, J., **Dunn Lopez, K.**, & King, B. (2022). Supporting decision-making about patient mobility in the intensive care unit nurse work environment: Work domain analysis. *JMIR Nursing*, 5(1), e41051. <https://doi.org/10.2196/41051>
20. *~Cho, H., Keenan, G., Madandola, O. O., Dos Santos, F. C., Macieira, T. G. R., Bjarnadottir, R. I., Priola, K. J. B., & **Dunn Lopez, K.** (2022). Assessing the usability of a clinical decision support system: Heuristic evaluation. *JMIR Human Factors*, 9(2), e31758. <https://doi.org/10.2196/31758>

21. Dos Santos, F. C., Macieira, T. G. R., Yao, Y., Hunter, S., Madandola, O. O., Cho, H., Bjarnadottir, R. I., **Dunn Lopez, K.**, Wilkie, D. J., & Keenan, G. M. (2022). Spiritual interventions delivered by nurses to address patients' needs in hospitals or long-term care facilities: A systematic review. *Journal of Palliative Medicine*, 25(4), 662–677.
<https://doi.org/10.1089/jpm.2021.0578>
22. da Silva, R. C., Cavalcante, A. M. R. Z., de Sá, E. S., Gondim, M. C., Santana, A. B., de Matos, M. A., Bachion, M. M., de Barros, A. L. B. L., **Dunn Lopez, K.**, Swanson, E. A., & Moorhead, S. (2022). Evaluation of the effectiveness of nursing interventions in research from Brazilian postgraduation programs. *International Journal of Nursing Knowledge*.
<https://doi.org/10.1111/2047-3095.12405>
23. Wagner, C. M., Swanson, E. A., Moorhead, S., Monteiro Mantovani, V., **Dunn Lopez, K.**, Macieira, T. G. R., Abe, N., & Breitenstein, S. (2022). NANDA-I, NOC, and NIC linkages to SARS-CoV-2 (COVID-19): Part 3. Family response. *International Journal of Nursing Knowledge*, 33(1), 5–17. <https://doi.org/10.1111/2047-3095.12323>
24. **Dunn Lopez, K.**, Chin, C.-L., Azevedo, R. F. L., Kaushik, V., Roy, B., Schuh, W., Banks, K., Sousa, V., & Morrow, D. (2021). Electronic health record usability and workload changes over time for provider and nursing staff following transition to new EHR. *Applied Ergonomics*, 93, 103359 <https://doi.org/10.1016/j.apergo.2021.103359>
25. Moorhead, S., Macieira, T. G. R., **Dunn Lopez, K.**, Monteiro Mantovani, V., Swanson, E., Wagner, C., & Abe, N. (2021). NANDA-I, NOC, and NIC linkages to SARS-CoV-2 (COVID-19): Part 1. Community Response. *International Journal of Nursing Knowledge*, 32(1), 59–67.
<https://doi.org/10.1111/2047-3095.12291>
26. Swanson, E., Monteiro Mantovani, V., Wagner, C., Moorhead, S., **Dunn Lopez, K.**, Macieira, T. G. R., & Abe, N. (2021). NANDA-I, NOC, and NIC linkages to SARS-CoV-2 (COVID-19): Part 2. Individual Response. *International Journal of Nursing Knowledge*, 32(1), 68–83.
<https://doi.org/10.1111/2047-3095.12307>
27. ***Dunn Lopez, K.**, Cravero, C., Krishnan, A., Carvalho de Sousa Freire, V., & Culbert, G. J. (2020). Feasibility of a mHealth survey application for incarcerated and post-release people living with HIV in a low-resource setting. *Research in Nursing and Health*, 44(1), 201–212.
<https://doi.org/10.1002/nur.22098>
28. ***Dunn Lopez, K.**, Chae, S., Girgis, M., Fraczkowski, D., Habibi, P., Chattopadhyay, D., & Donevant, S. B. (2020). Improved readability and functions needed for Mhealth apps targeting patients with heart failure: An app store review. *Research in Nursing and Health*, 44(1), 71–80.
<https://doi.org/10.1002/nur.22078>
29. *~Vatani, H., Sharma, H., Azhar, K., Kochendorfer, K., Valenta, A. L., & **Dunn Lopez, K.** (2020). Required data elements for interprofessional rounds through the lens of multiple professions. *Journal of Interprofessional Care*. <https://doi.org/10.1080/13561820.2020.1832447>
30. ~Pruinelli, L., Farag, A., Looman, W., Chevalier McKechnie, A., Monsen, K. A., Van Gelderen, S., & **Dunn Lopez, K.** (2020). The symbiotic collaboration between family nursing and data science. *Computers, Informatics, Nursing*, 38(8), 375–380.
<https://doi.org/10.1097/CIN.0000000000000675>

31. ~Fraczkowski, D., Matson, J., & **Dunn Lopez, K.** (2020). Nurse workarounds in the electronic health record: An integrative review. *Journal of the American Medical Informatics Association*, 27(7), 1149–1165. <https://doi.org/10.1093/jamia/ocaa050>
32. *O'Rourke, J., **Dunn Lopez, K.**, Riesenberger, L. A., & Abraham, J. (2020). Comparison of a nurse-nurse handoff mnemonic with real-world handoffs. *Journal of Nursing Care Quality*, 35(4), 336–340. <https://doi.org/10.1097/ncq.0000000000000465>
33. **Dunn Lopez, K.**, Gephart S. M., & Hershberger, P. E. (2020). Using online survey software to enhance rigor and efficiency of knowledge synthesis reviews. *Western Journal of Nursing Research*, 42(10), 838–845. <https://doi.org/10.1177/0193945920904442>
34. Macieira, T. G. R., Chianca, T. C. M., Smith, M. B., Yao, Y., Bian, J., Wilkie, D. J., **Dunn Lopez, K.**, & Keenan, G. M. (2019). Secondary use of standardized nursing care data for advancing nursing science and practice: A systematic review. *Journal of the American Medical Informatics Association*, 26(11), 1401–1411. <https://doi.org/10.1093/jamia/ocz086>
35. Lee, S. E., Scott, L. D., Dahinten, V. S., Vincent, C., **Dunn Lopez, K.**, & Park, C. G. (2019). Safety culture, patient safety, and quality of care outcomes: A literature review. *Western Journal of Nursing Research*, 41(2), 279–304. <https://doi.org/10.1177/0193945917747416>
36. *Acharya, S., Boyd, A. D., Cameron, R., **Dunn Lopez, K.**, Martyn-Nemeth, P., Dickens, C., Ardati, A., Flores, J.D., Jr., Baumann, M., Welland, B., & Di Eugenio, B. (2019). What happened to me while I was in the hospital? Challenges and opportunities for generating patient-friendly hospitalization summaries. *Journal of Healthcare Informatics Research*, 3(1), 107–123. <https://doi.org/10.1007%2Fs41666-018-0036-7>
37. *Stifter, J., Sousa, V. E. C., Febretti, A., **Dunn Lopez, K.**, Johnson, A., Yao, Y., Keenan, G. M. & Wilkie, D. J. (2018). Acceptability of clinical decision support interface prototypes for a nursing electronic health record to facilitate supportive care outcomes. *International Journal of Nursing Knowledge*, 29(4), 242–252. <https://doi.org/10.1111/2047-3095.12178>
38. Keenan, G. M., Yao, Y., **Dunn Lopez, K.**, Sousa, V. E. C., Stifter, J., Macieira, T. G. R., Boyd, A. D., Herdman, T. H., Moorhead, S., McDaniel, A., & Wilkie, D. J. (2018). Response to: Letter to the editor - Comments on the use of LOINC and SNOMED CT for representing nursing data. *International Journal of Nursing Knowledge*, 29(2), 86–88. <https://doi.org/10.1111/2047-3095.12182>
39. *~Sousa Freire, V. E. C., Lopes, M. V. O., Keenan, G. M., & **Dunn Lopez, K.** (2018). Nursing students' diagnostic accuracy using a computer-based clinical scenario simulation. *Nursing Education Today*, 71, 240–246. <https://doi.org/10.1016/j.nedt.2018.10.001>
40. *~Lockwood, M. B., **Dunn Lopez, K.**, Pauls, H., Burke, L., Shah, S. D., & Saunders, M. A. (2018). If you build it, they may not come: Modifiable barriers to patient portal use among pre- and post-kidney transplant patients. *JAMIA Open*, 1(2), 255–264. <https://doi.org/10.1093/jamiaopen/ooy024>
41. *Lee, S. E., Vincent, C., Dahinten, V. S., Scott, L. D., Park, C. G., & **Dunn Lopez, K.** (2018). Effects of individual nurse and hospital characteristics on patient adverse events and quality of care: A multilevel analysis. *Journal of Nursing Scholarship*, 50(4), 432–440. <https://doi.org/10.1111/jnu.12396>

