CURRICULUM VITAE

Nai-Ching Chi, PhD, RN

Associate Professor
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Updated 2025-06

EDUCATION

Year	Degree	Field of Study	Institution & Location
2017	PhD	Biobehavioral Nursing and Health Informatics	University of Washington (UW) Seattle, Washington
2016	MS	Clinical Informatics and Patient-Centered Technologies	University of Washington (UW) Seattle, Washington
2012	MSN	Nursing	University of California San Francisco (UCSF) San Francisco, California
2004	BSN	Nursing	Tzu Chi University Hualien, Taiwan

PhD Dissertation (Advisor: Dr. George Demiris)
Challenges in Pain Management Faced by Family Caregivers in Hospice Care: An Exploratory Study and Utility Test of an Educational Tool to Support Pain Managements

MS Project (Advisor: Dr. George Demiris)
Perceived Utility and Acceptance of a Tablet-based Digital Pet Companion for Older Adults

LICENSURE

2018 - Present	RN, State of Iowa, #150441
2010 - Present	RN, State of California, #788993

CERTIFICATION

2012 - Present	CNS, State of California

PROFESSIONAL EXPERIENCE

Academic Appointments

2023 – Present	Associate Professor, The University of Iowa College of Nursing Iowa City, Iowa United States
2017 - 2023	Assistant Professor, The University of Iowa College of Nursing Iowa City, Iowa United States
2015 - 2016	Research Assistant, University of Washington Seattle, Washington United States
2014 - 2015	Teaching Assistant, University of Washington Seattle, Washington United States
2011 - 2012	Research Assistant, University of California San Francisco (UCSF) San Francisco, California United States

June 2025

HONORS AND AWARDS

National Awards & Honors
- Nomination and Invitation, Emerging Leader Forum, National Academy of Medicine (NAM) (2025)
- Emerging Leaders Award, Hospice and Palliative Nurses Foundation (HPNF) (2022)
- Leader Scholarship, Hospice and Palliative Nurses Foundation (HPNF) (2021)
- End-of-Life Nursing Education Consortium (ELNEC) Scholarship, Hospice and Palliative Nurses Foundation (HPNF) (one of 4 recipients in 2021)
- Scholar, NIH/NIA Butler-Williams Scholars Program (2021)
- Scholar, Palliative Care Research Cooperative Group (PCRC), Dementia Palliative Care Clinical Trials Intensive (2021)
- Scholar, NIH/NIA AGING Initiative MCCs Scholars Program (one of 12 scholars in 2021)
- Research Scholar Award, Hospice and Palliative Nurses Association (HPNA) (one of 3 scholars in 2020)
- Scholar, NIH/NCI-funded R25 Research Training: Harvard Medical School Workshop on Research Methods in Supportive Oncology (RMSO) (2020)

Regional Awards & Honors
- Outstanding Publication Award, Palliative & End-of-Life Care Research Interest Group, Midwest Nursing Research Society (MNRS) (2021)
- New Investigator Award, Palliative & End-of-Life Care Research Interest Group, Midwest Nursing Research Society (MNRS) (2020)
- Washington State King County Nurses Association Scholarship Award (one of 12 scholars) (2014)

University/Institutional Awards
- Teaching Excellence Award, College of Nursing, University of Iowa (2024)
- Scholarship Award, College of Nursing, University of Iowa (2023)
- Outstanding Doctoral Graduate, University Commencement, University of Washington (2017)
- Retirement Association Scholarship in Aging, University of Washington (one of 6 scholars among graduate schools) (2016)
- Top Scholar Award, University of Washington School of Nursing (2013)
- Excellent Student Award, Tzu Chi University (2004)
- Tzu Chi University Presidential Award, Tzu Chi University (2001–2004)
- Award of Excellent Clinical Performance, Nanly Hsu, Dean's Scholarship, Tzu Chi University (2003)

SCIENTIFIC AND EDUCATIONAL RESEARCH GRANTS
Extramural Research Grants
Federal
1. Submitted: Syndemic Interactions of ADRD with Multimorbidities: Early Prediction via Advanced AI. Role: Co-Investigator (10% for 5 years). Funding: $3,076,669 (2026-2031).

2. Submitted: Dementia Pain Management: A Conversational AI Solution for Family Caregivers. NIH/NIA. Role: Principal Investigator (20% for 5 years). Funding: $3,810,770 (2025-2030).

3. Submitted: Handoff Capsule AI: Transforming Pediatric Nursing Communication for Safer Patient Care. University of Iowa Health Care Stead Family Pediatrics. Role: Co-Investigator (10% for 2 years; PI: Yusuf Sermet). Funding: $499,843 (2025-2027).

4. Funded: Multimorbidity in Patients with Alzheimer's Disease and Association with Pain and Health Care Utilization: A Big Data Approach. NIH DHHS, P20 NR018081- Administrative Supplement Grant - Exploratory Center of Excellence for Advancing Multimorbidity Science (CAMS) (Gardner & Rakel, MPI). Role: Project Lead (20% for 2 years). Funding: $374,683 (2020-2022).

5. Funded: Center for Advancing Multimorbidity Science: Profiling risk and symptom expression to develop customized therapies for adults with multiple chronic conditions (CAMS). NIH/NINR (National Institute of Nursing Research), P20 NR018081 (Gardner & Rakel, MPI). Role: Center Faculty Associate. Funding: $2,226,995 (2018-2023)

International Organization
1. Funded & Ongoing: E-Tailored Pain Management Support for Dementia Family Caregivers. Alzheimer's Association, Research Grant, AARGD-22-929062. Role: Principal Investigator (20% for 3 years). Funding: $136,363 (2022-2026).

2. Completed: Pain Management Challenges for Family Caregivers in Hospice Care: An Exploratory Study and Utility Test of an Educational Tool to Support Pain Management. Sigma Theta Tau International-Psi at-Large Chapter. Role: Principal Investigator. Funding: $650 (2017).

Intramural Research Grants
1. Funded & Ongoing: Develop an AI-based Chatbot to Streamline Access to Information and Decision Making for Dementia Caregivers. Scored2Funded. University of Iowa. Role: Principal Investigator. Funding: $10,000 (2025-2026).

2. Funded & Ongoing: Investment in Strategic Priorities. University of Iowa. Role: Principal Investigator. Funding: $5,000 (2025-2026).

