

December 17, 2024

Vini Nathan, PhD  
Provost and Senior Vice President for Academic Affairs  
Search Committee Colleagues  
Auburn University  
Auburn, Alabama

Dear Provost Nathan and Search Committee Colleagues,

Please consider my letter of interest in response to your posting for Dean for Auburn University's College of Nursing. My leadership experience, personal values, and deep passion for Nursing and health underpin my motivation to pursue your prestigious opportunity.

#### *Leadership Experience*

For the last four years I have grown in progressive leadership experiences in a Research I, land grant-mission institution of higher learning. I have completed formal leadership training through national and local programming, am active with the University of Arizona (UA) HeadsUp community, and have developed a praxis of leading over the last 4 years as a program director and interim division chair. My background and experience in shared governance, meaningful and federally-funded research, administrative leadership, and program direction strengthen my developing competence as a chair. In the UA HeadsUp program, I learned strategies for promoting positive culture, managing resources, providing and receiving feedback, and navigating crucial conversations. Additionally, I completed competitively selected training at UA as part of the Academic Leadership Institute in 2023-2024 which built on the three years of leadership training that I completed with the Robert Wood Johnson Foundation Nurse Faculty Scholars program.

#### *Research and Scholarship*

As a faculty clinician scholar, my contributions to research lie at the intersection of stakeholder-engaged implementation science and informatics to improve care quality. Although my population of focus has been vulnerable neonates, especially those at risk for complications of premature birth (i.e. necrotizing enterocolitis, NEC), my informatics work has spanned populations and contexts. My research and leadership illustrate the essential need to engage stakeholders to shape clinical practice. I built and validated a clinical prediction algorithm, GutCheckNEC, the first NEC early warning score, for timely NEC rescue while showing that NICU practices drove NEC risk. Shifting to prevention, I spawned "NEC-Zero" with a goal to move NEC "to zero" in US NICUs. With funding support from RWJF, AHRQ and NLM, I created a clinical decision support dashboard and a multi-media toolkit to engage parents and clinicians in relevant actions to avoid NEC. In September 2024 we received the notice of award from the Agency for Healthcare Research and Quality (R01) to extend NEC-Zero by using a telehealth delivered mentoring strategy to link experts with local NICU clinicians to embed NEC prevention in clinical care. This work builds on our past relationships, engaging teams from across the US, targets health disparities for NEC, and partners with a large neonatal medical group which provides care for approximately 20% of US NICU admissions annually. To increase impact and drive NEC to zero I worked with national and international groups (NEC Society, PCORI funded NEC symposiums and International Neonatal Consortium) to spread best practice knowledge, standardize care and formalize guidance for practice and research. In 2018, funded by the National Network of Libraries of Medicine, my team disseminated the NEC-Zero toolkit via webinars and multi-media to reach Arizona, New York, Brazil, Los Angeles, Texas, Florida, and Hawaii- spanning all six inhabited continents. In 2024 we learned that our NEC-Zero website was being used as the basis for AI-Copilot recommendations for clinical improvements. Subsequently, we have received international and national requests to use GutCheckNEC. Future funding proposals will leverage AI to expand GutCheckNEC, and separately- to extend the NEC-Zero intervention for newborns with congenital heart disease. As of today, I have 99 published manuscripts and 3300+ citations. Among my publications, over 32 have been cited at least 32 times (h-index of 32) and 74 have been cited at least 10 times.

#### *Involvement and Leadership across PhD and DNP Programs*

I have served as PhD director, overseeing a cadre of courses and faculty to deliver PhD education via a hybrid model to our 45-55 active students. I served as specialty coordinator for the DNP informatics specialty until it was closed. As interim chair of the Biobehavioral Health Sciences Division (22-23), I led faculty in the PhD and RN-MS programs. In July 2023 we merged faculty from across our doctoral programs into a single division, which I have led as chair for the last year (interim). As the Chair (interim) for the Advanced Nursing Practice and Science Division, I worked closely with the DNP director/Vice Chair and the Specialty coordinators (CRNA, AGACNP, FNP, PNP, Midwifery, Executive Health Systems Leadership) to deliver an exceptional DNP education experience for students. The DNP program is currently ranked #19 among programs in the U.S. One of our shared activities was to work with Arizona Online to enact more tailored marketing for the DNP program. Additionally, I have taught in DNP courses, served on and led DNP project committees, and participated in the DNP-Curriculum Instruction and Support committee as ex-officio member (2021-2024). During the on-campus clinical immersion experiences for the year I have served as interim chair (2023-2024), I have physically been present and provided support for faculty. Although I am not a nurse practitioner, I have great respect for the role. Further, I believe in the strength of the DNP and worked hard this year to develop a workplace culture that is respectful, inclusive, excellence-focused, and communicates equal value to the doctoral pathways in nursing. My experience working with DNP provides a rich foundation to develop in terms of working across programs.

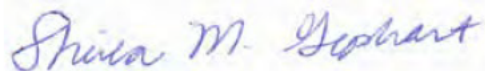
#### *National/International Reputation*

I was promoted to Full Professor with tenure in spring 2022 at the University of Arizona. I was selected as a Fellow in the American Academy of Nursing and the Western Academy of Nursing in 2019, following selection by the Council for the Advancement of Nursing Science for Brilliant New Investigator in 2018. In 2023, I was nationally recognized by the National Association of Neonatal Nursing for Distinguished Service. I am deeply thankful for the career development, leadership training, and mentoring I received from 2014-2017 through the Robert Wood Johnson Foundation Nurse Faculty Scholars Program. I have provided international invited presentations, worked with colleagues to translate my tools into Spanish, Chinese, and Italian, and have found my tools to be frequently downloaded by NICU clinicians abroad. I have also served at invitation on initiatives through the International Neonatal Consortium. Additionally, tools that I co-created to examine nurses' experience of electronic health record unintended consequences have been used by groups across the nation (AWHONN, Emergency Nurses Association, VA Health Administration) and informed EHR-quality improvement efforts (Dignity Health, SW US).

#### *Alignment, Commitment, and Summary*

My commitment to the mission of nursing education is steadfast and I am grateful to have worked with outstanding people in my role as interim chair. At this time, I am eager to learn from other colleges and faculty and have been impressed with Auburn University's impressive pre-licensure nursing program, faculty, and staff. As interim chair for the last 2 ½ years, I have developed in leadership competency to lead a college prepared to extend our academic nursing workforce. I have personally fostered an environment of excellence, the pursuit of NIH funding among our faculty, fostering of policies to provide greater incentive to seek funding and stay financially sustainable, and shared governance to grow as a college in the midst of much change. My continually growing leadership praxis and competency supports effective strategies to manage conflict, create a positive work culture, give and receive feedback, manage organizational change, sustain career optimism through transition, and continue to show up for one's faculty and staff because they are the center of the academic mission and engine. I look forward to learning more from your leaders and faculty as the process unfolds.

With Regards,



Sheila M. Gephart, RN, PhD, FWAN, FAAN  
Professor, Interim Chair of the Advanced Nursing Practice and Science Division  
The University of Arizona College of Nursing

**Sheila M. Gephart, PhD, RN, FWAN, FAAN**  
Tucson, AZ

**Chronology of Education:**

<u>Institution</u>	<u>Degree</u>	<u>Date Awarded</u>
Chemeketa Community College Salem, Oregon	Associates of Applied Science Registered Nursing	June 1997
Oregon Health Sciences University Portland, Oregon	Bachelor of Science Nursing	August 1998
The University of Arizona, Tucson, Arizona	Ph.D., Nursing Minor: Health Informatics	May 2012

Dissertation:

Gephart, S. M. (2012). Validating a neonatal risk index to predict necrotizing enterocolitis. (Ph.D.), the University of Arizona.