42. *Boyd, A. D., **Dunn Lopez, K.**, Lugaresi, C., Macieira, T., Sousa, V., Acharya, S., Balasubramanian, A., Roussi, K., Keenan, G. M., Lussier, Y. A., Li, J. J., Burton, M., & Di Eugenio, B. (2018). Physician nurse care: A new use of UMLS to measure professional contribution: Are we talking about the same patient a new graph matching algorithm? *International Journal of Medical Informatics*, 113, 63–71. <https://doi.org/10.1016/j.ijmedinf.2018.02.002>
 - 2019 Included in Association of Medical Directors of Information Systems *Year in Review*.
43. *~O'Rourke, J., Abraham, J., Riesenber, L. A., & **Dunn Lopez, K.** (2018). A Delphi study to identify the core components of nurse-to-nurse handoff. *Journal of Advanced Nursing*, 74(7), 1659–1671. <https://doi.org/10.1111/jan.13565>
44. *Lockwood, M. B., **Dunn Lopez, K.**, Burke, L., Becker, Y. T., & Saunders, M. (2017). Frequency of in-home internet use among prekidney and postkidney transplant patients- Facilitators and barriers to use and trends over time. *Transplantation Direct*, 3(11), e216. <https://doi.org/10.1097/TXD.0000000000000735>
45. **Dunn Lopez, K.**, Gephart, S. M., Raszewski, R., Sousa, V., Shehorn, L. E., & Abraham, J. (2017). Integrative review of clinical decision support for registered nurses in acute care settings. *Journal of the American Medical Informatics Association*, 24(2), 441–450. <https://doi.org/10.1093/jamia/ocw084>
 - 2018 Included in American Medical Informatics Association's Nursing Informatics Work Group's *Year in Review*
46. *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 simulated pilot study. *Nursing Research*, 66(5), 388–398. <https://doi.org/10.1097/NNR.0000000000000234>
47. ~Sousa, V. E. C., & **Dunn Lopez, K.** (2017). Towards usable E-health: A systematic review of usability questionnaires. *Applied Clinical Informatics*, 8(2), 470–490. <https://doi.org/10.4338/ACI-2016-10-R-0170>
48. *Johnson, J., Lodhi, M. K., Cheema, U., Stifter, J., **Dunn Lopez, K.**, Yao, Y., Johnson, A., Keenan, G. M., Ansari, R., Khokhar, A., & Wilkie, D. J. (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 Nursing*, 19(3), 223–231. <https://doi.org/10.1097/NJH.0000000000000333>
49. 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. (2017). A shovel-ready solution to fill the nursing data gap in the interdisciplinary clinical picture. *International Journal of Nursing Knowledge*, 29(1), 49–58. <https://doi.org/10.1111/2047-3095.12168>
50. *~Sousa V. E. C., ~Matson J., & **Dunn Lopez K.** (2016). Questionnaire adapting: Little changes mean a lot. *Western Journal of Nursing Research*, 39(9), 1289–1300. <https://doi.org/10.1177/0193945916678212>

51. *~ de Sousa, V. E. C., de Oliveira Lopes, M. V., Keenan, G. M., & **Dunn Lopez, K.** (2016). Developing and testing of a software prototype to support diagnostic reasoning of nursing students. *International Journal of Nursing Knowledge*, 29(2), 124–132.
<https://doi.org/10.1111/2047-3095.12145>
52. **Dunn Lopez, K.**, Febretti, A., Stifter, J., Johnson, A., Wilkie, D. J., & Keenan, G. (2016). Toward a more robust and efficient usability testing method of clinical decision support for nurses derived from nursing electronic health record data. *International Journal of Nursing Knowledge*, 28(4), 211–218. <https://doi.org/10.1111/2047-3095.12146>
53. ***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.
<https://doi.org/10.1097/NCQ.0000000000000149>
54. *Abraham, J., Kannampallil, T., Brenner, C., **Lopez, K. D.**, Almoosa, K. F., Patel, B., & Patel, V. L. (2016). Characterizing the structure and content of nurse handoffs: A sequential conversational analysis approach. *Journal Biomedical Informatics*, 59, 76–88.
<https://doi.org/10.1016/j.jbi.2015.11.009>
55. *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 nonacceptance of clinical decision support suggestions. *Computers, Informatics, Nursing*, 33(10), 465–472.
<https://doi.org/10.1097/CIN.0000000000000185>
56. 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.
<https://doi.org/10.1097/ANS.0000000000000081>
57. *Stifter, J., Yao, Y., Lodhi, M. K., **Lopez, K. D.**, Khokhar, A., Wilkie, D., & 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), 361–371.
<https://doi.org/10.1097/NNR.0000000000000112>
58. Keenan, G. M., & **Dunn Lopez, K.** (2014). Critical conversations about optimal design column: Thorough error testing a requirement for strong EHR usability. *Online Journal of Nursing Informatics*, 18(3).
<http://www.himss.org/ResourceLibrary/GenResourceDetail.aspx?ItemNumber=33531>
59. 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. <https://doi.org/10.1016/j.ijnurstu.2013.12.004>
60. *~Fahey, L., **Dunn Lopez, K.**, Storfjell, J., & Keenan, G. M. (2013). Expanding potential of radiofrequency nurse call systems to measure nursing time in patient rooms. *Journal of Nursing Administration*, 43(5), 302–307. <https://doi.org/10.1097/NNA.0b013e31828eebe1>

61. *Keenan, G., Yakel, E., **Dunn Lopez, K.**, Tschannen, D., & Ford, Y. B. (2013). Challenges to nurses' efforts of retrieving, documenting and communicating patient care. *Journal of the American Medical Informatics Association*, 20(2), 245–251. <https://doi.org/10.1136/amiajn-2012-000894>
 - 2014 Finalist for the American Medical Informatics Association Diana Forsythe Award for Best Exemplifying the Intersection of Informatics and Social Sciences
 - 2014 Included in American Medical Informatics Association's *Year in Review*
62. *Yao, Y., Keenan, G., Al-Masalha, F., **Dunn Lopez, K.**, Khokhar, A., Johnson, A., 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. <https://doi.org/10.1177/1049909112444458>
63. 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. <https://doi.org/10.1111/j.2047-3095.2012.01215.x>
64. ***Dunn Lopez, K.**, Gerling, G., Cary, M. P., & Kanak, M. F. (2010). Cognitive work analysis to evaluate the problem of patient falls in an inpatient setting. *Journal of the American Medical Informatics Association*, 17(3), 313–321. <https://doi.org/10.1136/jamia.2009.000422>
65. **Dunn Lopez, K.**, & Guinan, E. C. (1995). GM-CSF clinical trials: pediatric aplastic anemia and Fanconi's anemia. *Pediatric Nursing*, 21(4), 345–349.
66. *Guinan, E. C., **Dunn Lopez, K.**, Huhn, R. D., Felser, J. M., & Nathan, D. G. (1994). Evaluation of granulocyte-macrophage colony-stimulating factor for treatment of pancytopenia in children with Fanconi anemia. *Journal of Pediatrics*, 124(1), 144–150. [https://doi.org/10.1016/S0022-3476\(94\)70271-3](https://doi.org/10.1016/S0022-3476(94)70271-3)
67. *Guinan, E. C., Lee, Y. S., **Dunn Lopez, K.**, Kohler, S., Oette, D. H., Bruno, E., Kozakewich, H., Nathan, D. G., & Hoffman, R. (1993). Effects of interleukin-3 and granulocyte-macrophage colony-stimulating factor on thrombopoiesis in congenital amegakaryocytic thrombocytopenia. *Blood*, 81(7), 1691–1698.

Journal Articles, Invited

68. Garcia, A., Ivory, C., Swanson, E., Jenkins, P., Caspers, B., **Dunn Lopez, K.**, ... & Delaney, C. (2024). Data, Science, and Nursing Value. Operationalizing Nursing Value. *Nursing Economic\$, 42*(1).
69. **Dunn Lopez, K.**, & McCormick, K. (2023). Embarking on a new era for standardized terminologies. *Computers, Informatics, Nursing*, 41(1), 6–7. <https://doi.org/10.1097/cin.0000000000000990>
70. **Dunn Lopez, K.**, & Tiase, V. L. (2020). Alliance for Nursing Informatics support and advocacy of consumer health. *Computers, Informatics, Nursing*, 38(2), 60–61. <https://doi.org/10.1097/CIN.0000000000000619>
71. *~Pertiwij, A. A. P., ~Fraczkowski, D., Stogis, S. L., & **Dunn Lopez, K.** (2018). Using heuristic evaluation to improve sepsis alert usability [Special Issue: Human Factors and Technology in

the ICU]. *Critical Care Nursing Clinics of North America*, 30(2), 297–309.
<https://doi.org/10.1016/j.cnc.2018.02.011>

- 2018 American Medical Informatics Association’s Nursing Informatics Work Group’s *Year in Review*
72. **Dunn Lopez, K.**, Castner, J., Pruinelli L., Schoville, R., Piscotty, R. J., Farag, A., Abusalem, S., & Monsen, K. A. (2018). Shared passion at the nexus of nursing informatics, systems, policy, and research: Midwest Nursing Research Society advances the state of the science. *Computers, Informatics, Nursing*, 36(1), 5–7. <https://doi.org/10.1097/CIN.0000000000000412>
 73. **Dunn Lopez, K.**, & Fahey, L. (2018). Advocating for greater usability in clinical technologies: The role of the practicing nurse [Special Issue: Human Factors and Technology in the ICU]. *Critical Care Nursing Clinics of North America*, 30(2), 247–257.
<https://doi.org/10.1016/j.cnc.2018.02.007>
 - 2018 Included in American Medical Informatics Association’s Nursing Informatics Work Group’s *Year in Review*

Book Chapters, Invited

Published

1. Morrow, D. G., & **Dunn Lopez, K.** (In Press). Theoretical foundations for health communication research and practice. In V. L. Patel, T.G. Kannampallil, & D. R. Kaufman (Eds.), *Cognitive informatics for biomedicine: Human computer interaction in healthcare* (pp. 35–57). Springer.
2. **Dunn Lopez, K.**, Janeway, L., & Berg, M. (2021). Nursing informatics for leaders in clinical nursing. In D. Huber, & L. M. Josephs (Eds.), *Leadership and nursing care management* (7th ed., pp. 495–509). Elsevier.
3. **Dunn Lopez, K.**, O’Rourke, J., Lane-Fall, M. B., & Abraham, J. (2021). Improving handoffs using systems frameworks and simulation. In E. S. Deutsch, S. J. Perry, H. G. Gurnaney (Eds.), *Comprehensive healthcare simulation: Improving healthcare systems*. (pp. 73–76). Springer.
https://doi.org/10.1007/978-3-030-72973-8_10
4. Morrow, D. G., & **Dunn Lopez, K.** (2015). Theoretical foundations for health communication research and practice. In V. L. Patel, T.G. Kannampallil, & D. R. Kaufman (Eds.), *Cognitive informatics for biomedicine: Human computer interaction in healthcare* (pp. 35–57). Springer.
http://dx.doi.org/10.1007/978-3-319-17272-9_3
5. **Dunn Lopez, K.**, & Keenan, G. (2010). Collaboration between nurses and physicians: The need for a broader view. In P. S. Cowen, & S. Moorhead (Eds.), *Current issues in nursing* (8th ed., pp. 468–479). Mosby.
6. **Dunn Lopez, K.** (2010). Ethics of health care reform: Should health care be rationed? In P. S. Cowen, & S. Moorhead (Eds.), *Current issues in nursing* (8th ed., pp. 598–609). Mosby.
7. **Dunn Lopez, K.** (2006). Ethics of health care reform: Should health care be rationed? In P. S. Cowen, & S. Moorhead (Eds.), *Current issues in nursing* (7th ed., pp. 611–619). Mosby.

