

김애리(Aeri Kim)

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College of Nursing, Kosin University
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EDUCATION

Ph.D., Nursing, 2020 - 2024

College of Nursing, Seoul National University, Seoul, Korea

Thesis: "Gender differences in the relationship between family caregiving and subjective health: the mediating role of health promoting behaviors"

Supervisor: Prof. Kyungmi Woo

B.A., Nursing, 2002 - 2007

College of Nursing, Kyung Hee University, Seoul, Korea

LICENSE AND CERTIFICATION

Apr 2014, Registered Nurse (Wisconsin), Wisconsin Dept. of Safety and Professional Services, WI, USA

Dec 2009, Registered Nurse (New York), Office of the Professions, NY, USA

May 2007, Teacher Certification (School Nurse), Ministry of Education, Seoul, Korea

Mar 2007, Registered Nurse (Korea), Ministry of Health and Welfare, Seoul, Korea

RESEARCH INTERESTS

Nursing informatics, Text mining, Natural language processing, Palliative care and Hospice, Community health nursing, Gerontological nursing,

PROFESSIONAL EXPERIENCE

2026.03.01-Current, Assistant Professor, Kosin University, Busan, Korea

2024.09.01-2026.02.28, Senior Researcher, The Research Institute of Nursing Science, Seoul National University, Seoul, Korea

2016-2018, Registered Nurse, Select Specialty Hospital, Madison, WI, USA

2015-2016, Registered Nurse, Oakwood Village University Woods, Madison, WI, USA

2012, School Nurse, Pohang Jecheol Dong Elementary School, Pohang, Korea

2011-2012, Registered Nurse, Daeyang Luke Hospital, Lilongwe, Malawi

2010-2011, Trainee, Pohang St.Mary's Hospital, Pohang, Korea

2007-2008, Registered Nurse, Samsung Medical Center, Seoul, Korea

PUBLICATIONS (†= CORRESPONDING AUTHOR, ‡= EQUAL AUTHORSHIP)

PUBLISHED

16. Lim, D., Kim, A., Lee, H., Woo, K.† (2026). Enhancing Community-Based Nursing Decision Support: Machine Learning Models for Diabetes Risk Prediction Using Home Health Nursing Notes. *Public Health Nursing*. 0(0), 1-13. <https://doi.org/10.1111/phn.70122>
15. Kim, M., Bae, M., Lee, H., Mun, M., Woo, K., **Kim, A.**† (2026). Mapping Temporal Dynamics in Hospice Research: A Topic Modeling Analysis of PubMed Abstracts. *Journal of Palliative Medicine*. 2026;0(0). <https://doi:10.1177/10966218251411148>
14. **Kim, A.**, & Woo, K.† (2025). Public Perspectives on Palliative and Hospice Care: Social Media Content Analysis Using Topic Modeling and Multiclass Sentiment Analysis. *Journal of Medical Internet Research*, 27, e70836. <https://doi.org/10.2196/70836>
13. **Kim, A.**, & Woo, K.† (2025). The cognitive consequences of fear of falling: Assessing the mediating role of social engagement and physical activity. *Innovation in Aging*, <https://doi.org/10.1093/geroni/igaf082>
12. Woo, K.†, Min, SH., **Kim, A.**, Choi, S., Alexander, GL., O'Malley, T., Moen, MD., Topaz, M. (2025). Understanding Gender-Specific Daily Care Preferences: Topic Modeling Study. *Journal of Medical Internet Research*, 27, e64160. <https://doi.org/10.2196/64160>
11. Lee, H., **Kim, A.**, Lee, H., & Woo, K.† (2025). Contributing factors to the length of stay and discharge destination of home health care patients: 10-year electronic health record analysis using the Donabedian model. *Japan Journal of Nursing Science: JJNS*, 22(1), e12647-n/a. <https://doi.org/10.1111/jjns.12647>
10. **Kim, A.**, Jeon, E., Lee, H., Heo, H., & Woo, K.† (2024). Risk factors for prediabetes in community-dwelling adults: A generalized estimating equation logistic regression approach with natural language processing insights. *Research in Nursing & Health*, 47(6), 620-634. <https://doi.org/10.1002/nur.22413>
9. Mun, M., **Kim, A.**, & Woo, K.† (2024). Natural Language Processing Application in Nursing Research: A Study Using Text Network Analysis and Topic Modeling. *CIN: Computers, Informatics, Nursing*, 42(12), 889-897. <https://doi.org/10.1097/CIN.0000000000001158>