3. Completed: HOspice and palliative care Pain management Enhancement. Old Gold Summer Fellowship, University of Iowa. Role: Principal Investigator. Funding: $6,000 (2019 - 2020).

4. Completed: Development of Caregivers' Barriers to Pain Management Screening Questions and Revision of the Educational Material in the Caregiver Pain Management Manual. Csomay Center for Gerontological Excellence, Woodrow W. Morris Gerontology Research Award for Faculty. Role: Principal Investigator. Funding: $10,000 (2018 - 2021).

5. Completed: Pain Management Challenges for Family Caregivers in Hospice Care: An Exploratory Study and Utility Test of an Educational Tool to Support Pain Management. Hester McLaws Dissertation Funds, University of Washington, School of Nursing. Role: Principal Investigator. Funding: $3,500 (2015 - 2017).

Extramural Training Grants
1. Completed: Technologies Incubation Scholarship/ a Three-year Training Grant. Taiwan Ministry of Education. Role: Principal Investigator. Funding: $116,550 (2014 – 2017).

Intramural Training Grants (Scholarship and Fellowship)
1. Nursing Scholarship Fund, University of Washington, School of Nursing (2017)

2. Retirement Association Scholarship in Aging, University of Washington (2016)

3. Jeanne Q. Benoliel Endowed Fellowship, University of Washington, School of Nursing (2016)

4. Peter S. and Rose M. Christie Endowed Fund, University of Washington, School of Nursing (2016)

5. The de Tornyay Healthy Aging Center Travel Scholarship, University of Washington, School of Nursing (2016)

6. Benoliel Fellowship, University of Washington, School of Nursing (2015)

7. Pascoe Scholarship, University of Washington, School of Nursing (2015)

8. Hoffman Fellowship, University of Washington, School of Nursing (2013)

9. Shattuck Family Fellowship, University of Washington, School of Nursing (2012)

10. Top Scholar Award, University of Washington, School of Nursing (2012)

SCHOLARSHIP

Publications

N=41 publications, 24 data-based, 13 first authored, 9 second authored, 5 senior authored

Google scholar citation as of 06/2025 = 1354, h-index = 17, i10-index = 28

Scopus citations as of 06/2025 = 859, h-index = 14

[KEY: * = data-based paper; bold = my authorship; underline = student author; [1]= senior author, IF=Impact Factor]

Peer Reviewed Papers

1. *Vald, G., Sermet, Y., [1] **Chi, N. C**., & [1] Demir, I. (2025). Introducing and Evaluating the Patient Report Template for AI-Powered Nursing Handoffs. Learning Health Systems. (Impact Factor = 2.6) (Accepted)

2. *Chi, C.L., Liang, Y., Yew, P.Y., Khalifac, R., Shieu, B., **Chi, N.C.** (2025). Automate Creating, Customizing, and Optimizing Comorbidity Indices Using a Data-Driven AI/ML Approach. *MedInfo*.

3. *Vald, G., Sermet, Y., [1] **Chi, N. C**., & [1] Demir, I. (2025). Introducing and Evaluating the Patient Report Template for AI-Powered Nursing Handoffs. medRxiv, 2024-12.

4. Zhang, M., [1] **Chi, N. C.**, Gardner, S. E., & Moon, C. (2024). Rest-activity rhythm and cognitive function in older adults: A scoping review and integrative framework. *Geriatric Nursing*, 61, 80-90. (Impact Factor = 2.5) https://www.sciencedirect.com/science/article/pii/S0197457224003926

5. ***Chi, N. C**., Nguyen, K., Shanahan, A., Demir, I., Fu, Y. K., Chi, C. L., Perkhounkova, Y., Hein, M., Buckwalter, K., Wolf, M., Walliams, K., Herr, K. (2024). Usability Testing of the PACE-App to Support Family Caregivers in Managing Pain for People with Dementia. *Gerontologist. 65*(2), gnae163 https://doi.org/10.1093/geront/gnae163 (5-year Impact Factor = 5.0)

6. ***Yew, P. Y.**, Deverab, R., Liang Y., Khalifac, R., Sun, J., **Chi, N. C**., Chou Y. C., Tonellato, P. J., Chi, C. L. (2024). Unraveling the Complex Patterns of Multiple Chronic Conditions Among Alzheimer Disease and Related Dementias (ADRD) Patients- A Machine Learning Approach to Incorporate Synergistic Interactions. *Alzheimer's & Dementia*. (2024 IF: 16.655) https://doi.org/10.1002/alz.13923

7. **Chi, N.-C.**, Han, S., Lin, S.-Y., Fu, Y.-K., Nakad, L., & Demiris, G. (2024). Resilience-Enhancing Interventions for Family Caregivers: A Systematic Review. *Chronic illness, 20*(2), 199-220. (2021 IF=1.43) https://pubmed.ncbi.nlm.nih.gov/37259541/

8. Tonkikh, O., **Chi, N. C.**, Herr, K. A., Fishman, S. M., & Young, H. M. (2024). Supporting the Health and Well-Being of Caregivers of Persons with Pain. *Home Healthcare Now*, *42* (2), 103-109.

9. Zhang, M., Zhu, L., Lin, S.-Y., Herr, K., Chi, C.-L., Demir, I., Lopez D. K., [1] **Chi, N.-C.** (2023). Using Artificial Intelligence to Improve Pain Assessment and Pain Management: A Systematic Review. *Journal of the American Medical Informatics Association. 30*(3), *570-587.* (2021 IF=7.942) (**Editor's choice, featured**) https://academic.oup.com/jamia/article/30/3/570/6865111

10. Zhai, S., Chu, F., Tan, M., [1] **Chi, N.-C.**, [1] Ward, T., & [1] Weichao, Y. (2023). Digital Health Tools Assisted Interventions to Support Family Caregivers: An Updated Systematic. *Digital Health;* 9:

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20552076231171967. doi: 10.1177/20552076231171967. eCollection 2023 Jan-Dec (2022 IF=4.687)
https://pubmed.ncbi.nlm.nih.gov/37223775/

11. Tonkykh, O., **Chi, N.-C.**, Herr, K., Young, H., Fishman, S. (2023). Supporting the Health and Well-Being of Family Caregivers of Persons with Pain. *American Journal of Nursing*; *123*(6):55-61. (2022 IF=2.577)
https://pubmed.ncbi.nlm.nih.gov/37233141/