Dissertation Director: Judith A. Effken, Ph.D., RN, FAAN, FACMI

Licensure:

Arizona State Board of Nursing, R.N. #RN145827 Expires 04/01/2027

Major Fields:

*Neonatal Care:* Prevention and early recognition of necrotizing enterocolitis (NEC) by engaging clinicians and parents to adopt evidence-based practices and use algorithms to support early recognition, specifically the tool I developed and validated, GutCheck<sup>NEC</sup>. Outreach to Neonatal Intensive Care Units (NICUs) to spread best practice to avoid NEC using Project ECHO (telehealth).

*Informatics:* Electronic Health Record usability and unintended consequences, spreading evidence-based practices using informatics and clinical decision support. Integration of algorithmic clinical decision support for drug-drug interactions. Telehealth delivered mentoring to boost adoption of necrotizing enterocolitis prevention in NICUs.

*Implementation Science:* Knowledge synthesis with stakeholder engagement to test implementation, adherence to multi-faceted interventions, approaches to nation-level facilitation and implementation of best practice in NICUs.

*Instrument Development:* Development and psychometric validation of instruments including a criterion-referenced index (GutCheck<sup>NEC</sup>), a self-report instrument (Carrington-Gephart Unintended Consequences of EHR Questionnaire) and an adherence score for implementation of evidence-based practices to prevent necrotizing enterocolitis (NEC-Zero adherence score).

**Chronology of Employment:**

<u>Dates</u>	<u>Institution</u>	<u>Position</u>
1997-2001	Salem Hospital, Salem, OR	Staff RN, Neurology/Stroke Unit
2001-2007	Salem Hospital, Salem, OR	Staff RN, NICU
2005-2007	Salem Hospital, Salem, OR	VON NICU Data Administrator
2007-2008	Favorite Healthcare, Tucson, AZ	Registry RN
2007-2010	Northwest Hospital, Tucson, AZ	Staff RN, Neonatal Intensive Care Unit
2009-2011	University of Arizona College of Nursing, Tucson, AZ	Graduate Assistant, Nursing Research
2011-2012	University of Arizona College of Nursing, Tucson, AZ	Pre-doctoral Research Fellow
2012- 2017	The University of Arizona, Tucson, AZ	Assistant Professor
2017-present	The University of Arizona, Tucson, AZ	Associate Professor with Tenure

2022- The University of Arizona, Tucson, AZ Professor with Tenure

### Faculty-specific leadership roles

2018-2022	The University of Arizona	Nurse Faculty Loan Program, teaching coordinator
2020-2022	The University of Arizona	DNP-Informatics Specialty Coordinator
2021-2022	The University of Arizona	PhD Program Director (Interim, appointed 5/21-2/22, Permanent 2/22-6/22, resigned to take the interim chair role)
2022-2023	The University of Arizona	Division Chair, Biobehavioral Health Sciences (Interim, appointed, 7/1/22, division changed 7/1/23). This division included all tenure-track faculty, the PhD program, the faculty whose primary teaching was in the RN-MS program, and the sunseting RN-MS program.
2023-current	The University of Arizona	Division Chair, Advanced Nursing Practice and Science (Interim, appointed, 7/1/23). This division includes all faculty who are tenured, tenure-eligible, and career track faculty whose primary teaching is in the Doctor of Nursing Practice or PhD programs.

### Honors and Awards:

1994	Salem Hospital Auxiliary Scholarship, Salem, Oregon
1995	Salem Hospital Foundation Scholarship, Salem, Oregon
2008	Graduate College Fellowship, University of Arizona
2008	Graduate Tuition Scholarship, University of Arizona
2009-2011	Beverly McCord Doctoral Scholarship, University of Arizona
2009-2011	Southern Arizona Foundation Scholarship-Nursing, University of Arizona
2012	Western Institute of Nursing Research Annual Conference, Best Student Poster Award- Runner-Up
2012	University of Arizona College of Nursing Alumni Council Award
2014	Tucson Hispanic Chamber of Commerce, 40 under 40 award
2014	University of Arizona Alumni Association, Young Professional Award
2014	Robert Wood Johnson Foundation, Nurse Faculty Scholar Award
2014	Arizona Nurses Association, 1 <sup>st</sup> place Research Poster
2015	Arizona March of Dimes, Nurse of the Year nominee
2016	Fabulous Fifty Nurse Award, Tucson, Arizona
2016	Friends of the National Institute of Nursing Research (FNINR) protégée award, nominated
2018	Council for the Advancement of Nursing Science, Brilliant New Investigator
2019	Inducted into Fellowship in the Western Academy of Nursing (FWAN)
2019	Inducted into Fellowship in the American Academy of Nursing (FAAN)
2020	Excellence in Teaching Award for Graduate Education (University of Arizona)
2023-2024	University of Arizona's Academic Leadership Institute, Selected as a fellow
2023	National Association of Neonatal Nursing, Distinguished Service Award

### Service/ Outreach

#### Local/State Outreach

2012-present	Banner University Medical Center-Tucson (formerly University of Arizona Medical Center) Research and Evidence Based Practice Council
2015-present	Member, Banner Nursing Research & Evidence Based Practice System-wide Advisory Board
2016- 2018	Sigma Theta Tau Beta Mu, elected board member, governance committee (2016-2018)

#### National/International Outreach

2011- present	Editorial Board, <i>Advances in Neonatal Care</i>
2013	<i>Newborn and Infant Nursing Reviews</i> , co-guest editor for inflammation issue, published in December 2013
2014-present	Section Editor, Evidence-Based Practice Briefs; <i>Advances in Neonatal Care</i>
2013-present	Member, planning committee for the first US-based NEC conference funded by a PCORI Engagement Award and led by the NEC Society.
2013-2016	Expert participant on the usability workgroup for the AHRQ-funded study (Malone-PI) to form recommendations for best practices in drug-drug interaction alerting for clinical decision support systems. Attended meetings in person and online over 18 months and helped to write the paper reporting our results (published in the Journal of the Medical Informatics Association). I was the only RN on the informaticist team and worked with experts from the US and internationally (Sweden). I was not paid for this work.
2015-2016	Worked with the Premie Parent Alliance to evaluate their member organizations' connections to others in the network by conducting their data analysis for their annual member survey.
2016	Research mentor, National Association of Neonatal Nursing (NANN) research summit. Attended the summit and offered constructive feedback to attendees on their research presentations and plans for next steps.
2016	Research advisory member for the Morgan Leary Vaughan Fund's protocol development to form the first international NEC registry. They are funded by the National Organization of Rare Diseases and the Food and Drug Administration.
2016-2019	Member of International Neonatal Consortium NEC workgroup, Critical Path Institute. Focus on research process in NICU and modifiable NEC risk factors.
2018	Council for the Advancement of Nursing Science, Abstract reviewer.
2021-	Global Neonatology Society, member
2021-	International Neonatal Consortium; equity and racial disparities workgroup, Nurses and clinical trials workgroup, invited participation in 2022 real world data workgroups and panel
2023	National Institutes of Health, Invited reviewer, Clinical Informatics and Digital Health (CIDH) Study Section

#### Departmental committees:

2017-2022	Division advisory committee (annual reviews, strategic guidance)
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#### College committees:

2012-2013	College of Nursing Framework Interest Group
2012-2014	College of Nursing Informatics Task Force
2013-2016	College of Nursing Ph.D. Committee (Elected)
2014, 2015, 2016	<i>Ph.D. Committee Subcommittee</i> : Resident Intensive Summer Experience (RISE) Planning Committee for Ph.D. education.
2014, 2015, 2013	<i>Ph.D. Committee Subcommittee</i> : Ph.D. applicant reviews and interviews
2014, 2015, 2013	<i>Ph.D. Committee Subcommittee</i> : Doctoral Research Grants Reviewer
2015-present	College of Nursing Core Data Set Ad Hoc Steering Committee
2016-2019	College of Nursing Big Data and Data Science Curriculum Ad Hoc Task Force
2016-2019	College of Nursing Faculty Council (Elected)
2017-2018	College of Nursing Faculty Council Chair-Elect
2018-2019	College of Nursing Faculty Council Chair
2018-2019	College of Nursing Dean search committee
2020-2021	College of Nursing Departmental Review Committee (IRB, etc.), elected
2020-2021	College of Nursing Ph.D. Committee (interim/appointed as ex officio 2020-2021)