8. **Kim, A.**, Choi, S., & Woo, K.† (2024). Navigating the Landscape of Telemedicine Research: A Topic Modeling Approach for the Present and Future. *Telemedicine and e-Health*, 30(5), 1378-1393. <https://doi.org/10.1089/tmj.2023.0523>
7. Kim, E., Yoon, J. Y., Woo, K., **Kim, A.**, Kim, H., & Lee, J.† (2023). Development and evaluation of a problem-based learning simulation module for home-visit nursing. *Public Health Nursing*, 40(6), 857-867. <https://doi.org/10.1111/phn.13244>
6. Hwang, J., Lee, H., **Kim, A.**, & Woo, K.† (2023). Understanding the Current Trend of Home Care Assessment in the Post-COVID-19 Era by Comparing Outcome and Assessment Information Set (OASIS)-D and E. *Journal of Korean Academic Society of Home Health Care Nursing*, 30(1), 105-114. <http://doi:10.22705/jkashcn.2023.30.1.105>
5. Jeon, E.‡, **Kim, A.**‡, Lee, J., Heo, H., Lee, H., & Woo, K.† (2023). Developing a Classification Algorithm for Prediabetes Risk Detection From Home Care Nursing Notes: Using Natural Language Processing. *CIN: Computers, Informatics, Nursing*, 41(7), 539-547. <https://doi.org/10.1097/CIN.0000000000001000> (Jean E. and Kim A. contributed equally to this work.)
4. Lee, H., **Kim, A.**, Heo, H., Lee, J., & Woo, K.† (2023). Examining Characteristics and Service Utilization of South Korean Home Health Care Patients: Secondary Analysis of 10-Year Data From a Tertiary Hospital. *Home Health Care Management & Practice*, 35(1), 21-30. <https://doi.org/10.1177/10848223221099603>
3. Lee, H.†, **Kim, A.**, & Choi, S. (2022). A systematic Review of the Effects of Physical Activity on Depression in Community-dwelling Older Adults: Using the Neuman System Model. *Health and Social Welfare Review*, 42(1), 356-373. <https://dx.doi.org/10.15709/hswr.2022.42.1.356>
2. **Kim, A.**, & Woo, K.† (2022). Gender differences in the relationship between informal caregiving and subjective health: the mediating role of health promoting behaviors. *BMC Public Health*, 22(1), 311-311. <https://doi.org/10.1186/s12889-022-12612-3>
1. **Kim, A.**, Kim, J., & Woo, K.† (2021). Perceived Social Support of Family Caregivers for People with Dementia: Concept Analysis. *Journal of Korean Academy of Community Health Nursing*, 32(4), 540. <https://doi.org/10.12799/jkachn.2021.32.4.540>

UNDER REVIEW

2. Bae, M., Kim, M., **Kim, A.**, Lee, H., & Woo, K.† Mapping the Evolution of Home Health Care Research Using Topic Modeling: Implications Across Research, Practice, and Policy. (Under review at *Journal of Community Health*)

1. Choi, S., **Kim, A.**, Park, J., & Woo, K.† Palliative and Hospice Care Mobile Applications for Community: A Comprehensive Review. (Under review at ***International Journal of Palliative Nursing***)