Scientific Research Grants

Intramural Research Grants, Funded

- 2023-2024 *Symptoms and multiple chronic conditions associated with post-induction unplanned readmissions in patients with acute myeloid leukemia.* Role: Co-Investigator. Principal Investigator: Chae, Role: Collaborator; *Funding:* University of Iowa, Seeding Excellence Initiative-Office of the Vice President for Research Early Career Scholars; *Amount:* \$30,000
- 2021-2026 *The Iowa Health Data Resource: Building the future of health informatics at the University of Iowa*
Project Lead: Knosp, B.; *Role:* Intercollegiate Advisory and Implementation Team Member, Lead Faculty Liaison College of Nursing; *Funding:* University of Iowa Public Private Partnership; *Amount:* \$2,220,441
- 2020-2021 *A data-driven approach to classify safety criteria for mobility readiness*
Principal Investigator: Krupp, A.; *Role:* Research Mentor; *Funding:* University of Iowa, College of Nursing, Jo Ellen Ross Research Grant; *Amount:* \$10,000
- 2013-2016 *Benefits and unintended consequences of communication technology use in hospitals*
Principal Investigator: Dunn Lopez, K.; *Role:* Principal Investigator; *Funding:* The University of Illinois at Chicago, Office of the Vice Chancellor for Research, Campus Research Board; *Amount:* \$20,000
- 2011-2012 *Evaluating the impact of electronic health record system on outpatient clinical processes*
Principal Investigator: Morrow, D.; *Role:* Co-Investigator, As the only clinician researcher on this team, I led the planning and execution of data collection in routine clinical workflow as well as collaborating on the interpretation of analytic findings.; *Funding:* University of Illinois at Urbana-Champaign, Office of the Vice-Chancellor for Research and Beckman Institute, Faculty Seed Grant.; *Amount:* \$7,120

Extramural Research Grants, Funded

- 2024-2026 Creating AI-enabled All-Health Team Data Fabric (CAIDF)
Principal Investigators (MPIs): Boyd, A., Craven C., Dunn Lopez, K. (25-30% over two years). On this team I provide primary leadership for all sites on tasks that include nursing documentation data, as well as project execution leadership and University of Iowa research staff oversight. *Funding:* The Advanced Research Projects Agency for Health (ARPA-H). *Amount* \$ 9.8 million.
- 2024-2026 *Improving Identification and Coordination of Mobility Interventions in the ICU Using Clinical Decision Support*
Principal Investigators (MPIs): Krupp & Dunn Lopez, K. (10-15% over 2 years). On this team I lead the AIMS 1. This includes: Aim 1 user centered design testing with intensive care nurses and physical therapists. *Funding:* Agency for Healthcare Research and Quality. R21HS029959-01. *Amount:* \$137,434.

- 2019–2023 *Tailored clinical decision support formats designed to improve palliative care for cancer and chronically ill patients: A pre-clinical test*
Principal Investigators (MPIs): Dunn Lopez, K., Keenan G., & Yao, Y.; *Role:* MPI (15% over 3 years). On this team, I lead the recruitment and enrollment of a diverse sample of a national sample of acute care nurses as well as collaborate on the interpretation of analytic findings.; *Funding:* National Institutes of Health, National Institute of Nursing Research, R01 1R01NR018416-01; *Amount:* \$1,684,505
- 2018–2024 *MyPHA: Automatically generating personalized accounts of in-patient hospitalizations*
Principal Investigator: Di Eugenio B.; *Role:* Co-Investigator (5% over 4 years), As the lead nursing investigator on this team, my role is to: 1) lead the identification of nursing care terms (NANDA-I, NIC and NOC) from real world nursing handoffs into our prototype decision aid for post-hospitalization heart failure self-care, 2) collaborate on the analysis and transformation of qualitative patient interview data into the prototype decision aid and 3) to mentor and supervise the nursing informatics PhD student research assistant.; *Funding:* National Institutes of Health, National Cancer Institute, R01 CA225446; *Amount:* \$1,143,982
- 2011–2015 *Describing, contrasting, and visualizing end of life care in the 21st century*
Principal Investigators (MPIs): Keenan, G., Wilkie, D., & Yao, Y.; *Role:* Co-Investigator (10-25%), On this team, I led the second of two study aims focusing on the 1) transformation of findings from the data mining aim into clinical decision support prototypes and 2) user center design and testing of the prototype with a sample of practicing nurses.; *Funding:* National Institutes of Health, National Institute of Nursing Research, R01 NR012949; *Amount:* \$1,976,816
- 2009–2011 *Reducing disparities in underserved populations.*
Principal Investigator: Dancy, B.; *Role:* Post-Doctoral Fellow (\$90,457); On this grant I was funded as a post-doctoral fellow examining the role of technology on racial disparities. *Funding:* National Institutes of Health, National Institute of Nursing Research, T32 NR007964; *Amount:* \$544,744 (Total)

Extramural Research Grants, Pending

- 2024-2026 *Creating AI-Enabled All Health Team Data Fabric.*
Principal Investigators (MPIs): Boyd, Craven, Dunn Lopez K., Advanced Research Projects Agency for Health ARPA-H

Research and Clinical Presentations

Key:

*= data based

bold = my authorship

underlined = senior author;

~ = mentored student, post-doctoral fellow, or junior faculty as author

International

1. **Dunn Lopez, K. (2025)** Developing a Multi-User Transformative Electronic Health Record Data Sets to Reflect Nurses' Contributions to Hospitalized Patients' Outcomes
2. Wagner, C., **Dunn Lopez, K.**, Moorhead, S., Raemaekers, F., Schram, N., Swanson, E., Abe, N. (2025). Collaborating with SNOMED-CT to incorporate and updates NANDA-I Diagnosis, NIC Interventions and NOC Outcomes: Addressing International Nursing Documentation Needs.
3. **Dunn Lopez, K. (2024).** *Importance of standardized nursing data to understand nurses' value to patient outcomes.* First National Congress of Indonesian Nursing Informatics, Yogyakarta, Indonesia, Virtual. [invited]
4. **Dunn Lopez, K. (2023).** *Knowledge of production and electronic systems.* Federal University of São Paulo- UNIFESP Paulista School of Nursing, Virtual. [invited]
5. **Dunn Lopez, K.**, Englebright, J., Monsen, K., Kennedy, K., Bickford, C., & Carroll, W. (2023). *Charting a path forward for standardized nursing terminologies for improved person-centered care and nursing knowledge.* International Council of Nurses (ICN) Congress, Montreal, Canada. [poster]
6. ~da Costa Ferreira Oberfrank, N., Takao Lopes, C., **Dunn Lopez, K.**, & Sanson, G. (2023). *Mapping and validating nursing-sensitive outcomes and interventions towards nursing diagnosis related to heart failure self-management: A study protocol.* ACENDIO (The Association for Common European Nursing Diagnosis, Interventions and Outcomes) Conference, Rome, Italy. [poster]
 - Derik Hoy Poster for Best Poster
7. Staub, M., Harkonen, M., Christensen, B., Die Maura, S., Rossi, L., & **Dunn Lopez, K. (2023).** *Babel nursing languages? Interoperability: how to harmonize implementation, research and education?* ACENDIO (The Association for Common European Nursing Diagnosis, Interventions and Outcomes) Conference, Rome, Italy. [invited panelist]
8. ***Dunn Lopez, K.**, Chae, S., Litwiller, D., Wagner, C., Moorhead, S., & Swanson, E. (2023). *Searching for nurse generated interventions from medical-surgical nurses' documentation of care provided to patients with covid-19 in large vendor's electronic health record's flowsheets.* ACENDIO (The Association for Common European Nursing Diagnosis, Interventions and Outcomes) Conference, Rome, Italy. [oral presentation]
9. ***Dunn Lopez, K.**, Gusen, N., D'Agostino, F. (2023). *Searching for evidence of nurses' caring interventions I the electronic health record.* ACENDIO (The Association for Common European Nursing Diagnosis, Interventions and Outcomes) Conference, Rome, Italy. [oral presentation]
10. ***Dunn Lopez, K.**, da Costa Ferreira Oberfrank, N., Aggarwal, S., Vatani, H., Landes, P., Davis, A., Lindstrom, A., Nowak, M., Boyd, A. D., Martyn-Nemeth, P., Wagner, C., Fraczkowski, D., & Di Eugenio, B. (2023). *Using NANDA-I nursing classifications to compare and harmonize disparate sources of care: handoff transcripts to locally derived electronic health record documentation.* NANDA-I Conference, Boston, Massachusetts. [oral presentation]