12. ***Chi, N.-C.**, Nakad, L., Han, S., Washington, K., Hagiwara, Y., Riffin, C., Parker Oliver, D., Demiris, G. (2023). Family Caregivers' Perceived Challenges to Cancer Pain Management for Patients in Palliative Care. *American Journal of Hospice and Palliative Medicine, 40*(1), 43-51. (5-year IF=2.379)
https://pubmed.ncbi.nlm.nih.gov/35503240/

13. Liebzeit, D., Krupp, A., Bunch, J., Tonelli, S., Griffin, E., McVeigh, S., **Chi, N.-C.**, Jaboob, S., Nakad, L., Arbaje, A., Buck, H. (2023). Empiric Literature on the Rural Age-Friendly Ecosystem: An International Scoping Review. *Health Science Reports*; *6*(5), 55-6. e1241. (2021 IF=1.95) (10% of most-viewed papers published in 2023).
https://pubmed.ncbi.nlm.nih.gov/37152222/

14. **Chi, N.-C.**, Fu, Y.-K., Nakad, L., Barani, E., Gilbertson-White, S., Tripp-Reimer, T., & Herr, K. (2022). Challenges That Family Caregivers Face in Providing Pain Management for Patients with Advanced Illnesses: A Systematic Review. *Journal of Palliative Medicine;25*(12):1865-1876. (2021 IF=2.947)
https://pubmed.ncbi.nlm.nih.gov/36178473/

15. *Kamalumpundi, V., Saeidzadeh, S., **Chi, N.-C.,** Nair R., Gilbertson-White, S. (2022). The Efficacy of Web or Mobile Based Interventions to Alleviate Emotional Symptoms in People with Advanced Cancer: A Systematic Review and Meta-Analysis. *Supportive Care in Cancer, 30:* 3029–3042. (5-year IF=3.677)
https://link.springer.com/article/10.1007/s00520-021-06496-z

16. *Saeidzadeh, S., Kamalumpundi, V., **Chi, N.-C.,** Nair R., Gilbertson-White, S. (2021). Web and mobile-based symptom management interventions for physical symptoms of people with advanced cancer: A systematic review and meta-analysis. *Palliative Medicine*; *35*(6): 1020-1038. (5-year IF=6.021)
https://journals.sagepub.com/doi/full/10.1177/02692163211006317

17. **Chi, N.-C.**, Barani, E., Fu, Y.-K., Nakad, L., Gilbertson-White, S., Herr, K., & Saeidzadeh, S. (2020). Interventions To Support Family Caregivers In Pain Management: A Systematic Review. *Journal of Pain and Symptom Management*. *60*):630-656. (2021 IF=5.576)
https://www.sciencedirect.com/science/article/pii/S0885392420302104

18. *Langer, S., Yi, J., **Chi, N.-C.**, & Lindhorst, T. (2020). Psychological Impacts and Coping Strategies Reported by Spousal Caregivers of Hematopoietic Cell Transplant Recipients. *Biology of Blood and Marrow Transplantation*. *26*(4):764-77. (2022 IF= 5.742)
https://www.sciencedirect.com/science/article/pii/S108387911930816X

19. Kearns, W., **Chi, N.-C.**, Choi, Y., Lin, S.-Y., Thompson, H., & Demiris, G. (2019). A Systematic Review of Health Dialog Systems. *Methods of Information in Medicine*. *8*(6): 179-193. (2021 IF=2.176)
https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-0040-1708807

20. *Joseph, L., Bair, H., Moorhead, S., Hanrahan, K., Butcher, H., Williams, M., & **Chi, N.-C.** (2019). Health Care Innovations Across Practice and Academia: A Conceptual Model. *Nursing Outlook*. *67*(5):596-604. (2022 IF=3.315) https://www.sciencedirect.com/science/article/pii/S0029655418305864

21. *Han, S., **Chi, N.-C.**, Washington, K., Parker Oliver, D., & Demiris, G. (2019). Adapting the Resilience Framework for Family Caregivers of Hospice Patients with Dementia. *American Journal of Alzheimers*

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Disease & Other Dementias, 34(6), 399-411. (5-year IF=2.9)
https://journals.sagepub.com/doi/full/10.1177/1533317519862095

22. ***Chi, N.-C.**, <u>Han, S.</u>, <u>Barani, E.</u>, Parker Oliver, D., Washington, K., Lewis, F., . . . Demiris, G. (2019). Development and Preliminary Evaluation of a Pain Management Manual for Hospice Providers to Support and Educate Family Caregivers. *American Journal of Hospice & Palliative Medicine, 36*(3), 207-215. (5-year IF=2.379) https://journals.sagepub.com/doi/full/10.1177/1049909118804984

23. *Cheng, C., **Chi, N.-C.**, Williams, E., & Thompson, H. (2018). Examining age-related differences in functional domain impairment following traumatic brain injury *International Journal of Older People Nursing, 13*(4): e12208. (2021 IF=2.471) https://onlinelibrary.wiley.com/doi/full/10.1111/opn.12208

24. *Le, T., **Chi, N.-C.**, Chaudhuri, S., Thompson, H. J., & Demiris, G. (2018). Understanding Older Adult Use of Data Visualizations as A Resource for Maintaining Health and Wellness. *Journal of Applied Gerontology, 37*(7), 922-939. (5-year IF=2.956) https://journals.sagepub.com/doi/full/10.1177/0733464816658751

25. *Walker, A. J., Lewis, F. M., Al-Mulla, H., Alzawad, Z., & **Chi, N. C.** (2018). Being Fully Present: Gains Patients Attribute to a Telephone-delivered Parenting Program for Child-rearing Mothers with Cancer. *Cancer Nursing, 41*(4), E12-E17. (5 year IF=3.043) https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5720933/

26. ***Chi, N.-C.**, Demiris, G., Pike, K. C., Washington, K., & Parker, O. D. (2018). Exploring the Challenges that Family Caregivers Faced When Caring for Hospice Patients with Heart Failure. *Journal of Social Work in End-of-Life & Palliative Care*, *14*(2-3): 162–176. (2020 IF=1.7) https://www.tandfonline.com/doi/full/10.1080/15524256.2018.1461168

27. *<u>Han, C.</u>, **Chi, N.-C.**, Han, S., Demiris, G., Parker Oliver, D., Washington, K., . . . Ellington, L. (2018). Communicating Caregivers' Challenges with Cancer Pain Management: An Analysis of Home Hospice Visits. *Journal of Pain and Symptom Management, 55*(5), 1296-1303. (2021 IF=5.576) https://www.sciencedirect.com/science/article/pii/S0885392418300113