2021-2022	College of Nursing Faculty Appointment, Promotion and Tenure Committee, elected
2022-2023	College of Nursing, Administrative Council (invited)
2023-	College of Nursing, Academic Leadership Council (invited)
2022-	University of Arizona's HeadsUp Network member
2023-2024	University of Arizona, Academic Leadership Institute (competitively selected)

#### University committees:

2012-2014	Interprofessional Quality and Safety special interest group (Arizona Health Sciences Center)
2012-2013	Interprofessional Quality and Safety Activities -Pandemic Flu Event (2012, 2013) -Professionalism Activity (2012) -Interprofessional student safety and quality teams (lead- Terri Warholak, College of Pharmacy) with role of mentor to nursing students (Andrea James and Michelle Winters)
2018-2021	University of Arizona Committee on Ethics and Commitment (Elected)
2018-2019	University of Arizona Health Sciences Strategic Planning Steering Committee
2020-2022	University of Arizona Faculty Senate, College of Nursing Senator (Elected)
2021-2023	University of Arizona Graduate Council (Appointed)
2022-present	University of Arizona HeadsUp Network
2024-2025	University of Arizona, University Advisory Committee on Promotion and Tenure (UACPT, selectively appointed)

#### Other Committees (Internal or External)

2014-present	Necrotizing Enterocolitis (NEC) Society Scientific Advisory Board <i>Subcommittee:</i> NEC Symposium Co-abstract review chair, Session chair, and planning committee member (PCORI funded)
2015-2017	Advisory Board Member, Graham's Foundation
2016- 2019	Morgan Leary Vaughan Fund, Scientific Advisory Board Member <i>Subcommittee:</i> National Organization of Rare Diseases (NORD) protocol team for first international registry of NEC
2015	Mentor, Latin American Summer Internship program. Mentee: Melissa Ruiz from the University of Sonora at Hermosillo
2015	Preceptor, College of Public Health Internship. Mentee: Scott Robert Johnson, undergraduate public health student.

#### *Research Grant proposal review service (non-NIH):*

2016, 2019	Maternal Newborn Child and Youth Strategic Clinical Network, Alberta Health Services (International)
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#### *Journal review service:*

2011-	<i>Advances in Neonatal Care [editorial board], 4/year</i>
2012-	<i>Journal of Perinatal and Neonatal Medicine</i>
2012	<i>Nursing Research and Practice</i>
2013-	<i>Journal for Specialists in Pediatric Nursing</i>
2014-	<i>Pediatrics</i>
2014-	<i>Computers, Informatics, Nursing (CIN)</i>
2015-	<i>Journal of Perinatology</i>
2014-present	<i>American Medical Informatics Association, abstract review</i>
2018-2020	<i>The Journal of Maternal-Fetal and Neonatal Medicine</i>
2017-	<i>Journal of the American Medical Informatics Association</i>



2018	<i>Council for the Advancement of Nursing Science, State of the Science Congress abstract review</i>
2018-	<i>Journal of Pediatric Nursing</i>
2020-	<i>Worldviews in Evidence-based Nursing</i>

#### *Professional organizations:*

2010-present	National Association of Neonatal Nurses (NANN)
2009-2019	Sigma Theta Tau International, Beta Mu Chapter
2010-2019	Western Institute of Nursing (WIN)
2011, 2015	American Medical Informatics Association (AMIA)
2018-2020	Council for the Advancement of Nursing Science
2019-present	Western Academy of Nursing (fellow)
2019- present	American Academy of Nursing (fellow)

### **Publications/Creative Activity**

#### Scholarly books and monographs:

None

#### Chapters in scholarly books and monographs

1. Msowoya, A. & Gephart, S. (2018). Patient Centered Evidence Based Practices. In *Evidence-Based Practice for Nursing and Healthcare Quality Improvement*. Eds: Lobiondo-Wood, G., Haber, J. & Titler, M.
2. Gephart, S.M. (2020). Chapter 23: Supporting NEC risk awareness with bedside tools like GutCheckNEC. In *Necrotizing Enterocolitis: Pathogenesis, Diagnosis and Treatment*. Ed: Hackam, D. [Interdisciplinary]
3. Gephart, S.M. (2020). Chapter 26: Implementation strategies for quality improvement to avoid necrotizing enterocolitis. In *Necrotizing Enterocolitis: Pathogenesis, Diagnosis and Treatment*. Ed: Hackam, D.

#### Refereed Journal articles (\*substantially done as a graduate student; †=data-based, +=mentored student manuscripts):

1. \*† Effken, J. A., Brewer, B. B., Logue, M. D., **Gephart, S. M.**, & Verran, J. A. (2011). Using cognitive work analysis to fit decision support tools to nurse managers' workflow. *Int J Med Inform*, 80(10), 698-707. doi:10.1016/j.ijmedinf.2011.07.003
2. \*† Effken, J. A., Carley, K. M., **Gephart, S.**, Verran, J. A., Bianchi, D., Reminga, J., & Brewer, B. B. (2011). Using ORA to explore the relationship of nursing unit communication to patient safety and quality outcomes. *Int J Med Inform*, 80(7), 507-517. doi:10.1016/j.ijmedinf.2011.03.015
3. \***Gephart, S. M.**, McGrath, J. M., & Effken, J. A. (2011). Failure to rescue in neonatal care. *Journal of Perinatal & Neonatal Nursing*, 25(3), 275-282.
4. \***Gephart, S. M.**, & Cholette, M. (2011). Living through the unexpected: Two fathers share their experience with postpartum hemorrhage. *International Journal of Childbirth Education*, 26(4), 49-52.
5. \***Gephart, S. M.** (2012). The art of effective handoffs: what is the evidence? *Adv Neonatal Care*, 12(1), 37-39. doi:10.1097/ANC.0b013e318242df86
6. \***Gephart, S. M.**, & McGrath, J. M. (2012). Family-centered care of the surgical neonate. *Newborn & Infant Nursing Reviews*, 12(1), 5-7. doi:10.1053/j.nainr.2011.12.002
7. \***Gephart, S. M.**, McGrath, J. M., Effken, J. A., & Halpern, M. D. (2012). Necrotizing enterocolitis risk: State of the science. *Advances in Neonatal Care*, 12(2), 77-87; quiz 88-79.
8. Cholette, M., & **Gephart, S. M.** (2012). A model for the dynamics of bereavement caregiving. *International Journal of Childbirth Education*, 27(2), 14-18.
9. **Gephart, S. M.**, & Cholette, M. (2012). PURE communication: A strategy to improve care coordination for high-risk birth. *Newborn & Infant Nursing Reviews*, 12(2), 109-114. doi:10.1053/j.nainr.2012.03.007