IN PREPARATION

10. **Kim, A.**, Bae, M., Kim, M.S., & Woo, K.† Development of an Automated Hospice Eligibility Screening Algorithm Using Large Language Models and Electronic Health Records. (Target: ***Journal of Medical Internet Research***)
9. **Kim, A.**, Kim, M.S., Lee, H., Bae, M., & Woo, K.† End-of-Life Care Need Patterns in Home Nursing Consultations: A Natural Language Processing and Latent Class Analysis Study. (Target: ***BMC Nursing***)
8. **Kim, A.**, Lee, H., Bae, M., Kim, M.J., & Woo, K.† Longitudinal Risk Factors for Hospice Transition Among Home Care Patients: A Cohort Study. (Target: ***JMIR Nursing***)
7. **Kim, A.**, Bae, M., Kim, M.J., Lee, H., & Woo, K.† Fine-Tuning and Evaluation of Large Language Models for Correcting Korean Medical Automatic Speech Recognition Errors. (Target: ***Journal of the American Medical Informatics Association***)
6. **Kim, A.**, Lee, Y.J., Lee, J., Bae, M., Kim, M.J., Kim, S.H., Choi, Y.S.,† & Woo, K.† Translation and Cultural Validation of SPICT in Korean: Using Large Language Model. (Target: ***JAMA Network Open***)
5. **Kim, A.**, & Woo, K.† Social disconnection, gender, and frailty among older adults: A comprehensive assessment of different types of social disconnection. (Target journal: ***Age and Ageing***)
4. **Kim, A.**, Choi, S., Lee, H., Woo, K.† Community-Based Hospice and Palliative Care Referral Screening Tool: a PRISMA-COSMIN Systematic Review. (Target Journal: ***Nursing Outlook***)
3. **Kim, A.**, Lee, H., Lee, J., & Woo, K.†. Effects of Home Care Services for Older Adults in East Asia: A Systematic Review and Meta-Analyses. (Target Journal: ***Asian Nursing Research***)
2. **Kim, A.**, Shin, J., & Yoon, J. Y.†. Risk factors of unplanned hospital readmissions among aged 45 and above in community. (Target journal: ***International Journal of Nursing Studies***)
1. **Kim, A.**, & Woo, K.† Impact of Long-Term Care Insurance on the Health and Life Satisfaction of Beneficiaries Among Community-Dwelling Older Adults. (Target journal: ***The Gerontologist***)

RESEARCH EXPERIENCE

Project Number	Funding Sources	Project Title	Principal investigator	Participation Period
RS-2026-2549806 7	National Research Foundation of Korea (NRF) grant funded by the Korean government (MSIT)	Development of a Palliative and Hospice Nursing Education Platform Utilizing Large Language Model (LLM)-Based Virtual Patient Personas and Voice-Dialogue Simulation	Kim, Aeri	2026.03.01-current
RS-2024-0033467 2	National Research Foundation of Korea (NRF) grant funded by the Korean government (MSIT)	“Right to die at home™” - Development and evaluation of a mobile app equipped with customized screening tools and algorithms for end-of-life care (palliative care and hospice) referrals for homecare patients: Use of artificial intelligence Audio-To-Text technology and Natural Language Processing	Woo, Kyungmi	2024.04.01-current
810-2021 0012	National Research Foundation of Korea (NRF) grant funded by the Korean government (MSIT)	Early detection of diabetes high-risk patients using homecare nursing notes	Woo, Kyungmi	2021.03.01-2024.02.29
810-2021 0020	Seoul National University Campus support	Developing and evaluating a simulation program for nursing students	Yoon, Ju Young	2021.06.01-2021.12.31

TEACHING EXPERIENCE

Years	Courses	Institution
Spring, 2026	Undergraduate <ul style="list-style-type: none"> • Human Physiology • Nursing English • Adult Health Nursing • Nursing Simulation Practicum 	College of Nursing, Kosin University
2025	Lectural: 2025 Summer Academic Workshop (2025년 하계 교수법 학술워크숍) Zero-Coding Natural Language Processing Theory and Practice Workshop: Utilizing KNIME (Zero-coding 자연어 처리 이론 및 실습 워크숍:KNIME 활용)	The Korean Academic Society of Nursing Education (한국간호교육학회)
2022	Teaching Assistant: Home Visiting Health Care and Case Management (Graduated level course) M2186.000600, Spring 2022	College of Nursing, Seoul National University
2022	Teaching Assistant: Health Promotion across the life-course (Undergraduate level course) M1991.003100, Spring 2022	College of Nursing, Seoul National University

TRAINING

Year	Topic	Institution
2025.03.31-2025.04.30	Apple Foundation Program@POSTECH	Apple Developer Academy@POSTECH
2024.05.04-2024.05.25	Qualitative Study Using Interview Data	Korea Social Science Data Archive
2022.08.24-2022.08.25	3th Medical Terminology Standards Advanced Course	Korea Human Resource Development Institute for Health & Welfare
2021.06.21-2021.08.13	AI Advanced: Utilizing AI Technology (Advanced Language Course)	National IT Industry Promotion Agency

COMPUTER SKILLS

STATA, Python, R, KNIME, Microsoft Office (Word, Excel, and Power Point)

