

CURRICULUM VITAE

Nai-Ching Chi, PhD, RN

Assistant Professor

College of Nursing, 430 CNB, The University of Iowa

Iowa City, Iowa 52242

(319) 335-7064; nai-ching-chi@uiowa.edu

Updated 2023-04

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
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PROFESSIONAL EXPERIENCE

Academic Appointments

2017 - Present	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

HONORS AND AWARDS

2022	Emerging Leaders Award, Hospice and Palliative Nurses Foundation (HPNF) (National award)
2021	Leader Scholarship, Hospice and Palliative Nurses Foundation (HPNF) (National award)
2021	End-of-Life Nursing Education Consortium (ELNEC) Scholarship, Hospice and Palliative Nurses Foundation (HPNF) ((National award, one of 4 recipients in 2021)
2021	Scholar, NIH/NIA Butler-Williams Scholars Program (National selection)
2021	Scholar, Palliative Care Research Cooperative Group (PCRC), Dementia Palliative Care Clinical Trials Intensive (National and interdisciplinary selection)
2021	Outstanding Publication Award, Palliative & End-of-life Care Research Interest Group, Midwest Nursing Research Society (MNRS) (Regional award)
2021	Scholar, NIH/NIA-funded Advancing Geriatrics Infrastructure and Network Growth, AGING The Aging Initiative MCCs Scholars Program (National and interdisciplinary selection, one of 12 scholars in 2021)
2020	Research Scholar Award, Hospice and Palliative Nurses Association (HPNA) (National award, one of 3 scholars in 2020)
2020	New Investigator Award, Palliative & End-of-life Care Research Interest Group, Midwest Nursing Research Society (MNRS) (Regional award)
2020	Scholar, NIH/NCI-funded R25 Research Training: Harvard Medical School Workshop on Research Methods in Supportive Oncology (RMSO) (National and interdisciplinary selection)
2017	Outstanding Doctoral Graduate, University Commencement, University of Washington
2016	Retirement Association Scholarship in Aging, University of Washington (One of 6 scholars across graduate schools; \$4000)
2014	Washington State King County Nurses Association Scholarship Award (Regional award, one of 12 recipients; \$2,500)
2013	Top Scholar Award, University of Washington School of Nursing (\$27,000)
2007	Excellent Nurse Award, Taiwan Hualien County Nurses Association
2004	Excellent Student Award, Tzu Chi University
2001-2004	Tzu Chi University Presidential Award, Tzu Chi University
2003	Award of Excellent Clinical Performance, Nanly Hsu, Dean's Scholarship, Tzu Chi University

Scientific and Educational Research Grants

Extramural Research Grants

Federal

1. 2024-2028, Upgradation and Evaluation of an AI-Based Pain App to Support Family Caregivers of People With ADRD. NIH/NIA, 1 R01 AG082766-01, Nai-Ching, Chi, **Principal Investigator**. (40% for 4 years), \$3,088,654. (Under Review).
2. 2020-2022, 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), Nai-Ching, Chi, **Project Lead** (20% for 2 years), \$374,683. (Funded)
3. 2018-2023, 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), Nai-Ching, Chi, **Center Faculty Associate**, \$2,226,995. (Funded)

International Organization

1. 2022-2025, E-Tailored Pain Management Support for Dementia Family Caregivers. Alzheimer's Association, Research Grant, AARGD-22-929062, Nai-Ching, Chi, **Principal Investigator** (20% for the first 2 years and 2% for the third year), \$136,363. (Funded)

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

Intramural Research Grants

- 2019 - 2020, HOspice and palliative care Pain management Enhancement, Nai-Ching Chi, **Principal Investigator**, Old Gold Summer Fellowship, University of Iowa, \$6,000. (Completed)
- 2018 - 2021, Development of Caregivers' Barriers to Pain Management Screening Questions and Revision of the Educational Material in the Caregiver Pain Management Manual, Nai-Ching Chi, **Principal Investigator**, Csomay Center for Gerontological Excellence, Woodrow W. Morris Gerontology Research Award for Faculty, \$10,000. (Completed)
- 2015 - 2017, Pain Management Challenges for Family Caregivers in Hospice Care: An Exploratory Study and Utility Test of an Educational Tool to Support Pain Management, Nai-Ching Chi, **Principal Investigator**, Hester McLaws Dissertation Funds, University of Washington, School of Nursing, \$3,500. (Completed)

Extramural Training Grants

- 2014 – 2017, Technologies Incubation Scholarship/ a Three-year Training Grant, Nai-Ching Chi, **Principal Investigator**, Taiwan Ministry of Education, \$116,550. (Completed)