10. **Gephart, S. M.** (2012). Transfusion-associated necrotizing enterocolitis: Evidence and uncertainty. *Adv Neonatal Care*, 12(4), 232-236. doi:10.1097/ANC.0b013e31825e20ee
11. \*† Effken, J. A., **Gephart, S. M.**, Brewer, B. B., & Carley, K. M. (2013). Using \*ORA, a network analysis tool, to assess the relationship of handoffs to quality and safety outcomes. *CIN: Computers, Informatics, Nursing*, 31(1), 36-44. doi:10.1097/NXN.0b013e3182701082
12. **Gephart, S. M.**, & Hanson, C. K. (2013). Preventing necrotizing enterocolitis with standardized feeding protocols: Not only possible, but imperative. *Advances in Neonatal Care*, 13(1), 48-54. doi:10.1097/ANC.0b013e31827ece0a
13. **Gephart, S. M.**, Hundley, L., & Paulsen, M. (2013). Crib Notes: An Electronic Health Record for neonatal intensive care units. *Neonatal Intensive Care*, 26(2), 44-47.
14. †**Gephart, S. M.**, Effken, J. A., McGrath, J. M., & Reed, P. G. (2013). Expert consensus building using e-Delphi for necrotizing enterocolitis risk assessment. *JOGNN: Journal of Obstetric, Gynecologic & Neonatal Nursing*, 42(3), 332-347. doi:10.1111/1552-6909.12032
15. †Garcia, C., & **Gephart, S. M.** (2013). The effectiveness of early intervention programs for NICU graduates. *Advances in Neonatal Care (Lippincott Williams & Wilkins)*, 13(4), 272-278. doi:10.1097/ANC.0b013e31829d8c75
16. **Gephart, S. M.** (2013). Using health information technology to engage patients in their care. *Online Journal of Nursing Informatics*, 17(3), 1-6.
17. † Beall, V., Hall, B., Mulholland, J. T., & **Gephart, S. M.** (2013). Neonatal extravasation: An overview and algorithm for evidence-based treatment. *Newborn & Infant Nursing Reviews*, 13(4), 189-195. doi:10.1053/j.nainr.2013.09.001
18. **Gephart, S. M.**, & Newnam, K. (2013). Inflammation and immune issues in the neonate. *Newborn & Infant Nursing Reviews*, 13(4), 146-147. doi:10.1053/j.nainr.2013.09.009
19. Newnam, K., **Gephart, S. M.**, & Wright, L. (2013). Common complications of dysregulated inflammation in the neonate. *Newborn & Infant Nursing Reviews*, 13(4), 154-160. doi:10.1053/j.nainr.2013.09.006
20. **Gephart, S. M.**, & Weller, M. (2014). Colostrum as oral immune therapy to promote neonatal health. *Advances in Neonatal Care (Lippincott Williams & Wilkins)*, 14(1), 44-51. doi:10.1097/ANC.0000000000000052
21. † **Gephart, S. M.**, Spitzer, A. R., Effken, J. A., Dodd, E., Halpern, M., & McGrath, J. M. (2014). Discrimination of GutCheckNEC: a clinical risk index for necrotizing enterocolitis. *Journal of Perinatology*, 34(6), 468-475. doi:10.1038/jp.2014.37
22. † **Gephart, S. M.**, Wetzel, C., & Krisman, B. (2014). Prevention and early recognition of necrotizing enterocolitis: A tale of 2 Tools-eNEC and GutCheck<sup>NEC</sup>. *Advances in Neonatal Care (Lippincott Williams & Wilkins)*, 14(3), 201-210. doi:10.1097/ANC.0000000000000063
23. †Poole, S. N., & **Gephart, S. M.** (2014). State of the science for practice to promote breastfeeding success among young mothers. *Newborn & Infant Nursing Reviews*, 14(3), 112-118. doi:10.1053/j.nainr.2014.06.009
24. ††**Gephart, S. M.**, Poole, S. N., & Crain, D. R. (2014). Qualitative description of neonatal expert perspectives about necrotizing enterocolitis risk. *Newborn & Infant Nursing Reviews*, 14(3), 124-130. doi:10.1053/j.nainr.2014.06.004
25. †† Carrington, J. M., **Gephart, S. M.**, Verran, J. A., & Finley, B. A. (2015). Development of an instrument to measure the unintended consequences of EHRs. *Western Journal of Nursing Research*, 37(7), 842-858. doi:10.1177/0193945915576083
26. † Payne, T. H., Hines, L. E., Chan, R. C., Hartman, S., Kapusnik-Uner, J., Steiner, C., ... **Gephart, S.M.**, ..., Malone, D. (2015). Recommendations to improve the usability of drug-drug interaction clinical decision support alerts. *Journal of the American Medical Informatics Association*, 22(6), 1243-1250. doi:10.1093/jamia/ocv011



27. \* Hartley, K. A., Miller, C. S., & **Gephart, S. M.** (2015). Facilitated tucking to reduce pain in neonates: Evidence for best practice. *Advances in Neonatal Care (Lippincott Williams & Wilkins)*, 15(3), 201-208. doi:10.1097/ANC.0000000000000193
28. Vincent, D., Hastings-Tolsma, M., **Gephart, S.**, & Alfonzo, P. M. (2015). Nurse practitioner clinical decision-making and evidence-based practice. *Nurse Practitioner*, 40(5), 47-54. doi:10.1097/01.NPR.0000463783.42721.ef
29. \***Gephart, S.**, Carrington, J. M., & Finley, B. (2015). A systematic review of nurses' experiences with unintended consequences when using the electronic health record. *Nursing Administration Quarterly*, 39(4), 345-356. doi:10.1097/NAQ.000000000000011
30. \*Price, L. E., Shea, K., & **Gephart, S.** (2015). The Veterans Affairs' corporate data warehouse. *Nursing Administration Quarterly*, 39(4), 311-318. doi:10.1097/NAQ.0000000000000118
31. **Gephart, S. M.** (2015). Fostering best practice: Strategies for writing evidence-based practice briefs. *Advances in Neonatal Care (Lippincott Williams & Wilkins)*, 15(5), 299-306. doi:10.1097/ANC.0000000000000222
32. †<sup>+</sup> **Gephart, S. M.**, Martin, L. B., Kijewski, A., & Johnson, S. R. (2015). A case study of late onset necrotizing enterocolitis from early birth to recovery. *Journal of Perinatal & Neonatal Nursing*, 29(4), 345-355. doi:10.1097/JPN.0000000000000137
33. † 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. *J Am Med Inform Assoc*. 24(2):441-450. doi:10.1093/jamia/ocw084
34. †<sup>+</sup>**Gephart, S. M.**, Bristol, A. A., Dye, J. L., Finley, B. A., & Carrington, J. M. (2016). Validity and reliability of a new measure of nursing experience with unintended consequences of electronic health records. *Comput Inform Nurs*. 34(10):436-447. doi:10.1097/cin.0000000000000285
35. \*Burca, N. D., **Gephart, S. M.**, & Miller, C. (2016). A nurse's guide to promoting breast milk nutrition in infants with cleft lip and/or palate [Family Teaching Toolbox]. *Adv Neonatal Care*. 16(5):345-346. doi:10.1097/anc.0000000000000308
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### Non-refereed articles

1. **Gephart SM.** The Need for PhD-prepared Nurse Scientists to Stem the Faculty Shortage. *Arizona Nurse*. 2021;74(3):18.
2. **Gephart, S. M.** (2023). Choose Nursing -- Again. *Arizona Nurse*, 76(3), 1.

### In Preparation or Review

Harmon, C.S., Davis, J.E., Adams, S.A., Donevant, S.B. & **Gephart, S.** Psychometric evaluation of cognitive load and unintended consequences of EHRs in US emergency nurses. *Computers, Informatics, Nursing*. Submitted: August, 2024.

Vyas, P. **Gephart, S.M.** Byte by Byte, Wisdom Takes Flight: Unraveling the Middle-Range Theory of Technology-Enhanced Wisdom in Nursing. *Nursing Science Quarterly*. Target submission: November 2024.

Platt, C., Platt, B., Hunsley, J., Morrison, H., **Gephart, S.**, & Pace, T. The relationship between salivary cortisol levels and family hardiness within families caring for at-risk children: A pilot study. *Biological Research for Nursing*. Target: September 2024.

**Gephart, S.**, Quinn, M., Tolentino, D.A. & Wyles, C. Recognition and rescue processes for necrotizing enterocolitis among neonatal intensive care clinicians. *Journal of Patient Safety*. Target: September 2024.

### Other Scholarship

#### Media

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**Gephart, S. M.** Gutcheck<sup>NEC</sup> – A Comprehensive Overview of Risk Assessment with Dr. Sheila Gephart. The Morgan Leary Vaughan Fund, Inc., Connecticut, Episode 8, Podcast posted October 28, 2015. Available at <http://www.morgansfund.org/speaking-of-nec-episode-8/>



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### Websites

University of Arizona College of Nursing (2017-2021). <https://neczero.nursing.arizona.edu/>.