11. Ferreira, R. C., **Dunn Lopez, K.**, Moorhead, S., Correia, M. D. L., Botelho M. T. L., Costa, P. C. P., Ribeiro, E., Carvalho, L. A. C., Montanari, F. L., & Duran, E. C. M. (2023). *Content analysis of the Nursing Diagnosis Fatigue (00093) in immediate postpartum women through a Focus Group methodology*. NANDA-I Conference, Boston, Massachusetts. [oral presentation]
12. Ferreira, R. C., **Dunn Lopez, K.**, Moorhead, S., Correia, M. D. L., Botelho M. T. L., Costa, P. C. P., Ribeiro, E., Carvalho, L. A. C., Montanari, F. L., & Duran, E. C. M. (2023). *Scoping review to propose a new nursing diagnosis: Multiple trauma injury syndrome*. NANDA-I Conference, Boston, Massachusetts. [oral presentation]
13. **Dunn Lopez, K.** (2021). *Developing decision support for nurses: Putting documentation data to good use*. EHiN 2021, Norwegian Nurses Association, Oslo, Norway. [invited]
14. ***Dunn Lopez, K.**, Swanson, E. Chae, S., Litwiller, D., Moorhead, S., Wagner, C., & Abe, N. (2021). *Unearthing nursing documentation within electronic health record data to determine the impact of nursing care for hospitalized patients with COVID-19: Work in Progress*. Health Information Management System and Society. Global Health Conference, Nursing Informatics Symposium, Las a Vegas, Nevada. [poster]
15. **Dunn Lopez, K.**, Cho, H., Dos Santos, F. D., Macieira, T. G. R., Mandola, O., Bjarnadottir, R., Wilkie, D., & Keenan, G. (2021). *Methods to conduct a national remotely administered randomized trial of simulation -based NANDA-I, NIC and NOC clinical decision support system*. Virtual ACENDIO (The Association for Common European Nursing Diagnoses, Interventions and Outcomes) Conference Online, [peer reviewed, conference podium]
16. ***Dunn Lopez, K.**, Soto, E., Stifter, J., Kennedy, M., Johnson, A., & Keenan, G. (2020). *Differentiating decision support needs of novice and expert nurse*. Society for Medical Decision Making, Berlin, Germany. (not presented due to COVID-19) [peer reviewed, conference podium]
17. **Dunn Lopez, K.** (2019). *Unlock the potential- Six novel ways to use nursing data in your research*. ACENDIO (The Association for Common European Nursing Diagnoses, Interventions and Outcomes) Conference, Falun, Sweden. [keynote, invited]
18. Acharya, S., Di Eugenio, B., Boyd, A. D., Cameron, R., **Dunn Lopez, K.**, Martyn-Nemeth, P., Chattopadhyay, D., Habibi, P., Dickens, C., Vatani, H., & Ardati, A. (2019). *A quantitative analysis of patients' narratives of heart failure*. The 20th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2019), Stockholm, Sweden. [published conference paper]
19. Acharya, S., Di Eugenio, B., Boyd, A. D., Cameron, R., **Dunn Lopez, K.**, Martyn-Nemeth, P., Chattopadhyay, D., Habibi, P., Dickens, C., Vatani, H., & Ardati, A. (2019). *Promoting patient engagement through personalized hospital-stay summaries*. Institute of Electrical and Electronic Engineers (IEEE) International Conference on Biomedical and Health Informatics, Chicago, Illinois. [poster]
20. *Habibi, P., Acharya, S., Di Eugenio, B., Cameron, R., Boyd, A. D., **Dunn Lopez, K.**, Martyn-Nemeth, P., Dickens, C., Ardati, A., & Chattopadhyay, D. (2019). *Designing self-care technologies for HF patients: A conceptual model*. Workshop on Interactive Systems in Healthcare, Glasgow, Scotland. [poster]

21. *Acharya, S., Boyd A. D., Cameron, R., **Dunn Lopez, K.**, Martyn-Nemeth, P., Dickens, C., Ardati, A., & Di Eugenio, B. (2019). *Incorporating Personalization Features in a Hospital-Stay Summary Generation System*. Proceedings of the 52nd Hawaii International Conference on System Sciences, Maui, Hawaii. [peer reviewed, conference podium]
22. **Dunn Lopez, K.** (2018). *Innovations in health professionals' education- applying team-based learning methods using communication and information technologies*. The Third Asian Congress in Nursing Education, Yogyakarta, Indonesia. [keynote, invited]
23. **Dunn Lopez, K.** (2016). *Entering the worlds of big data and clinical decision support using standardized nursing terminologies*. Bringing NANDA-I, NOC, NIC into Action: Research Education and Clinical Practice Conference, Yogyakarta, Indonesia. [keynote, invited]
24. ***Dunn Lopez, K.**, & Abraham, J. (2016). *Benefits, consequences, and opportunities for redesign of communication technologies for nurse-physician communication*. The International Symposium on Human Factors and Ergonomics in Health Care, New Orleans, Louisiana. [poster]
25. *Acharya, S., Di Eugenio B., Boyd A. D., **Dunn Lopez, K.**, Cameron R., & Keenan G. (2016). *Generating summaries of hospitalizations: A new metric to assess the complexity of medical terms and their definitions*. Proceedings of the 9th International Natural Language Generation (INLG 2016), Edinburgh, Scotland. [peer reviewed, conference podium]
26. *Acharya, S., Di Eugenio B., Boyd A. D., & **Dunn Lopez K.** (2016). *Towards generating comprehensible hospital-stay summaries for patients*. The International Conference on Healthcare Informatics (ICHI) Doctoral Consortium, IEEE (Institute of Electrical and Electronics Engineers), Chicago, Illinois. [peer reviewed, conference podium]
27. *Roussi R., Sousa, V., **Dunn Lopez, K.**, Balasubramanian A., Keenan G. M., Burton M., Bahroos N., Di Eugenio B., & Boyd A. D. (2015). *Are we talking about the same patient?* The Medinfo 2015 Conference, Sao Paulo, Brazil. [poster]
28. **Dunn Lopez, K.**, Stifter, J., Febretti, A., Sousa, V., Johnson, A., Wilkie, D. J., & Keenan, G. M. (2015). *Formative and summative testing of nursing clinical decision support prototypes*. The 10th Biennial Conference of the Association for Common European Nursing Diagnoses, Interventions and Outcomes, Ehealth and Nursing, Knowledge for Patient Care, Bern, Switzerland. [peer reviewed, conference podium]
29. *Febretti, A., Sousa V., **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*. The IEEE (Institute of Electrical and Electronic Engineers) VIS 2014 Workshop on Electronic Health Record Data Visualization (EHRVis), Paris, France. [presented, published conference paper]
30. *Febretti, A., **Dunn Lopez, K.**, Stifter, J., Johnson, A., Keenan, G., & Wilkie, D. J. (2014). *Evaluating a clinical decision support interface for end-of-life nurse care*. Association for Computing Machinery, Special Interest Group on Computer-Human Interaction, Conference on Human Factors in Computing Systems, Toronto, Ontario. doi: 10.1145/2559206.2581170 [presented, published conference paper]

- Ranked as #1 publication in the Field of Human Computer Interaction

31. ***Dunn Lopez, K.**, Chen J. L., Such, W., & Morrow, D. (2014). *Impact of change from hybrid to meaningful use EHR system on clinical workload, workflow and opportunity for errors*. The International Symposium on Human Factors and Ergonomics in Health Care: Leading the Way, Chicago, Illinois. [peer reviewed, conference podium]
32. ***Dunn Lopez, K.**, Chen, J. L., Schuch, W., & Morrow, D. (2013). *Effects of EHR system change on nurse and physician perceived workload and EHR usability in urgent/convenient care clinics*. The 2013 International Annual Meeting of the Human Factors and Ergonomics Society, San Diego, California. [peer reviewed, conference podium]
33. ***Dunn Lopez, K.**, Chieh-Li, C., Ramsey, R., Petry, J., Schuh, W., & Morrow, D. (2012). *Effects of an EHR system in an urgent/convenient care clinic: Implications for redesign*. The International Symposium on Human Factors and Ergonomics in Health Care, Baltimore, Maryland. [poster]
34. ***Dunn Lopez, K.** (2010). *Implications of within profession differences in nurse-physician work relationships on efficiency and care coordination*. The 16th Qualitative Health Research Conference, Vancouver, British Columbia. [peer reviewed, conference podium]

National

35. da Costa Ferreira Oberfrank N, Liu W, Dunn-Lopez K. Development and Content Validation of the Heart Failure Symptom Management Motivation Questionnaire. *Circulation*. 2024;150(Suppl_1):A4137716-A. doi: doi:10.1161/circ.150.suppl_1.4137716.
36. Karacan, B., Boyd, A., **Dunn Lopez, K.**, Martyn-Nemeth, P., Fraczkowski, D., Vatani, H., Dickens, C. & Eugenio, B. (2023). *Probing the EHR for Standardized Nursing Data*. IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE). [peer reviewed, conference paper]
37. Bjarnadottir, R. I., Walters-Threat, L., Reimer, A., Austin, R. R., Dardis, M., Hull, S., **Dunn Lopez, K.**, Van Dyke, E., Hoeksema, L., & Cato, K. (2023). *Development and application of social determinants of health data*. American Medical Informatics Association Annual Symposia, New Orleans, Louisiana. [workshop]
38. ***Dunn Lopez, K.**, Yao, Y., Bjarnadottir, R., Macieira, T. G. R., Dos Santos, F. C., Madandola, O. O., Cho, H., Priola, K., Wolf, J., Wilkie, D. J., & Keenan, G. M. (2023). *Reducing burden, improving documentation efficiency and suggestion adoption by tailoring decision support format to nurses' graph literacy: A National web-based RCT*. American Medical Informatics Association Annual Symposia, New Orleans, Louisiana. [peer reviewed, conference podium]
39. ***da Costa Ferreira Oberfrank, N.**, Watkinson, E., Buck, H., & **Dunn Lopez, K.** (2023). *Tailoring patient-centered heart failure symptom management education: A vignette study*. 19th Annual Meeting of the American Association of Heart Failure Nurses (AAHFN), Boston, Massachusetts. [poster]
40. ***Dunn Lopez, K.**, da Costa Ferreira Oberfrank, N., Aggarwal, S., Vatani, H., Landes, P., Davis, A., Lindstrom, A., Nowak, M., Boyd, A. D., Martyn-Nemeth, P., Wagner, C., Fraczkowski, D., & Di Eugenio, B. (2023). *Usefulness of nursing handoffs and locally derived nursing documentation for research: A pilot study*. American Medical Informatics Association, Clinical Informatics Conference, Chicago, Illinois. [oral presentation]