Intramural Training Grants (Scholarship and Fellowship)

- 2017, Nursing Scholarship Fund, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$1,000
- 2016, Retirement Association Scholarship in Aging, Nai-Ching Chi, recipient, University of Washington, 4,000
- 2016, Jeanne Q. Benoliel Endowed Fellowship, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$4,000
- 2016, Peter S. and Rose M. Christie Endowed Fund, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$360
- 2016, The de Tornayay Healthy Aging Center Travel Scholarship, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$500
- 2015, Benoliel Fellowship, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$4,000
- 2015, Pascoe Scholarship, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$3,000
- 2013, Hoffman Fellowship, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$3,750
- 2012, Shattuck Family Fellowship, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$7,500
- 2012, Top Scholar Award, Nai-Ching Chi, recipient, University of Washington, School of Nursing, \$27,000

SCHOLARSHIP

Publications

N=30 publications, 19 data-based, 11 first authored, 7 second authored

Google scholar citation as of 8/12/2022 =698, h-index = 12, i10-index = 15

Scopus citations as of 8/12/2022 =418, h-index = 9

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

Peer Reviewed Papers

- 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*. (Accepted) (2021 IF=1.95)

2. Zhai, S., Chu, F., Tan, M., ¹**Chi, N.-C.**, ¹Ward, T., & ¹Weichao, Y. (2023). Digital Health Tools Assisted Interventions to Support Family Caregivers: An Updated Systematic. *Digital Health*. (Accepted) (2022 IF=4.687)
3. 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*. (Revision) (2022 IF=2.577)
4. **Chi, N.-C.**, Han, S., Lin, S.-Y., Fu, Y.-K., Nakad, L., & Demiris, G. (2023). Resilience-Enhancing Interventions for Family Caregivers: A Systematic Review. *Chronic Illness*. (Revision) (2021 IF=1.43)
5. Zhang, M., Zhu, L., Lin, S.-Y., Herr, K., Chi, C.-L., Demir, I., Lopez D. K., ¹**Chi, N.-C.** (2022). Using Artificial Intelligence to Improve Pain Assessment and Pain Management: A Systematic Review. *Journal of the American Medical Informatics Association*. (Accepted) (2021 IF=7.942)
6. ***Chi, N.-C., Nakad, L.,** Han, S., Washington, K., Hagiwara, Y., Riffin, C., Parker Oliver, D., Demiris, G. (2022). Family Caregivers' Perceived Challenges to Cancer Pain Management for Patients in Palliative Care. *American Journal of Hospice and Palliative Medicine* (In Press). (5-year IF=2.379)
<https://pubmed.ncbi.nlm.nih.gov/35503240/>
7. **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* (In Press). (2021 IF=2.947)
<https://pubmed.ncbi.nlm.nih.gov/36178473/>
8. *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>
9. *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>
10. **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>
11. *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>
12. 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>
13. *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>
14. *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*

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

15. ***Chi, N.-C.**, **Han, S.**, **Barani, E.**, 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>
16. *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>
17. *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>
18. *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/>
19. ***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>
20. ***Han, C.**, **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>
21. ***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>
22. *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>
23. ***Chi, N. C.**, **Sparks, O.**, 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>
24. **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>
25. *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>
26. *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>

27. **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>
28. 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/>
29. *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>
30. **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>
31. *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

1. **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>
2. **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

1. 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>

Published Abstracts

1. **Zhang M., Zhu L., Lin S., Herr K., ¹Chi, 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)
2. ***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)
3. ***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)

4. **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)
5. **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)
6. **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)
7. *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)
8. ***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)

Submitted/under review

1. ***Chi, N.-C., Lozier, P.**, Street, N., Buckwalter K., Perkhounkova, Y., Hein, M., Zhang, M., Rakel, B., Gardner, S. Leveraging Electronic Health Dataset to Identify Co-existing Multimorbidity Patterns in Individuals with Alzheimer's Disease in the Midwestern United States. *Alzheimer's and Dementia*. (2021 IF=16.655)

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, 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

1. **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.
2. Zhang, M. N., Zhu, L. Z., 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.
3. ***Chi, N.-C., Lozier, P.**, 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.
4. ***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. The Gerontological Society of America 2020 Annual Virtual Scientific Meeting, Philadelphia, Pennsylvania, United States. Poster Presentation.
5. **Chi, N.-C., Han, S., Fu, Y.-K., Nakad, L., & 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.