University of Utah (2020-2021). <https://ddi-cds.org/>. Created by the MDIA Project Team, including archiving of webinars.

Credible Meds. <https://www.crediblemeds.org/qtccds>. Created by the Qtc Risk Algorithm clinical decision support team as educational supplement to the CDS implementation.

### Technology

NEC-Zero dashboard. In partnership with Emory Fry and Cognitive Medical Systems. Code for logic and technology-components available at GitHub as open source.

NEC-Zero app (iOS). In development by David Celaya and the University of Arizona College of Nursing Learning and Health Technology Innovation group. In beta testing.

### **Conferences/ Scholarly Presentations** (Selected and from the last five years)

#### National Invited Seminars

**Gephart, S. M.** Necrotizing enterocolitis: a wicked problem in a complex context: will GutCheck<sup>NEC</sup> improve outcomes? Connecticut Children's Medical Center Neonatal Research Day, March 11, 2014, Hartford, CT [Inter-professional].

**Gephart, S.M.** Preparing your presentation for publication. 11<sup>th</sup> Annual National Association of Neonatal Nurses (NANN) Research Summit, Scottsdale, Arizona, April 6, 2016 [Nursing].

**Gephart, S.M.** Solving the wicked problem of necrotizing enterocolitis. Denver Advanced Practice Neonatal Nursing Conference, Children's Hospital Colorado and Frontier Association of Neonatal Nurses, Denver, Colorado, June 23, 2016 [Nursing, Inter-professional panel].

\*Dunn-Lopez, K., **Gephart, S.M.**, Abraham, J. (2016). Current state of nursing clinical decision support and future directions: an integrative literature review. In symposium "Designing Next Generation of Clinical Decision Support for Nursing from Hospital to Homecare: AMIA Nursing Informatics Group Pre-Symposium Tutorial." *American Medical Informatics Association*, November 12, 2016, Chicago, Illinois [Interprofessional, Invited].

**Gephart, S.M.** Integrating evidence, engagement, and technology in implementation science at the frontline. Children's Hospital of Wisconsin; Milwaukee, Wisconsin, June 14-15, 2017 [Nursing].

**Gephart, S.M.** Innovating within the Electronic Health Record for Quality Care to Reduce Complications of Prematurity. National Pediatric Nurse Scientist Collaborative 2018 Research Fly-In. Milwaukee, WI, May 18, 2018 [Nursing].

**Gephart, S.** Playing your part in patient safety to prevent failed rescue. Florida Association of Neonatal Nurse Practitioners 29<sup>th</sup> Annual NNP Symposium. Clearwater Beach, FL, October 16, 2018 [Nursing].

**Gephart, S.** Getting to zero NEC together: the NEC-Zero project. Florida Association of Neonatal Nurse Practitioners 29<sup>th</sup> Annual NNP Symposium. Clearwater Beach, FL, October 17, 2018 [Nursing].

**Gephart, S.** Sound the Alarm: Risk, Readiness, and Rescue in the Neonatal Intensive Care Unit New England Association of Neonatal Nursing. Mystic, Connecticut, March 2019 [Nursing].

**Gephart, S.** Implementation-Ready NEC-Zero Practices for Your NICU Today! New England Association of Neonatal Nursing. Mystic, Connecticut, March 2019 [Nursing].

**Gephart, S.** Inertia breaking methods to change practice. National Association of Neonatal Nursing Research Summit, Scottsdale, Arizona, March 26, 2019 [Nursing].

**Gephart, S.** Twists and turns on the path to discovery: from GutCheckNEC to NEC-Zero. National Association of Neonatal Nursing Research Summit, Scottsdale, Arizona, March 27, 2019 [Nursing].

**Gephart, S.** Implementation strategies to support Necrotizing enterocolitis (NEC) risk recognition and prevention in fragile infants: the Nec-Zero project. National Nursing Practice Network, hosted by the University of Michigan, delivered online, April 8, 2019 [Nursing].

**Gephart, S.** , Eklund, W., Grogan, C., Vernon, L., & Green, L. Workgroup facilitation: Tools to Support Families with NEC Survivors. International NEC Symposium 2019, Ann Arbor, MI, June 4, 2019 [Inter-professional].

**Gephart, S.** & Sylvester, K. NEC Risk: Early Identification and Risk Stratification. International NEC Symposium 2019, Ann Arbor, MI, June 5, 2019 [Inter-professional].

**Gephart, S.** NEC risk, Timely recognition and communication. "Nurses and NEC" webinar, NEC Society, online, June 22, 2021 [Inter-professional].

**Gephart, S.** Twists, Turns and Telehealth on the Road to End NEC. Academy of Neonatal Nursing, Chicago, Ill. September 10, 2021 [Nursing].

**Gephart, S.** NICU Nurse, I Believe You! GutCheckNEC to Improve NEC Risk Awareness and Communication. Academy of Neonatal Nursing, Chicago, Ill. September 10, 2021 [Nursing].

**Gephart, S.,** Platt, C. & Prettyman, A. Building Bridges: Engineering a Successful DNP/PhD Program. AACN Doctoral Education Conference, Virtual Delivery, January 21, 2022. [Nursing].

**Gephart, S.** Project ECHO as a Strategy to Facilitate QI Across Under-Resourced NICUs. Nemours Hot Topics in Neonatal Care. National Harbor, Maryland. December 9, 2024 [Interprofessional, International, Invited].

*In Progress*

None

#### Local Invited Colloquia

**Gephart, S.M.** Steps to avoid failed rescue in neonatal ICU. Tucson Neonatal and Perinatal Nurses Conference, Tucson, Arizona, August 26, 2016. [Nursing]

**Gephart, S.M.** Reliability, resilience, and rescue. Arizona Research Festival. August 11, 2017. Phoenix, Arizona. [Nursing]

**Gephart, S.M.** NEC-Zero Resources to Reach Caregivers of Premature Infants at Risk for NEC. Neonatal Nurse Practitioners of Arizona Conference, Chandler, AZ, February 9, 2018 [Nursing]..

**Gephart, S.** Tools to support NEC risk recognition and prevention: from GutCheckNEC to NEC-Zero. Dinner talk delivered in Scottsdale, Arizona and hosted by Evivo. April 9, 2019 [Interprofessional].

**Gephart, S.** Insights from research on optimizing technology for nursing work. Arizona chapter of the American Nursing Informatics Association (Az ANIA). Online webinar. June 21, 2021 [Nursing].

#### Peer-Reviewed Conference Presentations (Since 2016, \*Podium, +Poster, <sup>0</sup> Student-mentored)

1. \*Rosenfeld, A.R., Carrington, J.M., **Gephart, S.M.**, Insel, K.C., Loescher, L. J., Reed, P.G., Taylor-Piliae, R.E. Defying the Skeptics: Strategies and Successes of an Online Ph.D. Program. AACN Doctoral Education Conference, January 20, 2016. [Nursing]
2. <sup>0</sup>+Porter, C.M., Ruiz, M., Wyles, C., Johnson, S., & **Gephart, S.**, The NEC-Zero Project. Student Showcase 2016, The University of Arizona, Tucson, AZ, February 24<sup>th</sup>, 2016. [Mentored student; Inter-professional].
3. <sup>0</sup>\*Dudding, K. M., **Gephart, S. M.**, & Carrington, J. M. (2016). Neonatal Nurses Experience Frequent Interruptions, Work- arounds, and Risks to Patient Safety with Electronic Health Records. *Advances in Neonatal Care (Lippincott Williams & Wilkins)*, 16(3), E5-E5. doi:10.1097/ANC.0000000000000277 [Mentored student; Nursing]
4. <sup>0</sup>\***Gephart, S.**, Wyles, C., (2016). Quantification and validation of an adherence score for practices that prevent necrotizing enterocolitis in very low birthweight infants. Council for the Advancement of Nursing Science, Washington, D. C., September 15-17, 2016. [Nursing]
5. <sup>0</sup>\***Gephart, S.**, Wyles, C., (2016). SMART on FHIR sharing of clinical decision support for scalable nursing research and interoperable informatics practice. Council for the Advancement of Nursing Science, Washington, D. C., September 15-17, 2016. [Nursing]
6. <sup>0</sup>\*Quinn, M., **Gephart, S.**, Wyles, C. (2016). Identifying sociotechnical influences in early recognition of necrotizing enterocolitis to inform clinical decision support design for neonatal care. Council for the Advancement of Nursing Science, Washington, D. C., September 15-17, 2016. [Mentored student; Nursing]
7. \***Gephart, S.M.** & Rosenfeld, A.R. (2016). Adherence scoring to relate adoption of evidence to necrotizing enterocolitis in U.S. NICUs. *Robert Wood Johnson Foundation Nurse Faculty Scholars National Meeting*, Baltimore, MD, December 1, 2016. [Nursing]