28. ***Chi, N.-C.**, Demiris, G., Pike, K. C., Washington, K., & Parker, O. D. (2018). Pain Management Concerns from the Family Caregivers' Perspective. *American Journal of Hospice and Palliative Medicine, 35*(4), 601-611. (5-year IF=2.379) https://journals.sagepub.com/doi/full/10.1177/1049909117729477

29. *Joe, J., Hall, A., **Chi, N. C.**, Thompson, H., & Demiris, G. (2018). IT-based Wellness Tools for Older Adults: Design Concepts And Feedback. *Informatics for Health and Social Care, 43*(2), 142-158. (2021 IF=3.017) https://www.tandfonline.com/doi/full/10.1080/17538157.2017.1290637

30. ***Chi, N. C.**, <u>Sparks, O.</u>, Lin, S. Y., Lazar, A., Thompson, H. J., & Demiris, G. (2017). Pilot Testing a Digital Pet Avatar for Older Adults. *Geriatric Nursing, 38*(6), 542-547. (2022 IF=2.252) https://www.sciencedirect.com/science/article/pii/S0197457217301064

31. **Chi, N. C.**, & Demiris, G. (2017). Family caregivers' pain management in end-of-life care: A systematic review. *American Journal of Hospice and Palliative Medicine, 34*(5), 470-485. (5-year IF=2.379) https://journals.sagepub.com/doi/full/10.1177/1049909116637359

32. *Lewis, F. M., Alzawad, Z., Griffith, K., Almulla, H., Wu, P.-C., **Chi, N.-C.**, . . . Shands, M. E. (2017). Taking Care of Her: A Pilot Feasibility Study of a Caregiver Intervention for Women with Advanced Stage Ovarian Cancer. *Journal of Cancer Therapy, 8*(05), 472-489. https://scirp.org/journal/PaperInformation.aspx?PaperID=76513

33. *Lewis, F. M., Griffith, K. A., Walker, A., Lally, R. M., Loggers, E. T., Zahlis, E. H., . . . **Chi, N. C.** (2017). The Enhancing Connections-telephone Study: A Pilot Feasibility Test of a Cancer Parenting Program.

Supportive Care in Cancer, 25(2), 615-623. (5-year IF=3.677)
https://link.springer.com/article/10.1007/s00520-016-3448-z

34. **Chi, N. C.**, Demiris, G., Lewis, F. M., Walker, A. J., & Langer, S. L. (2016). Behavioral And Educational Interventions to Support Family Caregivers In End-of-life Care: A Systematic Review. *American Journal of Hospice and Palliative Medicine, 33*(9), 894-908. (5-year IF=2.379)
https://journals.sagepub.com/doi/full/10.1177/1049909115593938

35. Backonja, U., **Chi, N. C.**, Choi, Y., Hall, A. K., Le, T., Kang, Y., & Demiris, G. (2016). Visualization approaches To Support Healthy Aging: A Systematic Review. *Journal of Innovation in Health Informatics, 37*(7), 922-939. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5222528/

36. *Chung, J., Chaudhuri, S., Le, T., **Chi, N. C.**, Thompson, H. J., & Demiris, G. (2015). The Use Of Think-aloud To Evaluate A Navigation Structure For A Multimedia Health And Wellness Application For Older Adults And Their Caregivers. *Educational Gerontology, 41*(12), 916-929. (2021 IF=1.36)
https://www.tandfonline.com/doi/full/10.1080/03601277.2015.1071586

37. **Chi, N. C.**, & Demiris, G. (2015). A Systematic Review of Telehealth Tools and Interventions to Support Family Caregivers. *Journal of Telemedicine and Telecare, 21*(1), 37-44. (2021 IF=6.23)
https://journals.sagepub.com/doi/full/10.1177/1357633X14562734

38. *Chen, J.-L., Kwan, M., Mac, A., **Chin, N.-C.**, & Liu, K. (2013). iStart Smart: A Primary-Care Based and Community Partnered Childhood Obesity Management Program for Chinese-American Children: Feasibility Study. *Journal of Immigrant and Minority Health, 15*(6), 1125-1128. (2021 IF= 2.015)
https://link.springer.com/article/10.1007/s10903-013-9830-8

Invited Paper, Journal

39. Nakad, L., Booker, S., Gilbertson-White, S., Shaw, S., **Chi, N-C.**, Herr, K. (2020). Pain and Multimorbidity in Late Life. *Current Epidemiology Reports*. 7:1-8. (2022 IF=2.593)
https://link.springer.com/article/10.1007/s40471-020-00225-6

40. **Chi, N. C.**, & Demiris, G. (2017). The Roles of Telehealth Tools In Supporting Family Caregivers: Current Evidence, Opportunities, and Limitations. *Journal of Gerontological Nursing*, *43*(2), 3-5. (2020 IF=1.254)
https://journals.healio.com/doi/abs/10.3928/00989134-20170111-04

Editorials, Journal
41. Maus, M., Belza, B., **Chi, N.-C.**, Hunter, R., Mullen, S., & Satariano, W. A. (2016). Wayfinding Technologies for Older Adults with Visual Impairments: Ideas for Future Directions. *Journal of Visual Impairment & Blindness (JVIB), 110 (6)*, 447–448. (5-year IF: 1.268)
https://journals.sagepub.com/doi/abs/10.1177/0145482X1611000613

Submitted, Under Review, and Revision
1. ***Chi, N.-C.**, Hagiwara, Y., Herr, K., Buckwalter, K., Perkhounkova, Y., Hein, M., Gusen, M. J. The PACE intervention development and content validation. *American Journal of Hospice and Palliative Medicine.* (5 year IF: 2.0) (Revision)

2. * Yew, P. Y., Khalifa, R. A. E., Adam, T., Shieu, B., **Chi, N.-C.**, Chou, Y. C., Zhang, R., Xie, F., Tonellato, P., Chi, C.L. Enhancing Early Detection of Multiple Chronic Conditions with A Collaborative Strategy Between Individuals and Other Similar Individuals' Risk Profiles. Alzheimer's & Dementia. (2024 IF: 16.655) (Under Review)

Published Abstracts

1. *Liao, Y.-J., Jao, Y.-L., Boltz, M., Chi, N.-C., Berish, D., & Murphy, T. (2024). Pain competency evaluation in dementia (PACED) scale: Development and Evaluation of Content Validity. Innovation In Aging, 8(Supplement_1), 724. https://doi.org/10.1093/geroni/igae098.2360

2. **Chi, N. C**., Shanahan, A., Nguyen, K., Demir, I., Fu, Y. K., Herr, K. (2023). Usability Testing of The Pace App to Support Family Caregivers In Managing Pain For People With Dementia. Innovation in aging 7 (Suppl 1), 857

3. **Chi, N.-C.**, Lozier, P., Street, N., Buckwalter K., Gardner, S., Rakel, B., Perkhounkova, Y., Hein, M. (2023). Multimorbidity patterns in people with Alzheimer's disease. Alzheimer's & dementia 19, e064414.