41. *Fraczkowski, D., **Dunn Lopez, K.**, Martyn-Nemeth, P., Dickens, C., Di Eugenio, B., Joson, Z., Karacan, B., Boyd, A. D. (2023). *Decoding the data: Transforming vendor derived nursing care plans for research use in a leading commercial EHR*. American Medical Informatics Association, Clinical Informatics Conference, Chicago, Illinois. [oral presentation]
42. **Dunn Lopez, K.** (2022). *Updates on Nursing Interventions Classification (NIC) and Nursing Outcomes Classification*. Friends of the National Library of Medicine Virtual Workshop. [invited]
43. **Dunn Lopez, K.** (2022). *Use of Nursing Interventions Classification (NIC) and Nursing Outcomes Classification to advance nursing knowledge*. Friends of the National Library of Medicine Virtual Workshop. [invited]
44. **Dunn Lopez, K.** (2022). *Use of Nursing Interventions Classification (NIC) and Nursing Outcomes Classification to promote health equity*. Friends of the National Library of Medicine Virtual Workshop. [invited]
45. *Cho, H., Keenan, G., Madandola, O., Fabiana, D. S., Tamara, M., Bjarnadottir, R., Priola, K., & **Dunn Lopez, K.** (2021). *Usability of Clinical Decision Support System for Nursing Care Planning in Palliative Care: Heuristic Evaluation*. American Medical Informatics Association 2021 Annual Symposium, San Diego, California. [poster].
46. *Cho, H., Keenan, G. M., & **Dunn Lopez, K.** (2021). *Empirical Heuristic Assessment of Digital Health Technology: Pre-Implementation of Nursing Clinical Decision Support*. Academy Health Annual Research Meeting, Virtual Event. [poster]
47. **Dunn Lopez, K.** (2021). *Innovative preclinical testing methods for building useful and generalizable nursing clinical decision support systems*. The Rita Kobb Nursing and Health Informatics National Symposium, Gainesville, Florida. [invited]
48. Zakkar, A., Vatani, H., Di Eugenio, B., Dickens, C., Martyn-Nemeth, P., **Dunn Lopez, K.**, Ardati, A. K., & Boyd, A. D. (2021). *Evolution of language differences between physicians and nurses*. American Medical Informatics Association 2021 Virtual Informatics Summit. [poster]
49. *Khatib, L., Vatani, H., Di Eugenio, B., Dickens, C., Martyn-Nemeth, P., **Dunn Lopez, K.**, Ardati, A. K., & Boyd, A. D. (2021). *An In-depth comparison between nurse and physician health terminology from a nonprofessional perspective*. American Medical Informatics Association 2021 Virtual Informatics Summit. [poster]
50. Dos Santos, F. C., Macieira, T. G. R., Yao, Y., Cho, H., Madandola, O. O., Ragnhildur, B., Wilkie, D. J., **Dunn Lopez, K.**, & Keenan, G. M. (2021). *Analysis of EHR-driven standardized nursing data to explore psychospiritual care for hospitalized patients*. American Medical Informatics Association 2021 Virtual Informatics Summit. [poster]
51. Madandola, O. O., Yao, Y., Cho, H., **Dunn Lopez, K.**, Dos Santos, F. C., Macieira, T. G. R., Wilkie, D. J., Keenan, G. M., & Bjarnadottir, R. (2020). *Characterizing fall-related nursing care using standardized electronic nursing data*. American Medical Informatics Association 2020 Virtual Annual Symposium. [poster]
52. Krupp, A., Greiner, J., & **Dunn Lopez, K.** (2020). *Mapping guideline recommendations to electronic health records: A first step in developing clinical decision support about ICU patient*

mobility. American Medical Informatics Association 2020 Annual Symposium, Chicago, Illinois. [poster]

53. Cho, H., **Dunn Lopez, K.**, Yao, Y., Bjarnadottir, R., Bian, J., Wilkie, D., & Keenan, G. (2020). *Assessment of clinical decision support (CDS) formats for supporting nurses' palliative care planning decisions*. American Medical Informatics Association 2020 Virtual Annual Symposium, Chicago, Illinois. [poster]
 - Finalist Distinguished Poster Competition
54. Alexander, G., Topaz, M., Hull, S. **Dunn Lopez, K.**, Cato, K., Monsen, K., & Wang, M. (2020). *Nursing informatics in times of COVID 19: Achievements, challenges, and new ideas*. American Medical Informatics Association, COVID Webinar Series. [invited]
55. ***Dunn Lopez, K.**, Martinez Soto, E., Stifter, J., Kennedy, M., Johnson, A., & Keenan, G. M. (2020). *Differentiating decision support needs of novice and expert nurses*. American Medical Informatics Association Virtual Symposium, Chicago, Illinois. [peer reviewed, conference podium]
56. **Dunn Lopez, K.** (2019). *Engaging patients in post hospitalization self-care: Methods for a novel use for standardized data in nursing plans of care*. The 29th Summer Institute in Nursing Informatics: Healthcare Informatics: A Catalyst for Value-Driven Care Transitions, Baltimore, Maryland. [invited]
57. ~*Vatani, H., Acharya, S., Boyd, A. D., Di Eugenio, B., Cameron, R., Martyn-Nemeth, P., Chattopadhyay, D., Habibi, P., Dickens, C., Ardati, A., & **Dunn Lopez, K.** (2019). *Patients' perceptions of heart failure through the lens of standardized nursing terminologies*. American Medical Informatics Association, Washington, DC. [peer reviewed, conference podium]
58. **Dunn Lopez, K.**, Kochendorfer, K., Azhar, K., Khamo, N. Shah, S. D., Papautsky, E. L., Mitchell, C. G., Straube, D. D., Gruss, V., Burton, S., Sharma, H., Vatani, H., & Valenta, A. (2019). *Flipping the Interprofessional education classroom: a novel method for teaching about HIT in collaborative practice*. American Medical Informatics Association, Informatics Educators Forum, St. Louis, Missouri. [peer reviewed, conference podium]
59. ~*Girgis, M., Donevant, S. B., Habibi, P., Chattopadhyay, D., Fraczkowski, D., & **Dunn Lopez, K.** (2019). *Functions and readability of Mhealth for heart failure self-care*. American Medical Informatics Association Annual Symposium, Washington, DC. [poster]
 - High School Scholars Competition
60. *Patel, P., Vatani, H., **Dunn Lopez, K.**, & Boyd, A. D. (2019). *NLM-SNOMED-CT Nursing lists: Little overlap with physician used terms*. American Medical Informatics Association Informatics Summit, San Francisco, California. [poster]
61. Crosbee, D., **Dunn Lopez, K.**, & Kassler, W. (2018). *Helping clinicians navigate health app choices*. Panelist American Heart Association Scientific Sessions, Chicago, Illinois. [invited]
62. *Acharya, S., Boyd, A. D., **Dunn Lopez, K.**, Cameron, R., & Di Eugenio, B. (2018). *Determining medical term complexity: Features identification and comparison of classification techniques*. American Medical Informatics Association Informatics Summit, Scottsdale, Arizona. [poster]

63. 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*. The American Medical Informatics Association Annual Symposium, Washington, DC. [peer reviewed, conference podium]
64. *Roussi K., **Dunn Lopez K.**, Di Eugenio B., & Boyd, A. D. (2017). *Physician negation of nursing concepts in the electronic health record*. The American Medical Informatics Association Annual Meeting, Washington, DC. [poster]
65. * Acharya S., Di Eugenio, B., Boyd A. D., Cameron, R., **Lopez, K. D.**, Martyn-Nemeth, P., Dickens, C., & Ardati, A. (2017). *Personalizing hospital-stay summaries for patients*. The ACM TAPIA Conference, Atlanta, Georgia. [poster]
66. ~ *Alvarez, M., & **Dunn Lopez, K.** (2016). *Comparing hospital nurses' and physicians' attitudes about interdisciplinary communication openness and safety*. The Annual Biomedical Research Conference for Minority Students, Tampa, Florida. [poster]
67. *~ Melvin, A., **Dunn Lopez, K.**, Hopcia, K., & Muzaffar, S. (2016). *Diagnosing latent tuberculosis infection*. The American Association of Occupational Health Nurses 2016 National Conference, Jacksonville, Florida. [poster]
68. **Dunn Lopez, K.** (2016). *An integrative review of clinical decision support for (acute care registered) nurses: Setting an agenda that advances science and practice*. As part of: Designing Next Generation of Clinical Decision Support for Nursing from Hospital to Homecare: Pre-Symposium Tutorial, American Medical Informatics Association Annual Symposium, Chicago, Illinois. [invited]
69. Gephart, S., M., Abraham, J., Raszewski, R., Price, L., & **Dunn Lopez, K.** (2015). *An integrative review of nursing clinical decision support systems: Examining the impact on process, usability and patient outcomes*. The American Medical Informatics Association Symposium, San Francisco, California. [peer reviewed, conference podium]
70. Di Eugenio, B., Boyd, A. D., Lugaresi, C., Balasubramanian, A., Keenan, G. M., Burton, M., Rezende Macieira, T. G., **Dunn Lopez, K.**, Friedman, C., Li, J., & Lussier, Y. (2014). *PatientNarr: Towards generating patient-centric summaries of hospital stays*. The Eighth International Natural Language Generation Conference, Philadelphia, Pennsylvania. [presented, published conference paper]
71. ***Dunn Lopez, K.**, Febretti, A., Yao, Y., Stifter, J., Johnson, A., Wilkie D. J., & Keenan, G. (2013). *Clinical decision support alert forms: Nurse preferences and relationships with nurse characteristics*. The American Medical Informatics Association Annual Symposium, Washington, DC. [peer reviewed, conference podium]
72. *~Febretti, A., **Dunn Lopez, K.**, Stifter, J., Johnson, A., Keenan, G., & Wilkie, D. J. (2013). *A component-based evaluation protocol for clinical decision support interfaces*. The 15th International Conference on Human-Computer Interaction, Las Vegas, Nevada. In A. Marcus (Ed.), Design, user experience, and usability. Design philosophy, methods, and tools lecture notes in computer science, (pp. 232-241). Springer. https://doi.org/10.1007/978-3-642-39229-0_26 [presented, published conference paper]