8. <sup>0</sup>+**Gephart, S.M.**, Wyles, C. (2016). Engaging parents and clinicians to design a multi-faceted intervention to prevent neonatal complications. Academy Health 9<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation, Washington, D.C., December 13-14.
9. \***Gephart, S.M.**, Brewer, B., Carrington, J. Doyle, M.D., Shea, K. & Rosenfeld, A.R. Weaving data science into the fabric of core curriculum for the nursing research doctorate. AACN Doctoral Education Conference, San Diego, CA, January 20-22, 2017.
10. Shea, K., **Gephart, S.M.**, Brewer, B., Carrington, J., Davis, M. & Rosenfeld, A.R. Leading Change: Threading Data Science through the Nursing PhD Curriculum. Western Institute of Nursing Communicating Research Conference, Denver, CO, April 19-22, 2017.
11. <sup>0</sup>+Quinn, M. & **Gephart, S.M.** The Current State of NEC Prevention Practices in the NICU. NEC Symposium, Davis, CA, April 6-7, 2017.
12. +Rothers, J., Fleiner, M. & **Gephart, S.** GutCheck<sup>NEC</sup> as Predictor of NEC and Relations with Pediatric Early Warning Scores. NEC Symposium, Davis, CA, April 6-7, 2017.
13. \***Gephart, S.M.** Towards a NEC prevention checklist. NEC Symposium. April 5, 2017. Davis, CA (Invited).
14. <sup>0</sup>+Tolentino, D.A., & **Gephart, S.** Sequential pattern analysis of nurses' EHR navigation and documentation. Western Institute of Nursing, Denver, CO, April 2017.
15. +Carrington, J. M., Brewer, B., Davis, M., **Gephart, S.M.**, Shea, K.D., Rosenfeld, A.R. Use of NLP to Analyze Core Course Content and Weave in Data Science. AMIA Inspire Educational Conference, San Diego, CA, June 2017.
16. <sup>0</sup>+**Gephart, S.**, Porter, C. & Wyles, C. Validation of adherence scoring, prevention checklist and parent education materials to reduce necrotizing enterocolitis to zero occurrence (NEC-Zero) in the neonatal intensive care unit. *Academy Health Dissemination and Implementation Science Conference*. Washington, D.C. December 4-6, 2017.
17. <sup>0</sup>Wyles, C. & **Gephart, S.** Two examples of new ways of bridging the information gap by disseminating information: NEC-Zero Project & Project ECHO. Medical Library Group of Southern California & Arizona and the Northern California & Nevada Library Group 2018 Joint Meeting. Scottsdale, AZ. January 21-24, 2018 (Lightening Talk).
18. <sup>0</sup>+Wyles, C. & **Gephart, S.** Engaging a community during a scoping review. Medical Library Group of Southern California & Arizona and the Northern California & Nevada Library Group 2018 Joint Meeting. Scottsdale, AZ. January 21-24, 2018.
19. <sup>0</sup>**Gephart, S.**, Tolentino, A., Quinn, M., Wyles, C., Surcouf, J. & Fry, E. NICU Workflow and Technical Needs to Prevent and Support Timely Recognition of Necrotizing Enterocolitis with NEC-Zero CDS. AMIA 2018 Clinical Informatics Conference, Scottsdale, AZ. May 9, 2018.
20. **Gephart, S.** Precision health research and implementation reviewed through five synergistic principles: Clinical decision support needed to achieve precision health. Council for the Advancement of Nursing Science. Washington, D.C. September 14, 2018.
21. <sup>0</sup>**Gephart, S.** Wyles, C. & Slebodnik, M. Targeted NEC-Zero dissemination to reach caregivers of premature infants. Western Institute of Nursing Communicating Research Conference, San Diego, CA. April 10-13, 2019 [Withdrawn due to COVID-19].

22. Shea, K., **Gephart, S.** & Newnam, K. Project ECHO as an implementation strategy and opportunities to test mechanisms of effectiveness informed by the iPARHIS framework. Western Institute of Nursing Communicating Research Conference, San Diego, CA. April 10-13, 2019 [Withdrawn due to COVID-19].
23. <sup>o</sup>Wyles, C. & **Gephart, S.** A Reflection of an Embedded Nurse-Librarian during a Scoping Review and the Development of an Information Toolkit. 2019 Joint NCNMLG/MLGSCA Meeting. San Francisco, CA. June 13, 2019.
24. **Gephart, S.** Educating under-resourced units to reduce NEC with NeoECHO. National Association of Neonatal Nursing Educational Conference, Virtual delivery due to COVID-19, October 2020.
25. <sup>o</sup>Tolentino, DA, Insel, K. & **Gephart, S.** (2020). The relationship between task-technology fit and nurses' performance in the EHR. AMIA annual meeting. Virtual Delivery. Distinguished poster finalist.
26. <sup>o</sup>Wyles, C. & **Gephart, S.** Appraisal of NEC-Zero Español Toolkit Designed for Families of Fragile Infants. National Association of Neonatal Nursing Educational Conference, Virtual delivery due to COVID-19, October 2020.
27. <sup>o</sup>Grant, C., & **Gephart, S. M.** (2021, April). Nurse Collaborations across Fetal Diagnosis, NICU and HOME Health Networks. In *Western Institute of Nursing Communicating Research*. Western Institute of Nursing. [Accepted]
28. <sup>o</sup>Platt, C.R. & **Gephart, S.** (2021, April). Foster family adaptive theory (FFAT): A mid-range approach to complex family systems. In *Western Institute of Nursing Communicating Research*. Western Institute of Nursing. [Accepted]
29. <sup>o</sup>Calver, S. & **Gephart, S.** (2021, April). Design and Piloting an EHR Taskbar to Engineer System Resilience for Clinical Practice. In *Western Institute of Nursing Communicating Research*. Western Institute of Nursing. [Accepted, Poster]
30. <sup>o</sup>Weiss, A. & **Gephart, S.** (2021). Patterns of Knowing Leveraged by Neonatal Nurses and Neonatal Nurse Practitioners During Clinical Deterioration. Academy of Neonatal Nurses, Advanced Practice Conference, Chicago, Ill., September 9-11, 2021.
31. **Gephart, S.** & Wyles, C. (2021). NeoECHO as an Implementation Process to Engage NICUs in NEC Prevention. Synova Nursing Leadership Forum. Tucson, Arizona, November 17-20, 2021.
32. <sup>o</sup>Zhang, T, **Gephart, S.** , Subbian, V., Boyce RD., Villa-Zapata, L., Hansten, P., Horn, J., Romero, A., & Malone, DC. Barriers and Facilitators to Adoption of Drug-Drug Interaction Clinical Decision Support in US Healthcare Organizations. Academy Health Dissemination and Implementation Science Conference, December 2021.
33. Li, Z. & Gephart, S. (2022). Inclusive excellence in undergraduate clinical education. Western Institute of Nursing Communicating Research conference, April 2022, Portland, OR (podium).
34. Li, Z. & Gephart, S. (2022). Prevalence and characteristics of the turnover intention of nurse leaders. Western Institute of Nursing Communicating Research conference, April 2022, Portland, OR (podium).
35. Li, Z. & Gephart, S., Brewer, B. (2022). Turnover intention in acute care nurse leaders: a scoping review. Western Institute of Nursing Communicating Research conference, April 2022, Portland, OR (podium).
36. Ercole, A., Gephart, S., Shea, K. (2022). Global Health in India: Lessons Learned. Western Institute of Nursing Communicating Research conference, April 2022, Portland, OR (poster).
37. Vyas, P. & Gephart, S. (2022). Nurses' Perceptions of Using Artificial Intelligence to Support Clinical Practice. Western Institute of Nursing Communicating Research conference, April 2022, Portland, OR (poster).
38. Carlson, A. & Gephart, S. (2022). Measurement of stress among accelerated second Bachelors of Science nursing students. Western Institute of Nursing Communicating Research conference, April 2022, Portland, OR (poster).
39. Platt, C. Gephart, S., Hunsley, J., Pace, T. & Morrison, H. Leveraging Technology to Deliver a Behavioral Intervention for Complex Families. Western Institute of Nursing Communicating Research conference, April 2023, Tucson, AZ (podium).