4. Zhang M., Zhu L., Lin S., Herr K., [1]Chi, N.-C. (2021). Using Artificial Intelligence to Improve Pain Assessment and Pain Management: A Scoping Review. Innovation in Aging *5* (Suppl 1), 636. (2022 IF=6.06)

5. *Kamalumpundi V., Saeidzadeh, S., **Chi, N.-C.**, Nair R, Gilbertson-White, S. (2021). The Efficacy of Web and Mobile-Based Interventions to Alleviate Physical Symptoms in People with Advanced Diseases: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Journal of Pain and Symptom Management, 60 (1), 275. (2021 IF=5.576)

6. **Chi, N.-C.**, Nakad, L., Fu, Y.-K., Demir, I., Gilbertson-White, S., Herr, K., Demiris, G., Burnside, L. (2020). Tailored Strategies and Shared Decision-making for Caregivers Managing Patients' Pain: A Web App. Innovation in Aging, *4* (Suppl 1), 153. (2022 IF=6.06)

7. **Chi, N.-C.**, Han, S., Fu, Y.-K., Nakad, L, & Demiris, G (2020). Interventions to Enhance Resilience Among Family Caregivers. Innovation in Aging *4* (Supplement_1), 151-152. (2022 IF=6.06)

8. **Chi, N.-C.**, Barani, E., Fu, Y.-K. (2019). A Critical Review of Pain Management Training Programs for Family Caregivers. Innovation in Aging, 3(Suppl 1), S717. (2022 IF=6.06)

9. **Chi, N.-C.**, Fu, Y.-K., Barani, E., Summerson, E. (2019). Identify the Barriers that Family Caregivers Face in Managing Patients' Pain: A Literature Review. Innovation in Aging, 3(Suppl 1), S717. (2022 IF=6.06)

10. *Cheng, C., **Chi, N.-C.**, Williams, E., & Thompson, H. (2017). Examining Relationship Between Pre-injury Pain and Functional Status Following Traumatic Brain Injury, *Journal of Neurotrauma*, *13* (34), A139–140. (2020 IF=4.869)

11. ***Chi, N.**, Demiris, G., Thompson, H., Lazar, A., & Lin, S. (2016). The Usability of a Digital Companion Pet for Older Adults with Mild Cognitive Impairment. *Gerontologist,* 56, 566–566. (2020 IF=3.286)

Research and Clinical Presentations [KEY: * = data-based paper; bold = my authorship; underline = student author; [1] = senior author]
International
1. **Chi, N.-C.**, Lozier, P., Street, W. N., Buckwalter, K., Perkhounkova, Y., Hein, M., Yew, P. Y., Chi, C.-L., Rakel, B., & Gardner, S. (2025, July). Leveraging electronic health dataset to identify co-existing multimorbidity in individuals with Alzheimer's disease in the Midwestern United States. Alzheimer's Association International Conference 2025, Toronto, Canada. Poster Presentation.
2. **Chi, N.-C.,** Lozier, P., Street, N., Buckwalter K., Perkhounkova, Y., Hein, M., Rakel, B., Gardner, S. (2022). Leveraging Electronic Health Dataset to Identify Co-existing Multimorbidity Patterns in Individuals with Alzheimer's Disease in the US Midwest Area. The Alzheimer's Association International Conference, July 31- August 4, 2022, San Diego, California, United States. Poster Presentation.

National

3. ***Chi, N.-C.**, Buckwalter, K., <u>Yew, P. Y.</u>, <u>Gusen, N. J.</u>, <u>Chi, H.-C.</u>, Chi, C.-L., & Larson, S. (2025). Highly correlated multimorbidity in Alzheimer's disease: An EHR analysis. Gerontological Society of America 2025 Annual Scientific Meeting, Boston, Orlando, MA, United States. Poster Presentation.

4. <u>*Zhang, M.</u>, Jiang, J., Whitaker, K., Gardner, S. E., Chi, N.-C., Wang, B., & Moon, C. (2025). Investigating the association of positive affect and rest-activity rhythm in mid to later life adults. GSA 2025 Annual Scientific Meeting, November 12–15, 2025, Boston, MA. Poster Presentation.

5. *<u>Liao, Y.-J.</u>, [1] Jao, Y.-L., [1] Boltz, M., [1] <u>Chi, N.-C.</u>, [1] Berish, D., & [1] Murphy, T. (2024). PAIN COMPETENCY EVALUATION IN DEMENTIA (PACED) SCALE: DEVELOPMENT AND EVALUATION OF CONTENT VALIDITY. 2024 Gerontological Society of America (GSA) Annual Scientific Meeting, Seattle, Washington, United States. Poster Presentation.

6. ***Chi, N. C**., <u>Shanahan, A.</u>, <u>Nguyen, K.</u>, Demir, I., Fu, Y. K., Herr., K. (2023). Usability Testing of the PACE-App to Support Family Caregivers in Managing Pain for People with Dementia. Gerontological Society of America (GSA) 2023 Annual Scientific Meeting, November 8-12, 2023, Tampa, Florida. United States. Poster Presentation.

7. **Chi, N. C**. (2021). Existing Interventions to Support Family Caregivers in Providing Pain Management. Translational Research Institute on Pain in Later Life. Weill Cornell Medical College. TRIPLL 2021 Pain and Dementia Webinar Series, May 24th, Invited Speaker.

8. <u>Zhang, M. N.</u>, <u>Zhu, L. Z.</u>, Lin, S. Y., Herr, K., & [1] **Chi, N. C**. (2021). Using Artificial Intelligence to Improve Pain Assessment and Pain Management: A Scoping Review. Gerontological Society of America (GSA) 2021 Annual Scientific Meeting, November 10-14, 2021, Phoenix, Arizona. United States. Poster Presentation.