73. ***Dunn Lopez, K.**, Arora, V., Chen, Y., Johnson, J., Boyd, A. D., Keenan, G., & Wilkie, D. (2012). *Electronic tools for cognitive support during resident handoffs: State of the practice and future directions*. The American Medical Informatics Association Annual Symposium, Chicago, Illinois. [peer reviewed, conference podium]
74. ***Dunn Lopez, K.** (2009). *An elephant in the room: The role of race in nurse-physician relationships*. Academy Health Annual Research Meeting, Chicago, Illinois. [poster]
75. ***Dunn Lopez, K.**, & Whelan, C. (2009). *A qualitative study of hospitalists' and non-hospitalists' work relationships with staff nurses*. The Annual Meeting of Society of Hospital Medicine, Chicago, Illinois. [poster].
76. ***Dunn Lopez, K.** (2007). *A qualitative study of nurses' and physicians' perceptions of the nurse-physician work relationships*. The Academy Health Annual Research Meeting, Orlando, Florida. [poster]

State/Regional

77. Kuyoro, A., **Dunn Lopez, K.**, & Chae, S. (Accepted). From clinical notes to predictive models for acute myeloid leukemia readmissions: A pre-machine learning analysis. Poster presentation at the Midwestern Nursing Research Society's 49th Annual Research Conference, Indianapolis, IN.
78. ~Gusen, N.J., Ferreira, R.C., Duran E.C.M., & **Dunn Lopez, K.** (2025, March 26-29). Predictors of Spiritual Distress in Polytrauma Patients. [Accepted Poster discussion presentation]. MNRS Annual Research Conference, Indianapolis, IN, United States. [Distinguished Abstract].
79. Ferreira R.C., Ceretta H., **Dunn-Lopez K.**, Moorhead, S.A., Zuchatti, B.V., Duran E. C. M. (2024). *Decision Trees for Nursing Outcomes (NOCs) in Polytrauma Patients with the Nursing Diagnosis (NANDA-I) "Impaired Physical Mobility"* Midwestern Nursing Research Society (MNRS) Annual Research Conference. March, Minneapolis, MN, [Poster Presentation and Discussion]
80. Aggarwal, S., Perkhounkova, Y., Hein, M., Wolf, J., Yao, Y., Keenan, G.M., & **Dunn Lopez, K.** (2023). *Impact of covid-19 pandemic on nurse willingness to participate in research: A secondary analysis of study recruitment and health and human services data*. MNRS 47th Annual research Conference, Des Moines, Iowa. [conference presentation]
81. Krupp, A., Dunn, H., Potter, K., & **Dunn Lopez, K.** (2021). *Electronic health record-based phenotype for ICU mobility: developing an algorithm for classifying patient safety criteria*. MNRS Research Conference, Virtual. [peer reviewed, conference podium]
82. ***Dunn Lopez, K.**, Chae, S., Girgis, M., Fraczkowski, D., Habibi, P., Chattopadhyay, D., & Donevant, S. B. (2020). *Improved readability and functions needed for Mhealth targeting patients with heart failure: An app store review*. Midwest Nursing Research Society's 44th Annual Research Conference, Schaumburg, Illinois. [peer reviewed, conference podium]
 - Distinguished Abstract
83. **Dunn Lopez, K.**, Boyd, A., Acharya, S., Lugaresi, C., Macieira, T., Sousa, V., Abinaya Balasubramanian, A., Roussi, K., Keenan, G. M., Lussier, Y., Li, J., Burton, M., & Di Eugenio. B. (2019). *Illustration of an innovative method to analyze electronic health record documentation data*. Midwest Nursing Research Society's 43rd Annual Research Conference, Kansas City, Missouri. [peer reviewed, conference podium]

84. ~*O'Rourke, J., **Dunn Lopez, K.**, Abraham, J., & Riesenberg, L. (2019). *Validation of the core nursing handoff components*. The Midwest Nursing Research Society's 43rd Annual Research Conference, Kansas City, Missouri. [peer reviewed, conference podium]
85. ~Matson, J., Corte C. & **Dunn Lopez, K.** (2019). *Determination of content validity index for a simulated patient to investigate sentinel events*. The Midwest Nursing Research Society's 43rd Annual Research Conference, Kansas City, Missouri. [poster]
 - Winner MNRS Student Poster Competition, University of Illinois at Chicago College of Nursing
86. **Dunn Lopez, K.**, & Sousa Friere, V. (2018). *Demonstrating usability of you E-health innovations: A systematic review of usability questionnaires*. The Midwest Nursing Research Society's 42nd Annual Research Conference, Cleveland, Ohio. [poster]
87. ~Frackowski, D., Matson, J., & **Dunn Lopez, K.** (2018). *Nurse workarounds to the required electronic health record work: An integrative review*. The Midwest Nursing Research Society's 42nd Annual Research Conference, Cleveland, Ohio. [poster]
88. ~*O'Rourke, J., Abraham, J., **Dunn Lopez, K.**, & Riesenberg, L. (2017). *Achieving consensus on core nursing handoff components: A national Delphi study*. The Midwest Nursing Research Society's 41st Annual Research Conference, Minneapolis, Minnesota. [peer reviewed, conference podium]
89. ~ Matson, J., & **Dunn Lopez, K.** (2016). *Moving to expert with situation awareness measurement: A systematic literature review*. The Midwest Nursing Research Society's 40th Annual Research Conference, Milwaukee, Wisconsin. [poster]
90. *~Martinez Soto, E., **Dunn Lopez, K.**, Kennedy, M., Stifter, J., Febretti, A., Johnson, A., Wilkie, D., & Keenan, G. (2014). *Differentiating between novice and expert nurses' clinical decision support need*. The Midwest Nursing Research Society's 38th Annual Research Conference, St. Louis, Missouri. [peer reviewed, conference podium,]
91. *Stifter, J., Yao, Y., Lodhi, M. K., **Dunn Lopez, K.**, Khokhar, A., Wilkie, D. J., & Keenan, G. (2014). *An innovative study to link patient outcomes and individual nurse continuity using practice-based evidence*. The Midwest Nursing Research Society's 38th Annual Research Conference, St. Louis, Missouri. [peer reviewed, conference podium]
92. **Dunn Lopez, K.** (2014). *How clinical decision support derived from electronic health record data can be used effectively to support evidence-based nursing practice*. Korean Hospital Nurses Association, Leadership Development Program, Chicago, Illinois. [invited]
93. **Dunn Lopez, K.**, Stifter, J., Febretti, A., Johnson, A., Wilkie, D. J., & Keenan, G. (2013). *Improving learnability and efficiency of evidence based information in clinical decision support*. The Midwest Nursing Research Society's 37th Annual Research Conference, Chicago, Illinois. [peer reviewed, conference podium]
94. *Keenan, G., Yao, Y., **Dunn Lopez, K.**, Stifter, J., & Wilkie, D. (2013). *Use of the EHR to monitor unit based practice patterns*. The Midwest Nursing Research Society's 37th Annual Research Conference, Chicago, Illinois. [peer reviewed, conference podium,]

95. *Yao, Y., Keenan, G., Stifter, J., **Dunn Lopez, K.**, Khokhar, A., Ansari, R., & Wilkie, D. (2013). *Practice-based evidence from an electronic health record (EHR): Insight for improving pain management at the end of life (EOL)*. The Midwest Nursing Research Society's 37th Annual Research Conference, Chicago, Illinois. [peer reviewed, conference podium]
96. *Cheema, U., Lodhi, M. K., Stifter, J., Yao, Y., **Dunn Lopez, K.**, Ansari, R., Ansari, R., Wilkie, D., & Keenan, G. (2013). *Nursing care of end-of-life patients facing death anxiety*. The Midwest Nursing Research Society's 37th Annual Research Conference, Chicago, Illinois. [peer reviewed, conference podium]
97. *Lodhi, M. K., Cheema, U., Stifter, J., Yao, Y., **Dunn Lopez, K.**, Keenan, G., & Khokhar, A. (2013). *State of nursing care patients with anticipatory grieving: Lessons learned from standardized nursing data*. The Midwest Nursing Research Society's 37th Annual Research Conference, Chicago, Illinois. [peer reviewed, conference podium]
98. McKinney, D., Tastan, S., Lynch, G., Stifter, J., Fahey, L., **Dunn Lopez, K.**, Yao, Y., Wilkie, D., & 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)*. The Midwest Nursing Research Society's 37th Annual Research Conference, Chicago, Illinois. [poster]
99. *Stifter, J., **Dunn Lopez, K.**, Febretti, A., Johnson, A., Wilkie, D., & Keenan, G. (2013). *Identifying nurse preferences for presentation of evidence based end of life (EOL) pain management information in clinical decision support systems*. The Midwest Nursing Research Society's 37th Annual Research Conference, Chicago, Illinois. [poster]
100. **Dunn Lopez, K.** (2012). *Benefits and unintended consequences of communication technology use between nurses and physicians*. Biomedical and Health Informatics Colloquium, UIC College of Medicine, Chicago, Illinois. [invited]
101. **Dunn Lopez, K.** (2011). *Ensuring electronic health records represent and support nursing*. Korean Hospital Nurses Association, Leadership Development Program, Chicago, Illinois. [invited]
102. ***Dunn Lopez, K.** (2008). *A mixed methods study of nurse-physician work relationships*. The Midwest Nursing Research Society's 32nd Annual Research Conference, Indianapolis, Indiana. [peer reviewed, conference podium]
103. ***Dunn Lopez, K.**, Kanak, M., & Gerling, G. (2005). *The application of a cognitive engineering work analysis to the issue of patient safety*. The Midwest Nursing Research Society's 29th Annual Research Conference, Cincinnati, Ohio. [peer reviewed, conference podium]
104. ***Dunn Lopez, K.** (2001). *A descriptive pilot survey of nurses' information utilization and needs for evidence-based practice implementation*. The Midwest Nursing Research Society's 25th Annual Research Conference, Cleveland, Ohio. [peer reviewed, conference podium]
105. ***Dunn Lopez, K.** (2001). *A descriptive pilot survey of nurses' information utilization and needs for evidence-based practice implementation*. The Midwest Nursing Research Society's 25th Annual Research Conference, Columbus, Ohio. [poster]