6. ***Chi, N.-C., Nakad, L., Fu, Y.-K.,** 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.
7. *Gilbertson White, S., **Kamalumpundi, V., Saeidzadeh, S., 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.
8. ***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).
9. **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.
10. **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.
11. *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.
12. **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.
13. ***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.
14. *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.
15. *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

1. ***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.
2. ***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.

3. ***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.
4. **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.
5. ***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.
6. ***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.
7. ***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.
8. ***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.
9. *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.
10. **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.
11. 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.
12. ***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.
13. ***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.
14. **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.

SERVICE

Editorial Board

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

Journal Manuscript Review

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

2022 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-Present **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-Present **American Academy of Hospice and Palliative Medicine (AAHPM)**
2019, Conference Reviewer
2019-Present **Palliative Care Research Cooperative Group (PCRC)**, Member
2021-Present, Co-chair, Early Career Investigator SIG
2019-Present **Hospice and Palliative Nurse Association (HPNA)**, Member
2020-Present, 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-Present, Co-Chair, Health Systems, Policy and Informatics RIIG
2016-2018 **Sigma Theta Tau International Nursing Organization (STTI)**, Member

Advisory Panel

2018-Present Scientific Advisory Committee, NINR-funded R01(R01NR012213, PI: Demiris) –
A Problem-Solving Intervention for Hospice Caregivers, University of Pennsylvania

April 2023

2023-Present 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

University Service

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

Collegiate Service

2021-Present CON - Council on Faculty, Member
 2019-2022 CON - BSN Admission Committee, Member

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

Fall 2018 - Present NURS: 3518-0EXW, Pathology Primary instructor
 Fall 2017 - Spring 2018 NURS: 3518-0EXW, Pathology Team-teacher

Mentoring and Advisement

Mentoring

Faculty Mentoring

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

Advisement (N=23)

Undergraduate students (n=6)

Name	Advisement	Outcomes
Nursing		
Kristy Nguyen (2022-present)	Participating in my research team	Co-authoring 1 databased manuscript in my pain app study (work in progress)
Zilin Zhu (2019-2021)	Participated in my research team	Co-authoring 1 review manuscript in family caregiving (under review)
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		
Emma McWherter (2022)	Participating in my research team	-

Graduate students (n=13)

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-present)	Advising caregiving research	1 student-led review manuscript in using technology to support caregiving (accepted)
Frances Chu (2019-present)	Advising caregiving research	1 student-led review manuscript in using technology to support caregiving (accepted)
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 (revision)

University of Iowa

Name	Advisement	Outcomes
MS students in Informatics and Computer Science		
Patrick Lozier (2020-present)	Participating in my EHR research	Co-authoring 1 databased manuscripts in EHR research (under review); and co-authored 3 conference presentations in national AAIC and NIH meetings, and regional MNRS conference (presented)
Muneeb Shahid (2020-2021)	Participated in my pain app research	Co-authoring 1 databased manuscript in my pain app research (work in progress)
Education PhD students		
Victoria Maneev (2020)	Participated in my pain app research	-
Nursing PhD students		
Angela Shanahan (2022-present)	Participating in my pain app research	Co-authoring 2 databased manuscripts and 1 poster presentation for the national GSA
Meina Zhang (2020-present)	Participating in my pain app and EHR research	1 student-led review paper in AI (revision); co-authoring 1 databased manuscript in EHR research (under review); co-authored 2 poster presentations in 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 1 databased manuscript and 3 review manuscripts (published); 2 published abstracts in GSA; coauthoring 1 review manuscript and 1 databased manuscript in my pain app study (under review)
Saeidzadeh Seyedehtanaz (2019-2020)	Participated in my pain management and caregiving research	Co-authored 2 meta-analysis manuscripts and 1 review manuscript (all published); co-authored 1 published abstract in national AAHPM conference

Commitment Member: PhD Dissertation & DNP Capstone Project (n=4)

Name	Project Name	Outcomes
College of Education, PhD		
Victoria Maneev (2020-present)	Exploring the needs in counseling for family caregivers of patients with dementia	Working on dissertation
College of Nursing, PhD		
Alaa Albashayreh (2019-2022)	Evaluating Patient-Centered Outcomes in Palliative Care and Advanced Illness Using Natural Language Processing and Big Data Analytics	Completed defense
Meina Zhang (2022-present)	The Association of Rest-Activity Rhythm and Healthy Aging	Completed ISP proposal, working on ISP paper
College of Nursing, DNP		
Megan Riedsel (2019-2020)	Pilot testing a pain management intervention in a retirement community	Completed DNP project