9. ***Chi, N.-C.**, <u>Lozier, P.</u>, Street, N., Perkhounkova, Y., Buckwalter K., Rakel, B., Gardner, S. (2021). Common Multimorbidity Patterns in Patients with Alzheimer's Disease: Big Data Approaches. 2021 Claude D. Pepper Older Americans Independence Centers (OAICs) Annual Virtual Meeting, United States. Poster Presentation.

10. ***Chi, N.-C.**, <u>Nakad, L.</u>, <u>Fu, Y.-K.</u>, Demir, I., Gilbertson-White, S., Herr, K., Demiris, G., Burnside, L. (2020). Tailored Strategies and Shared Decision-making for Caregivers Managing Patients' Pain: A Web App. The Gerontological Society of America 2020 Annual Virtual Scientific Meeting, Philadelphia, Pennsylvania, United States. Poster Presentation.

11. **Chi, N.-C.**, <u>Han, S.</u>, <u>Fu, Y.-K.</u>, <u>Nakad, L</u>, & Demiris, G. (2020). Interventions to Enhance Resilience Among Family Caregivers: A Systematic Review. The Gerontological Society of America 2020 Annual Virtual Scientific Meeting, Philadelphia, Pennsylvania, United States. Poster Presentation.

12. ***Chi, N.-C.**, <u>Nakad, L.</u>, <u>Fu, Y.-K.</u>, Demir, I., Gilbertson-White, S., Herr, K., Demiris, G., Parker Oliver, D., Hagiwara, Y. (2020). Shared Decision-making for Family Caregivers Managing Patients' Pain in Hospice Care: A Web App Approach. American Medical Informatics Annual Virtual Symposium, American Medical Informatics Association, Chicago, Illinois United States. Poster Presentation.

13. *Gilbertson White, S., <u>Kamalumpundi, V.</u>, <u>Saeidzadeh, S.</u>, **Chi, N.-C.**, Nair, R. (2020). Personal Informatics Interventions to Alleviate Emotional Symptoms in People with Advanced Cancer: A Meta-Analysis. American Medical Informatics Annual Symposium, American Medical Informatics Association, Chicago, Illinois United States. Poster Presentation.

14. *Kamalumpundi, V., Saeidzadeh, S., **Chi, N.-C.**, Nair, R., Gilbertson White, S. (2020). The Efficacy of Web and Mobile-Based Interventions to Alleviate Physical Symptoms in People with Advanced Diseases: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. State of the Science in Hospice and Palliative Care, The Annual Assembly of Hospice and Palliative Care, San Diego, California. Poster. (Conference canceled).

15. **Chi, N.-C.**, Fu, Y.-K., Barani, E., Nakad, L., Gilbertson-White, S., Herr, K., Summerson, E. (2019). Challenges of Family Caregivers in Managing Patients' Pain: A Systematic Review. The Gerontological Society of America 2019 Annual Scientific Meeting, Austin, Texas United States. Poster Presentation.

16. **Chi, N.-C.**, Barani, E., Fu, Y.-K., Nakad, L., Gilbertson-White, S., Herr, K. (2019). Pain Management Interventions for Family Caregivers: A Systematic Review. The Gerontological Society of America 2019 Annual Scientific Meeting, Austin, Texas, United States. Poster Presentation.

17. *Cheng, C., **Chi, N. -C.**, Williams, E., Thompson, H. (2017). Examining relationship between pre-injury pain and functional status following traumatic brain injury. Annual National Neurotrauma Symposium, Snowbird, Utah, United States. Poster Presentation.

18. **Chi, N. -C.**, Demiris, G. (2016). Informatics tools to support family caregivers' pain management in end-of-life care: Current evidence and opportunities. American Medical Informatics Association Conference, Chicago, Illinois, United States. Poster Presentation.

19. ***Chi, N. -C.**, Demiris, G., Thompson, H., Lazar, A., Lin, S. Y. (2016). The usability of a digital companion pet for older adults with mild cognitive impairment. The Gerontological Society of America 69th Annual Scientific Meeting, New Orleans, Louisiana United States. Poster Presentation.

20. *Langer, S., **Chi, N. -C.**, Lindhorst, T., Yi, J. (2016). What do spousal caregivers think and feel about treatment and recovery? Cancer Survivorship Research Conference, Washington, District of Columbia United States. Poster Presentation.

21. *Kwan, M., Chen, J. L., Lam, A., **Chi, N. -C**. (2012). Istart smart-a unique partnership between primary care, academic and community centers to promote health and weight management in Chinese american immigrant children. American Academy of Pediatrics National Conference and Exhibition, American Academy of Pediatrics, New Orleans, Louisiana United States. Poster Presentation.

State/Regional
22. ***Chi, N.-C.**, Lozier, P., Street, W. N., Buckwalter, K., Perkhounkova, Y., Hein, M., Yew, P. Y., Chi, C.-L., Rakel, B., & Gardner, S. (2025). Leveraging electronic health dataset to identify co-existing multimorbidity in individuals with Alzheimer's disease in the Midwestern United States. 2025 Midwest Nursing Research Society (MNRS) Conference, Indianapolis, Indiana, United States. Poster Presentation.

23. ***Chi, N.-C**. (2023). Leverage Technology and Data Science to Enhance Dementia Care, Multimorbidity, Pain Management & Caregiving. Presentation for Trainees of Weill Cornell Medicine's NIA-funded T32 Post-Doctoral Training Program in Behavioral Geriatrics, New York City, New York, United States. Invited Speaker.

24. ***Chi, N.-C**. (2022). Leverage Technology and Data Science to Enhance Dementia Care, Multimorbidity, Pain Management & Caregiving. Presentation for Mary S. Easton Center for Alzheimer's Research and Care at UCLA, Los Angeles, California, United States. Invited Speaker.

25. ***Chi, N.-C**. (2022). Leveraging Electronic Health Dataset to Identify Co-existing Multimorbidity Patterns in Individuals with Alzheimer's Disease. 2022 Northwestern University Pepper Center Rounds Presentation, Chicago, Illinois, United States. Invited Speaker.

26. **Chi, N.-C**. (2022). Pain Assessment in Persons with Dementia. 2022 Midwestern Conference on Health Care in the Older Adult, Iowa City, Iowa, United States. Invited Speaker.