Local

106. *O'Rourke, J., **Dunn Lopez, K.**, Hagan, K., Lindsey, K., & Abraham, J. (2019). *Validation of nurse-nurse handoff tool using content analysis of transcribed handoffs*. Ruth K. Palmer Research Symposium, Loyola University School of Nursing, Chicago, Illinois. [poster]
107. ~Alvarez, M., & **Dunn Lopez, K.** (2016). *Comparing hospital nurses' and physicians' attitudes about interdisciplinary communication openness and safety*. Bridges to Baccalaureate Program Summer Research Colloquium, University of Illinois at Chicago, Chicago, Illinois. [poster]
108. ***Dunn Lopez, K.** (2016). *RN and MD communication technologies on medical units: Benefits, consequences and usability*. Resident and Nursing Research Day, Presence St. Joseph's Hospital, Chicago, Illinois. [poster]
- First Place Award
109. *Roy, B., Kausnik, V., **Dunn Lopez, K.**, Schuh, W., & Morrow, D. (2015). *Usability and effects of EHR system change on perceived workload*. Undergraduate Research Symposium, University of Illinois at Urbana-Champaign, Urbana-Champaign, Illinois [poster]
110. *Keenan G. M., Stifter J., Febretti A., Lodhi, M., **Dunn Lopez, K.**, Yao, Y., Khokhar, A., Johnson, A., Ansari, R., & Wilkie, D. J. (2014). *Well tested electronic care planning system produces powerful evidence for nursing care decision*. 2nd Annual Advocate Nursing Research Symposium, Chicago, Illinois. [poster]
111. *Stifter, J., Yao, Y., Lodhi, M. K., **Dunn Lopez, K.**, Khokhar, A., Wilkie, D. J., & Keenan, G. (2014). *An innovative study to link patient outcomes and individual nurse continuity using practice-based evidence*. 2nd Annual Advocate Nursing Research Symposium, Chicago, Illinois. [poster]

SERVICE

Editorial and Peer Review Service

Editorial Board

2018–present Journal of the American Medical Informatics Association- Open

Guest Editor

2023 Journal of the American Medical Informatics Association:
Standardized Nursing Terminologies Come of Age: Advancing Quality of Care,
Population Health, and Health Equity Across the Care Continuum

Grant Reviews

2023	National Institutes of Health, Clinical Informatics and Digital Health (CIDH)
2022	University of Iowa, College of Nursing, Pilot Grant Program
2021	National Institutes of Health, Small Business Innovation Research
2020	University of Iowa, College of Nursing, Pilot Grant Program
2018	Midwest Nursing Research Society, Grants Program
2015	National Science Foundation, Smart and Connected Health
2012	National Institutes of Health, Small Business Innovation Research
2011	National Institutes of Health, Small Business Innovation Research

Manuscript Reviews

2023	International Journal of Medical Informatics
2023	Journal of General Internal Medicine
2020–2022	Applied Clinical Informatics
2020	British Medical Journal Open
2017	Journal of the American Medical Informatics Association-Open
2017	BMC Medical Informatics and Decision Making
2015–2016	Institute of Electrical and Electronics Engineers (IEEE) Transactions on Learning Technologies
2014–2015	Journal of the American Psychiatric Nurses Association
2013–2016	Journal of Interprofessional Care
2011	Journal of Hospital Medicine
2011–2023	Journal of the American Medical Informatics Association

Scientific Program Committee

2024	Scientific Chair- American Medical Informatics Association, Clinical Informatics Conference
2023	American Medical Informatics Association, Clinical Informatics Conference
2021	American Medical Informatics Association, Annual National Symposium

Conference Abstract Reviews

2020	Society for Medical Decision Making
2014	Human Factors and Ergonomic Society, International Annual Meeting
2014	Midwest Nursing Research Society, Annual Research Conference
2013–2015	Human Factors and Ergonomic Society, International Health Care Symposium
2012–2022	American Medical Informatics Association, Annual National Symposium
2012–2014	Council for the Advancement of Nursing Science, State of the Science Congress

Professional ServiceMembership, participation, and leadership*Association for Common European Nursing Diagnoses, Interventions and Outcomes*

2023–2025	Member, Board of Director (elected 2-year term)
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Friends of the National Library of Medicine

2022	Planning Committee Member: Honoring the Legacy of Virginia Saba Through Charting a Path Forward for Standardized Nursing Terminologies in Practice and Research (invited)
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American Medical Informatics Association

2023	Chair, Leadership Development Committee (elected 2-year term)
2023–2025	Past Chair, Nursing Informatics Workgroup (elected 2-year term)
2022	LEAD Fund Advisory Committee (invited)

2021	Participant, 25 by 5 Symposia to Reduce documentation on U.S. Clinicians (volunteer)
2020–2021	Nominating Committee Chair, Nursing Informatics Work Group (invited)
2020–2022	Awards Committee Chair, Nursing Informatics Work Group (invited)
2019–2022	Chair, Nursing Informatics Workgroup (elected 3-year term)
2011–present	Member

Alliance for Nursing Informatics

2005–2027	Appointed Co-Chair representing American Medical Informatics Association Nursing Informatics
2020–2022	Governing Director and Representative for, American Medical Informatics Association Nursing Informatics Work Group (invited)
2020–present	Representative, Center for Nursing Classification and Clinical Effectiveness
2018–2020	Representative, Xcertia (invited)
2016–2019	Governing Director and Representative for Midwest Nursing Research Society (invited)

Healthcare Information and Management Systems Society (HIMSS)

2020–2022	Work Group Member, Health App Guidelines Initiative (invited)
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Xcertia

2018–2020	Board Member, Xcertia https://www.xcertia.org/ (invited)
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Midwest Nursing Research Society

2016–2019	Chair, Health Systems, Policy, & Informatics Research Interest Group (elected 3-year term)
2009–present	Member

Human Factors and Ergonomic Society

2013–2016	Program Committee Member, Symposium on Health Care in Human Factors Planner: Health Information Technology Track (volunteer)
2012–2017	Member

American Organization for Nursing Leadership (AONL) Foundation for Nursing Leadership Research and Education

2023	Consultant, Technology to Support Nurse Leaders Think Tank (invited)
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Comments to Federal Policy Drafts

2021, February	<i>Data Collection Program for Health Informatics Specialist</i> To the: U.S. Department of Labor, O*NET Task Force Member, American Medical Informatics Association
2019, January	<i>Strategy on Reducing Regulatory and Administrative Burden Relating to the Use of Health IT and EHRs</i> To the: Office of the National Coordinator for Health Information Technology Task Force Member, Represented the Alliance for Nursing Informatics

2018, February	<i>Care Data for Interoperability</i> To the: Office of the National Coordinator for Health Information Technology Task Force Member, Represented the Alliance for Nursing Informatics and The American Nurses Association
2018, February	<i>Clinical and Patient Decision Support Software</i> To the: Federal Drug Administration Invited Policy Task Force Member, Represented the American Medical Informatics Association
2018, February	<i>Trusted Exchange Framework and Common Agreement</i> To the: Office of the National Coordinator for Health Information Technology Task Force Member, Represented the Alliance for Nursing Informatics and The American Nurses Association
2017, December	<i>Proposed Changes to the 2018 Leapfrog Hospital Survey</i> To the: Leap Frog Group Task Force Member, Represented the Alliance for Nursing Informatics
2017, November	<i>Interoperability Standards Advisory</i> To the: Office of the National Coordinator for Health Information Technology Task Force Member, Represented the Alliance for Nursing Informatics
2017, November	<i>CMS Innovation Center New Direction</i> To the: Center for Medicare and Medicaid Services Task Force Member, Represented the Alliance for Nursing Informatics and The American Nurses Association
2017, January	<i>National Library of Medicine Strategic Plan</i> To the: National Library of Medicine Co-Chair Task Force, Represented Midwest Nursing Research Society and Eastern Research Nursing Society
2011, October	<i>Testing and Validation of the Usability of Electronic Health Records</i> To the: National Institute of Standards and Technology Task Force Member, Represented the American Medical Informatics Association, Public Policy Working Group

University Service

The University of Iowa

2021–present	Iowa Health Data Resource- Intercollegiate Advisory and Implementation, Team Member (invited)
2022–present	Mentor, First Generation @Iowa Initiative (volunteer)

University of Illinois at Chicago

2019	Learning Management System Board, Comparative usability design evaluation, Consultant (volunteer)
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2019	Interprofessional Immersion Day, Facilitator (volunteer)
2016	Precision Medicine Initiative: Standardized Health Data and Patient Engagement, Work Group Member (volunteer)
2013–2019	Information Technology Governance Council-Research Committee, Member
2012–2019	Undergraduate Research Day, Faculty Judge (volunteer)

Collegiate Service

University of Iowa, College of Nursing

2023-present	Member, Search Committee, Associate Dean for Research (invited)
2022–present	Member, Search Committee, Mid-Career Tenure Track Faculty (invited)
2022–present	Lead, Bio-Nursing Informatics Consulting Team (volunteer)
2021	Member, Search Committee, Associate Dean for Marketing (invited)
2020–2021	Member, DNP Statistics Task Force (volunteer)
2020–present	Lead, Health Informatics and Technology, Scholarly Interest Group (volunteer)
2020–present	Member, Strategic Leadership Group (invited)
2020–present	Member, PhD Admissions and Progression Subcommittee (invited)
2019	Member, Search Committee, Associate Dean for Research (invited)
2019–present	Advisor, Research Advisory Group (invited)
2019–present	Member, Peer Group for Promotion and Tenure (invited)

University of Illinois at Chicago, College of Applied Health Science, Department of Biomedical and Health Information Science

2018–2019	Ad-Hoc Committee and Teaching Efficiency and Quality, Member (invited)
2018–2019	PhD Subcommittee for Advising and Admissions, Member (invited)
2018–2019	Curriculum Accreditation and Redesign Committee for the Master's in Biomedical Health and Information Sciences, Member (invited)