40. Platt, C., Pace, T., Morrison, H., & Gephart, S. Feasibility of Assessing Diurnal Salivary Cortisol Rhythm within Foster Families. Western Institute of Nursing Communicating Research conference, April 2023, Tucson, AZ (podium).
41. Grant, C. & Gephart, S. Maternal Perspectives on Peer Support Systems Engaged with Technology. Western Institute of Nursing Communicating Research conference, April 2023, Tucson, AZ (podium).
42. Li, Z., Gephart, S., Brewer, B. & Morrison, H. Acute Care Nurse Leaders' Job-Related Attitudes and Perceptions on Turnover Intention. Western Institute of Nursing Communicating Research conference, April 2023, Tucson, AZ (podium).
43. Vyas, P. & Gephart, S. Technology-Enhanced Wisdom: An Emerging Mid-Range Nursing Theory. Western Institute of Nursing Communicating Research conference, April 2023, Tucson, AZ (podium).
44. Gephart, S., Fleiner, M., Rothers, J. & Msowoya, A. Revisiting NEC Risk Awareness with a Refined GutCheckNEC. National Association of Neonatal Nursing. Anaheim, CA. September 24, 2023.
45. Vyas, P. & **Gephart, S.** (2024). Charting a Course to Excellence: Navigating Data Science Needs in Nursing Education. Western Institute of Nursing Communicating Research Conference, Salt Lake City, Utah, April 2024 (poster).
46. Taylor-Vaughan, L. & **Gephart, S.** (2024). Western Institute of Nursing Communicating Research Conference, Salt Lake City, Utah, April 2024 (poster).

#### **Awarded Grants and Contracts:**

##### Federal:

- |                           |  |
|---------------------------|--|
| 9/1/2024-<br>6/30/2029    | Agency for Healthcare Research and Quality (AHRQ, R01HS030226). "Reducing Necrotizing Enterocolitis Disparities with a Neonatal Project ECHO." Role: Principal Investigator, 25% effort. \$1,980,020.00.   |
| 4/01/2019-<br>3/30/2022   | Agency for Healthcare Research and Quality (AHRQ, R18 HS026662-01). "Dissemination and Implementation of QT Risk Clinical Decision Support." Role: Co-investigator and Dissemination and Implementation Science Lead, 10% effort. PI: Daniel C. Malone, RPh, PhD.                                  |
| 05/01/2018-<br>04/30/2023 | Agency for Healthcare Research and Quality (AHRQ, R01HS 25984-01) "Meaningful Drug Interaction Alerts." (Role: Site PI, Dissemination and Implementation Science Lead, 10%. PI: Dan Malone, RPh, PhD).   |
| 12/18/2017-<br>04/30/2018 | Pacific SW National Network of Libraries of Medicine. "Targeted Dissemination of NEC-Zero Resources to Reach Underserved Caregivers of Premature Infants at Risk for Necrotizing Enterocolitis in the National Network of Libraries of Medicine Pacific SW Region." (Role: Principal Investigator) |
| 9/30/2014-<br>9/29/2019   | Agency for Healthcare Research and Quality (K08 HS22908-01A1), "Clinical Decision Support Optimizing NEC Prevention and Early Recognition" (75% effort, Role: PI)  |
| 08/2011-<br>05/2012       | National Institutes of Health/ National Institute of Nursing Research (F31NR012333), "Validating a Necrotizing Enterocolitis Risk Index for Neonates" (Role PI, PhD Pre-doctoral Fellow).  |

##### Private Foundation:

- |                           |   |
|---------------------------|---|
| 09/01/2014-<br>02/28/2018 | Robert Wood Johnson Foundation Nurse Faculty Scholar Program (ID 72114), "Computerized clinical decision support optimizing necrotizing enterocolitis prevention" (25% effort, Role PI) |
|---------------------------|---|

##### State (Intramural):

- |                           |  |
|---------------------------|--|
| 02/01/2013-<br>08/30/2014 | Lawrence B. Emmons Fund (College of Nursing Intramural). "Relationships of clinical markers of deterioration to GutCheck <sup>NEC</sup> score in necrotizing enterocolitis" (Direct Costs \$16,120, Role:PI).                            |
| 01/2014-<br>12/2015       | Arizona Area Health Education Centers (AHEC; Arizona Health Sciences Center Intramural). "Validation and adaptation of the bedside Pediatric Early Warning System (b-PEWS) for infants 501-1500 grams." (Direct costs \$5000, Role: PI). |
| 02/01/2014-<br>05/31/2015 | Lawrence B. Emmons Fund (College of Nursing Intramural). "Piloting the Unintended Consequences of Electronic Health Record (I) Use Questionnaire." (Direct costs, \$19,998, Role: Co-PI with Carrington)                                 |



04/01/2018-03/31/2019	Arizona Area Health Education Centers (AHEC) Program. "Understandability and Acceptability of the NEC-Zero Espanol Toolkit for Families of Fragile Infants." (Direct costs, \$5000, Role Co-I with Christina Wyles).
08/30/2018-08/29/2021	Lawrence B. Emmons Fund (College of Nursing Intramural). "Feasibility and Acceptability of the NEC-Zero Toolkit and NeoECHO to Facilitate Best Practice to Prevent Necrotizing Enterocolitis." (Direct costs, \$20,000, Role: co-PI with Dr. Kimberly Shea)
6/15/2020-6/14/2021	National Association of Neonatal Nursing Small Grants Program. "Failure to Rescue in Neonatal Care. Role: Mentor to Principal Investigator and PhD student, Alyssa Weiss. \$3500. Goal: Using grounded theory methods and interviews with NICU nurses, the processes and systems involved in rescue and failed rescue will be examined.

### **ADVISING AND MENTORING RESPONSIBILITIES:**

**Special Teaching Assignment:** *Faculty mentor lead for the Nurse Faculty Loan Program* from 2018-2022. In this role, I review a student's eligibility for participation in the NFLP program, making a recommendation of their suitability. Then, once the student is admitted and receives funding, I work with the student to determine the number of teaching practicum hours that they need to fulfill the NFLP practicum requirement. During the program, I interview them yearly and work with them to identify suitable practicum experiences and discuss teaching opportunities for once they graduate.