27. ***Chi, N.-C.**, Lozier, P., Street, N., Buckwalter K., Perkhounkova, Y., Hein, M., Zhang, M., Rakel, B., Gardner, S. (2022). Multimorbidity in Patients with Alzheimer's Disease: Big Data Approaches. Midwest Nursing Research Society (MNRS), Schaumburg, Illinois, United States. Guaranteed Symposium Session. Oral Presentation.

28. ***Chi, N.-C.** (2021). Engage Family Caregivers Managing Pain for Patients with Dementia, Annual Virtual East Central Iowa Chapter Meeting, Hospice and Palliative Nurses Association, Iowa City, Iowa, United States. Invited Speaker.

29. ***Chi, N.-C.** (2019). HOspice and palliative care Pain management Enhancement (HOPE): Development of a Decision-making Tool to Support Family Caregivers in Pain Management. Joint Conference of Hospice and Palliative Care Association of Iowa (HPCAI) and the Iowa Alliance in Home Care (IAHC), Des Moines, Iowa, United States. Oral Presentation.

30. ***Chi, N.-C.**, Han, S., Barani, E., Demiris, G., Lewis, F., Walker, A., Washington, K., Parker Oliver, D. (2018). Evaluation of the Utility of a Pain Management Education Tool for Hospice Care Providers. Midwest Nursing Research Society (MNRS), Cleveland, Ohio, Oral Presentation.

31. *Alzawd, Z., Mulla, H. A., **Chi, N. -C.**, Walker, A. J., M, L. F. (2016). Mothers with cancer: Gains from the enhancing connections telephone program. Western Institute of Nursing (WIN) Research Conference, Anaheim, California, United States. Poster Presentation.

32. **Chi, N. -C.**, Belza, B., Satariano, W. (2014). Strategies for conducting a systematic review: The HAN wayfinding community project. Western Institute of Nursing (WIN) Research Conference, Seattle, Washington, United States. Poster Presentation.

33. Baik, D. W., **Chi, N. -C.**, Lee, M. K., Park, S. E., Williams, E., Voss, J. G. (2013). Paradigm shifts: Evolution of the UW PhD Nursing Program. Western Institute of Nursing (WIN) Research Conference, Anaheim, California United States. Poster Presentation.

34. ***Chi, N. -C.**, Demiris, G. (2016). Examination of the validity of a code book describing family caregivers' pain management challenges in hospice care. HMC Palliative Care Conference, Seattle, Washington United States. Poster Presentation.

35. ***Chi, N. -C.**, Demiris, G., Pike, K. C., Parker, O. D., Washington, K. T. (2015). Studying caregivers of hospice patients with dementia. HMC Palliative Care Conference, Seattle, Washington United States. Poster Presentation.

36. **Chi, N. -C.**, Belza, B., Satariano, W. (2014). Wayfinding technology for mobility in older adults: A CDC-HAN wayfinding project. Elder-Friendly Futures Conference, Seattle, Washington United States. Poster Presentation.

<div align="center">**SERVICE**</div>

Editorial Board
2021-Present   Frontiers in Pain Research: Editorial Board of Geriatric Pain

Journal Manuscript Review
2024   Western Journal of Nursing Research
2024   Frontiers in Pain Research: Editorial Board of Geriatric Pain
2023   Journal of the American Geriatrics Society
2020   Social Work in Health Care
2019-Present   American Journal of Hospice and Palliative Medicine®
2019   Journal of Applied Gerontology
2019   Evaluation & the Health Professions
2018   Heart & Lung: The Journal of Acute and Critical Care
2016, 2019   Journal of Pain and Symptom Management
2016, 2019   British Medical Journal
2015   Journal of Telemedicine and Telecare

Grant Reviewer
2023   University of Iowa, College of Nursing, Internal Grants
2022-Present   Alzheimer's Association, Research Grants
2021   Center for Nursing Classification and Clinical Effectiveness (CNC), Pilot Grants
2017   Csomay Center of Gerontological Excellence, Reviewer, Grant Proposals

Professional Membership, Service and Leadership
 Informatics
2021-2022   **Alliance for Nursing Informatics** (ANI)
                    2021-2022, Member, Health & Nursing Informatics Policy Committee
2016-2019   **American Medical Informatics Association** (AMIA), Member
                    2016-2020, Conference Reviewer
2016-2017   **Healthcare Information & Management Systems Society** (HIMSS), Member
                    2016, Conference Reviewer

Gerontology
2016-Present   **The Gerontological Society of America** (GSA), Member
                    2020, Conference Reviewer

Palliative Care
2019-2021   **American Academy of Hospice and Palliative Medicine** (AAHPM)
                    2019, Conference Reviewer
2019-2023   **Palliative Care Research Cooperative Group** (PCRC), Member
                    2021-2023, Co-chair, Early Career Investigator SIG
2019-2023   **Hospice and Palliative Nurse Association** (HPNA), Member
                    2020-2024, Member, Award Selection Committee
Nursing
2017-Present   **Midwest Nursing Research Society** (MNRS), Member
                    2020-2021, Member, Palliative Care & End of Life RIIG, Award Selection Committee
                    2021-2022, Member, Engagement Committee
                    2021-2024, Co-Chair, Health Systems, Policy and Informatics RIIG

2016-2018   **Sigma Theta Tau International Nursing Organization** (STTI), Member

Advisory Panel

June 2025

| 2023-2024 | Safety Officer, NIA-funded R21 (1R21AG078544-01, PI: Jao) - The Effect of Smart Ambient Bright Light for Nursing Home Residents with Alzheimer's Disease and Related Dementias |
| 2018 | Scientific Advisory Committee, NINR-funded R01(R01NR012213, PI: Demiris) – A Problem-Solving Intervention for Hospice Caregivers, University of Pennsylvania |

University Service
| 2023-Present | Research Council, University of Iowa |
| 2021-2024 | Family Issues Charter Committee, University of Iowa |

Collegiate Service
2023-Present	CON-Technology Committee, Co-Chair
2021-2024	CON - Council on Faculty, Member
2019-2022	CON - BSN Admission Committee, Member

Faculty Mentoring
| 2019 | Lynette Cooper, Teaching Mentor for NURS: 3518-0EXW, Pathology |
| 2020-2021 | Young-Eun Cho, Teaching Mentor for NURS: 3518-0EXW, Pathology |