University of Illinois at Chicago, College of Nursing, Department of Health Systems Science

2015–2016	Promotion and Tenure Committee, Member (elected)
2012–2013	Master's Degree Admission Reviews, Member (volunteer)

University of Illinois at Chicago, College of Nursing

2014–2018	Information Technology Advisory Council, Department Representative (invited)
2013–2018	PhD Admissions Review Team, Member (invited)
2012	Baccalaureate Student Poster Session, Faculty Judge (volunteered)
2012	Baccalaureate Admissions Review Team, Member (invited)
2011–2012	Scholarship Committee, Member (elected)

TEACHING

Instructional Activities

Course Instruction

The University of Iowa

Fall 2023,2024	NURS 5016 Healthcare Infrastructure and Informatics, Primary Instructor,
Fall 2020, 2021	NURS 5009 Evaluating Evidence for Practice Primary Instructor, Semester Hours 3, Required Course, (n=25-26)
Fall 2019–2022	NURS 6828 Doctor of Nursing Practice Course Series, Course Faculty (n=1)

The University of Illinois at Chicago

Summer 2019	BHIS 534 Patient Safety and Health Information Technologies Primary Instructor, Semester Hours 3, Required Course, (n=32)
Spring 2019	BHIS 595 Health Informatics Grant Writing Seminar Primary Instructor, Semester Hours 2, Required Course (n=1) BHIS 593 Health Informatics Capstone Primary Instructor, Semester Hours 1, Required Course (n=2)
Fall 2018	BHIS 531 Health Information Technology in Collaborative Practice Team Taught, Primary Instructor, Semester Hours 3, Required Course, (n=2)
Summer 2018	BHIS 534 Health Information Technology and Patient Safety Team Taught, Course Director, Semester Hours 3, Required Course, (n=35)
Fall 2017	NURS 518 Quality, Safety and Health Information Technologies Team Taught, Course Director, Semester Hours 3, Required Course, (n=150)
Fall 2016	NURS 566 Developing Literature Reviews Team Taught, Semester Hours 2, Required Course, (n=14) NURS 518 Quality, Safety and Health Information Technologies Team Taught, Course Director, Semester Hours 3, Required Course, (n=148)
Spring 2016	NURS 518 Quality, Safety and Health Information Technologies Team Taught, Course Director, Semester Hours 3, Required Course, (n=92) NUPR 593 Advanced Research Practicum Primary Instructor, Semester Hours 3, Elective Course, (n=1)
Fall 2015	NURS 518 Quality, Safety and Health Information Technologies Team Taught, Course Director, Semester Hours 3, Required Course, (n=130)
Spring 2015	NURS 518 Quality, Safety and Health Information Technologies Team Taught, Course Director, Semester Hours 3, Required Course (n=50) NUPR 593 Advanced Research Practicum Primary Instructor, Semester Hours 3, Elective Course, (n=1)

Fall 2014	NURS 518 Quality, Safety and Health Information Technologies Team Taught, Course Director, Semester Hours 3, Required Course, (n=54) NUEL 596 Graduate Independent Study Primary Instructor, Semester Hours 3, Elective Course, (n=1)
Fall 2013	NURS 550 Evidence Based Practice Primary Instructor, Semester Hours 3, Required Course, (n=17) NUSP 596 Independent Study Primary Instructor, Semester Hours 2, Elective Course, (n=1)
Spring 2013	NURS 526 Nursing Inquiry I Primary Instructor, Semester Hours 2, Required Course, (n=19)
Fall 2012	NURS 526 Nursing Inquiry I Primary Instructor, Semester Hours 2, Required Course, (n=18)
Fall 2011	NURS 550 Evidence Based Practice Team Taught, Primary Instructor, Semester Hours 3, Required Course, (n=19)

Guest Lectures

The University of Iowa

Spring 2022, 2023	The role of theory in informatics research
Fall 2018	<i>If you Build It, Will They Come? Improving outcomes across the care spectrum through team science</i>

Other Universities/Colleges

Fall 2017,2018	<i>Writing the Results Section in Structured Reviews</i> Developing Literature Reviews The University of Illinois at Chicago, College of Nursing
Fall 2016	<i>Education and Research Interventions using Websites and Apps: If you Build It Will They Come?</i> Research Seminar The University of Illinois at Chicago, College of Nursing
Fall 2015	<i>Nursing Informatics 101: What is it and why should I care?</i> Concepts and Processes in Professional Nursing University of Illinois at Chicago, College of Nursing
Fall/Spring 2012/2013	<i>Human Factors Methods Applied to Communication Technology</i> Patient Safety Leadership Program University of Illinois at Chicago, College of Medicine
Spring 2012	<i>Benefits and Unintended Consequences of Communication Technology between Nurses and Physicians</i>

Biomedical and Health Informatics Colloquium
University of Illinois at Chicago

- Spring 2012 *Nursing Informatics at UIC*
Nursing Leadership
University of Illinois at Chicago, College of Nursing
- Spring 2011 *Human Factors in Interdisciplinary Communication Technologies*
Seminar in Human Factors in Healthcare
University of Illinois at Urbana-Champaign, College of Engineering
- Spring 2010 *Nurse Physician Communication in Hospitals*
Health Communication
University of Illinois at Chicago, College of Liberal Arts and Science

Course Development

- Summer 2023 Major course Revision to align with Association of the American College of
Nursing Essentials to align with Team Based Learning
- Summer 2022 Major Course Revision
- Fall 2019 Course Revision Consultation: Evaluating Evidence for Practice
Core Course: DNP program
- Fall 2019 Course Revision Consultation: Quality and Safety
Core Course: DNP program
- Fall 2016 Course Development Team Member: Data Driven Health Care Improvement
Core Course: DNP program
- Spring 2015 Course Development Team Member: Leadership, Policy, and Interprofessional
Collaboration: Effecting Change in Complex Health Systems
Core Course: DNP program
- Fall 2014 Course Development Team Member: Nursing Information Systems and
Technology: Supporting Care and Generating Evidence
Core Course: DNP program
- Spring 2014 Course Development Lead: Quality, Safety and Health Information
Technologies. Developed Innovative Online Course using Team-Based Learning
Core Course: DNP program
- Summer 2013 Major Course Change: Adapted Evidence Based Practice from on-line to
blended course. Developed new content for evidence-based nursing
administration practice unit.
Core Course: MSN program

Mentoring and Advisement

Mentoring

University of Iowa, College of Nursing, Internal Faculty Mentorship

- 2021–present Natany da Costa Ferreira Oberfrank, PhD, RN, Role: Primary Mentor
- 2020–present Sena Chae, PhD, RN, Role: Primary Mentor

2019–present Anna Krupp, PhD, RN, Role: Primary Mentor

External Junior Faculty

2023–present Elizabeth UMBERFIELD, PhD, RN, Mayo Clinic, Role Co-Mentor

2022–present Ginger Schroers, PhD, RNC-MNN, CNE, Loyola University, Role: Co-Mentor

Alliance for Nursing Informatics Emerging Leaders Program

2020–2021 Young Ji Lee, Role: Co-Mentor

Post-Doctoral Research Associates

2020–2021 Natany da Costa Ferreira Oberfrank, *Application of Nursing Outcome Classification to Heart Failure Self-Management*, Role: Primary Mentor

2015–2016 Vanessa E. Sousa, *Usability Testing of a Nursing Diagnosis Software (Funded by the Brazilian National Council for Scientific and Technological Development)*, Role: Primary Mentor

Visiting Scholars

2023 Raisa Camilo Ferreira, Role: Co-Mentor

2015 Bomi Huh, *Theory Driven Research*, Role: Mentor

2011–2012 Sevinc TASTAN, *Nursing Informatics*, Role: Co-Mentor

Advisement

Student Advisement

Since 2011 PhD, 5 students
DNP, 2 students
MSN, 3 students

PhD Preliminary Examination Committee

2020 Co-Mentor, Haleh Vatani
2019 Member, Daniel Fraczkowski
2019 Member, Catherine Schwartz
2017 Chair, Jeffrey Matson
2015 Chair, Eve Martinez Soto
2013 Member, Janet Stifter

MSN Project Committee Member

2013 Lisa Young, *Cost-Benefit Analysis of Nursing Documentation Systems and HANDS*
2012 Meghan Kennedy, *Examination of Novice and Expert Nurse Preferences for Clinical Decision Support Features*

2011 Jody Wendt, *The Inclusions of Appropriate Nursing Care Data in Health Information Exchanges*

DNP Project Committee Chair

2020–2022 Emily Dahle, *Integrating Technology for Sustained Prenatal Breastfeeding Education*

2016–2017 Ariani Pertiwi, *Translating Human Computer Interaction Evidence to Improve Sepsis Alert Systems*

2015 Amy Melvin, *A Clinical Algorithm for Diagnosing Latent TB in Healthy Adults Previously Vaccinated with Bacille Calmette-Guerin*

DNP Project Committee Member

2012 Linda Fahey, *Expanding Potential of Radio-frequency Nurse Call systems to Measure Nursing Time in Patient Rooms*

PhD Dissertation Committee Member

2021–present Daniel Fraczkowski, RN and MD shared mental models and documentation concordance

2019–2022 Haleh Vatani, *Understanding Dyadic and Polyadic Heart Failure Self-Care from Informal Caregivers' Perspective*
*Co-Mentor

2019–2022 Catherine Schwartz, *Phenotype discovery and intervention effectiveness for older adult women with circulatory problems*

2017 Jeffrey Matson, *Using Multi-Media Theory to Design Nursing Handoffs: A Randomized Controlled Trial*

2015–present Eve Martinez Soto, *Decision Making Strategies and Patterns of Novice and Expert Nurses and the Impact on Patient Outcomes*

2015–2017 Seung Un Lee, *Effects of Individual Nurse and Hospital Characteristics on Patient Adverse Events and Quality of Care*

2013 Janet Stifter, *Using an Electronic Health Record to Examine Nurse Continuity and Pressure Ulcers*