### **Student Advising:**

Undergraduate students mentored:

Dates	Name	Program or School
Fall 2013	Andrea James	College of Pharmacy/Nursing Inter-professional Quality and Safety Team Project
Summer 2015	Melissa Avenado Ruiz	Latin American Summer Internship Program, visiting from University of Sonora de Unison in Hermosillo, Sonora, Mexico at University of Arizona
Summer 2015	Scott Nelson	College of Public Health, UA
Fall 2015-Spring 2016	Caroline Porter	College of Nursing, UA
Summer 2018	Francesco Nunez Emily Head	ANIE Program, College of Nursing
Summer 2019	Francesco Nunez	ANIE Program, College of Nursing
2021-2022	Sophie Setton	Research mentoring, College of Nursing
2023	Emma Brack	Place-based Health Informatics Research Experience (PHIRE) research mentor, pre-nursing student

Graduate students mentored (Chair of doctoral committee or main advisor):

Dates	Name	Project Title or Topic	Program or School
2012-2015	Cristianna Garcia	Early intervention programs: Preemie parents' perceptions and barriers to participation	DNP, UA
2013-2015	Keith Kent	Development of an Auditing Tool for Measuring Adherence to a Sedation Protocol	DNP, UA
2012-	Tracy Nguyen	Preventing sudden infant death syndrome: assessment of	DNP, UA

2015		advanced practice nurses' knowledge, attitudes, and current practices	
2013-2016	Amy Kijewski (Msowoya)	Dissemination of patient decision-making aids via a web-based platform	DNP, UA
2013-2016	Kristina Bardwell	Evaluation of the early warning system at Banner Desert Medical Center	DNP, UA
2013-2017	Dorothy Igwe	Practitioners' perception of implementing the pediatric early warning system (PEWS) in primary care	DNP, UA
2013-2016	Sasha Poole	The Process Young Mothers Undergo to Achieve the Healthy People 2020 Objective of Exclusive Breastfeeding for Three Months	PhD, UA
2013-2019	Marteen Sparks	Transitions of late preterm infants	PhD, UA
2014-2019	Megan Quinn	Implementation of palliative care in NICU	PhD, UA
2014-2017	Jenny Quinn	Facilitation as Implementation Strategy in NICU Quality Improvement	PhD, UA
2018-2019	Nicole Ringo	Exploring Higher Rates of Breastfeeding among Civilian Military Wives: A Mixed Methods Study	PhD, UA
2015-2019	Anthony Tolentino	Quantitative exploration of nurses' task-technology fit within the electronic health record (EHR) using regression and data mining: an EHR workflow analysis	PhD, UA
2017-2022	Consuelo Grant	Theory utilization of nurses at transitions for high-risk infants (developmental dissertation idea)	PhD, UA
2018-present	Victoria Towers	Telehealth use for NICU graduates	DNP/PhD UA
2018-2021	Emily Moore	Morbidity and mortality related to rurality in infants with congenital heart disease	PhD, UA
2018-2021	Alyssa Weiss	Rescue theory (developmental dissertation idea)	PhD, UA
2019-2022	Christine Platt	Families of disabled children in foster care, adoption outcomes	PhD/DNP dual
2020-2021	Joshua T. Dunn	Anesthetic care of children with Down syndrome	DNP
2020-22	Rookmin Seunarine	Discontinued	DNP-Informatics
2020-	Stephen Calver	Health systems and operational efficiencies	PhD
2020-	Pankaj Vyas	Big data analytics in healthcare	PhD
2020-	Krista Brandon	PhD advisor, Comprehensive exam committee chair, Dissertation chair	PhD
2020-2022	Sherri Duarte	Bar code scanning for blood product administration	DNP-Informatics
2021-	Lisa Grisham	Advisor, Dissertation co-chair Babywearing effects on cortisol and oxytocin in infants with neonatal abstinence syndrome	PhD/DNP dual
2020-2022	Zhizhong Li	Contributing factors to turnover intention among nurse leaders	PhD
2022-2023	Daisy Garcia	Advisor, transitioned to Dr. Badger and Fox, Minor committee chair	PhD
2022-	Catherine Harpst	Committee member, Chair is Dr. Shea	PhD
2023-	Lee Taylor-Vaughan	PhD advisor and chair	PhD
2024-	Todd Adams	PhD advisor (transferred in year 2)	PhD

2024	Kaylee Fauvell	PhD advisor	PhD
2022-	Devon Cobos-Garcia	PhD committee (minor comprehensive exam chair)	PhD
2023-	Donna Eyler	PhD committee member, Chair is Dr. Rainbow	PhD

Graduate students mentored (Role of committee member for doctoral project for DNP or PhD):

Dates	Name	Role
2013-2016	Patricia Veleta	DNP comps and project committee member, assisted with methods
2015-2017	Tetyana Missey	DNP advisor
2014-2015	Vanessa Velez	DNP comps and project committee member, assisted with methods
2015-2016	Alexandra Schutt	DNP project member, subject expert
2017	Stephanie Schafer	DNP project member
2015-2017	Rachel Knight	DNP project member
2016	Kacey Lohmann	DNP comps committee member
2014-2016	Pamela Bourg	PhD advisory committee and dissertation committee member
2015-2017	Judy Dye	PhD advisory committee and dissertation committee member
2015-2019	Darcy Mortimer	PhD advisory committee and dissertation committee member
2013-2014	Dennis Crain	PhD advisory committee member
2014	Lauren Price	PhD advisory committee member
2016-2019	Ryan Rasmussen	PhD advisory committee and dissertation committee member
2016-2018	Julie Luckart	DNP project committee member
2017	Tranise Goodlow	DNP project committee member
2017-2019	Nicholas Zumwalt	PhD advisory committee and dissertation committee member
2018-2019	Lauren Christensen	DNP project committee member
2018-2019	Lauren Stokes	DNP project committee member
2018-2019	Benjamin Galatzan	PhD advisory committee and dissertation committee member
2017-2022	Christina Wyles	PhD advisory committee and dissertation committee member
2020-2021	Zhizhong Li	PhD advisory committee member
2019-2021	Hanne Dolan	PhD advisory committee member, minor chair (nursing education)
2018-2021	Elizabeth Johnson	PhD advisory committee member
2022	Brayton Amidon	PhD advisory committee member (minor chair)
2022	Shannon Burleson	PhD advisory committee member (minor chair)
2022	Aubree Carlson	PhD advisory committee member (minor chair)
2022	Angie Norton	PhD advisory committee member (minor chair)

2022	Carlie Felion	PhD advisory committee member (minor chair)
2022	Mia McCallum	DNP project committee
2022	Alexandria Bosak	DNP project committee
2022	Olivia Meier	DNP project committee

### **Formal Research Supervision:**

#### Research Assistants Mentored:

Dates	Name	Position While Mentored	School
2013-2015	Amy Kijewski	Graduate assistant	College of Nursing
2013-2014	Patricia Veleta	Graduate assistant	College of Nursing
2013-2014	Dorothy Igwe	Graduate assistant	College of Nursing
2014	Polly Leighton	Undergraduate research assistant	College of Nursing
2015-2016	Caroline Porter	Undergraduate research assistant	College of Nursing
2015-2016	Scott Johnson	Undergraduate research assistant	College of Public Health
2017	Shayla Vo	Undergraduate research assistant	College of Public Health
2015-present	Christina Wyles	Research program coordinator (graduate)	College of Nursing
2016-2018	Megan Quinn	Graduate research associate	College of Nursing
2017-2018	D. Anthony Tolentino	Graduate research associate	College of Nursing
2021-2022	Tianyi "Tim" Zhang	Graduate research associate	College of Systems and Industrial Engineering (co-mentor with Dr. Vignesh Subbian)

**Predoctoral Fellows** supervised or mentored: As above

**Postdoctoral Fellows** supervised or mentored: None

#### **Faculty Mentored:**

Katherine Newnam, PhD, NNP-BC, University of Tennessee Knoxville, Knoxville, Tennessee.

Jessica Rainbow, PhD, RN (Faculty mentor at University of Arizona in the Community and Health Systems Science division)

As PhD director, mentored faculty in PhD student supervision and program processes.

As supervisor, mentored faculty in the BHS and ANPS divisions from 2022-2024.