Community Service - Health related community organizations and groups
2016-2017	Nursing Home Visit & Homeless Shelter Service, Tzu Chi International Foundation, Seattle, Washington, United States, Volunteer
2014-2017	Tzu Chi International Medical Association, Taiwan, Medical volunteer
2011-2012	Free Health Screening Service, UCSF Asian Health Institute, San Francisco, California, United States, Medical volunteer
2009	Typhoon Morakot Flooding, TIMA, Taiwan, Medical volunteer
2009	Free Clinic Service, TIMA, Fuchien, China, Medical volunteer
2008	Sichuan Earthquake, TIMA, Sichuan, China, Medical volunteer
2006	Jave Earthquake, TIMA, Jave, Indonesia, Medical volunteer
2005	Free Clinic Service, TIMA, Green Island, Taiwan, Medical volunteer
2004	Hospice care unit, Tzu Chi Hospital, Hualien, Taiwan, Volunteer
2000	Taiwan 921 Earthquake Relief Program, Tzu Chi International Foundation, Taiwan, Volunteer

TEACHING

Course Instruction
2019 - 2024	NURS: 3518-1001, Pathology	Guest Lecture
Fall 2018 - Present	NURS: 3518-0EXW, Pathology	Primary instructor
Fall 2017 - Spring 2018	NURS: 3518-0EXW, Pathology	Team-teacher

Mentoring and Advisement (N=29)
Undergraduate students (n=6)

Name	Advisement	Outcomes
Nursing		
Kristy Nguyen (2022-present)	Participating in my research team	Co-authored and published 1 databased manuscript about my pain app study
Zilin Zhu (2019-2021)	Participated in my research team	Co-authored and published 1 review manuscript in family caregiving
Elizabeth Scott (2019)	Participated in my research team	-
Elizabeth Summerson (2019)	Participated in my research team	Co-authored 1 poster presentation in the national GSA conference (2019)
Madison Conrad (2018)	Participated in my research team	-
Social Work		

June 2025

| Emma McWherter (2022) | Participating in my research team | - |

Graduate students (n=18)
University of Washington

Name	Advisement	Outcomes
MS students in Clinical Informatics		
Emelia Barani (2017-2019)	Advised in MS thesis; participated in my pain app research	Completed thesis defense; co-authored 2 review manuscripts, 1 databased manuscript, and 2 abstracts in pain and caregiving (all published)
Olivia Sparks (2017)	Advised in MS thesis; participated in my digital pet research	Completed thesis defense; co-authored 1 databased study in my digital pet study (all published)
Jeff Wong (2017)	Advised in MS thesis	Completed thesis defense
Nursing PhD students		
Shumenghui Zhai (2019-2023)	Advised caregiving research	1 student-led review manuscript in using technology to support caregiving (published)
Frances Chu (2019-2023)	Advised caregiving research	1 student-led review manuscript in using technology to support caregiving (published)
Soojeong Han (2017-2019)	Participated in my pain management and caregiving research	1 student-led databased manuscript (published); co-authored 3 databased manuscripts in pain management and caregiving (published) and 1 review manuscript (published)

University of Iowa

Name	Advisement	Outcomes
Students in Informatics and Computer Science		
Gabriel Vald (MS in computer science)	Collaborating in AI research	Co-authoring 1 databased manuscript in AI-powered nursing handoff project (submitted and under review)
Moaiz Abar (MS in computer science)	Collaborating in Technology and AI research	
Pui Ying Yew (PhD in Heath Informatics)	Collaborating in multimorbidity and dementia research	Co-authoring 3 databased manuscripts in multimorbidity and dementia research (1 published, 1 under review, and 1 work-in-progress)
Patrick Lozier (2020-2023, MS in Health Informatics)	Participating in my EHR research	Co-authoring 1 databased manuscripts in EHR research; and co-authored 3 conference presentations in national AAIC and NIH meetings, and regional MNRS conference (presented)
Muneeb Shahid (2020-2021; MS in Computer Science)	Participated in my pain app research	-
Education PhD students		
Victoria Maneev (2020)	Participated in my pain app research	-
Nursing PhD students		
Nanle Gusen (2024-present)	Participating in my research team	Co-authoring 2 databased manuscripts (1 in pain intervention and another one in multimorbidity)

June 2025

Dadriane Fice (2023-2024)	Participating in my pain app research	-
Angela Shanahan (2022-2024)	Participating in my pain app research	Co-authored and published 1 databased manuscript: 1 poster presentation at the national GSA meeting
Meina Zhang (2020-present)	Participating in my pain app and EHR research	1 student-led review paper in AI published in the *Journal of the American Medical Informatics Association (JIMA*; impact factor 7.9); co-authored 2 poster presentations AT national GSA and regional MNRS meetings (presented)
Brooke Porter (2020-present)	I serve as a co-advisor with Dr. Keela Herr	-
Lynn Nakad (2019-2021)	Participated in my pain app and caregiving research	Co-authored and published 1 databased manuscript and 3 review manuscripts (published); 2 published abstracts in GSA.
Saeidzadeh Seyedehtanaz (2019-2020)	Participated in my pain management and caregiving research	Co-authored 2 meta-analysis manuscripts and 1 review manuscript (published); co-authored 1 published abstract in national AAHPM conference

Commitment Member: PhD Dissertation & DNP Capstone Project (N=6)

Name	Project Name	Outcomes
College of Education, PhD		
Victoria Maneev (2020-2024)	Exploring the needs in counseling for family caregivers of patients with dementia	Completed Dissertation in 2024
College of Nursing, PhD		
Kyu Ri Lee (2024-Present)	Communication Between Staff and Residents Living with Dementia in Long-term Care Settings	Working on ISP
Yo-Jen Liao (2023-2025) (Pennsylvania State University)	Healthcare Workers' Pain Management Competency Among Residents with Dementia in Long-term Care	Completed Dissertation in 2025
Meina Zhang (2022-2025)	The Association of Rest-Activity Rhythm and Healthy Aging	Completed Dissertation in 2025
Alaa Albashayreh (2019-2022)	Evaluating Patient-Centered Outcomes in Palliative Care and Advanced Illness Using Natural Language Processing and Big Data Analytics	Completed Dissertation in 2022
College of Nursing, DNP		
Megan Riedsel (2019-2020)	Pilot testing a pain management intervention in a retirement community	Completed DNP project