PRESENTATIONS

16. **Kim, A.**, Woo, K.[†] (2025, August 9 - August 13). Exploring Public Perceptives on Palliative and Hospice Care in Social Media: Topic Modeling and Multi-Class Sentiment Analysis. Oral presentation for *the 20th World Congress on Medical and Health Informatics: MEDINFO2025*
15. Woo, K.[†], Min, SH., **Kim, A.**, Choi, S., Alexander, GL., O'Malley, T., Moen, MD., Topaz, M. (2025, August 9 - August 13). Understanding Gender-Specific Daily Care Preferences for Person-Centered Care: A Topic Modeling Study. Poster presentation for *the 20th World Congress on Medical and Health Informatics: MEDINFO2025*
14. Choi, S., **Kim, A.**, Park, J.E., Woo, K.[†] (2025, August 9 - August 13). Palliative and Hospice Care Mobile Applications: A Comprehensive Review and Recommendations. Poster presentation for *the 20th World Congress on Medical and Health Informatics: MEDINFO2025*
13. **Kim, A.**, Choi, S., & Woo, K.[†] (2025, August 9). Navigating the Landscape of Telemedicine Research: A Topic Modeling Approach for the Present and Future. Oral presentation for **2025 Seoul National University & National Taiwan University Nursing Joint Research Seminar: Data, Dignity, and Dying: Informatics for End-of-Life Care in the Community**
12. **Kim, A.** (2024, June 19 - 21). Telehealth Topic Modeling: Zero-coding Strategies with KNIME. Symposiums presentation for **2024 Spring Conference of the Korean Society of Medical Informatics.**
11. Lim, D., **Kim, A.**, Lee, H., & Woo, K.[†] (2023, November 29 - December 1). Machine Learning Models predict Diabetes Risk in Home Health Nursing patents based on Patient-reported Prediabetes-symptoms in Nursing Notes: A Retrospective Cohort Study. Poster presentation for **2023 Fall Conference of the Korean Society of Medical Informatics.**
10. **Kim, A.**, Choi, S., & Woo, K.[†] (2023, November 29 - December 1). Navigating the Landscape of Telemedicine Research: A Topic Modeling Approach for the Present and Future. Poster presentation for **2023 Fall Conference of the Korean Society of Medical Informatics.**
9. Lee, H., **Kim, A.**, Lee, H.Y., & Woo, K.[†] (2023, November 2-3). Factors influencing length of stay and discharge destination in home health care patients: 10-year electronic medical records analysis using the Donabedian model. Poster presentation for **2023 International Nursing Conference.**

8. Hwang, J., Lee, H., **Kim, A.**, & Woo, K.† (2022, December 15). Understanding the Current Trend of Home Care Assessment in the Post-COVID-19 Era by Comparing Outcome and Assessment Information Set (OASIS)-D and E, E-poster presentation for **2022 Winter Conference of Korean Academy Community Health Nursing**.
7. **Kim, A.**, Jeon, E., Lee, H., Heo, H., Lee, J., & Woo, K.† (2022, November 5-9). Gleaning Prediabetes Risk and Associated Factors from Homecare Nursing Notes Using Natural Language Processing, Poster presentation for **AMIA 2022 Annual Symposium**.
6. **Kim, A.**, Lee, H., Lee, J., & Woo, K.† (2022, October 14). Effects of Home Care Services for Older Adults in East Asia: A Systematic Review and Meta-Analyses, Poster presentation for **the 14th International Nursing Research Conference**.
5. Jeon, E., **Kim, A.**‡, Lee, J., Heo, H., Lee, H., & Woo, K.† (2022, May 24-26). Developing Classification Model for Prediabetes Risk Detection from Homecare Nursing Notes using Natural Language Processing, Poster presentation for **AMIA 2022 Clinical Informatics Conference**.
4. Lee, H., **Kim, A.**, Heo, H., Lee, J., & Woo, K.† (2022, April 21-22). Characteristics of Home Health Care Patients in South Korea: Analysis of 10 Years Data from a Major Tertiary Hospital. E-Poster presentation for **the 25th East Asian Forum of Nursing Scholars 2022**.
3. **Kim, A.**, Kim, J., & Woo, K.† (2021, December 16) Perceived social support of family caregiver for people with dementia: Concept analysis, E-poster presentation for **2021 Winter Conference of Korean Academy Community Health Nursing**.
2. **Kim, A.**, & Woo, K.† (2021, November 10-14). Gender Differences in the Link Between Informal Caregiving and Subjective Well-Being, E-poster presentation for **The Gerontological Society of America (GSA) 2021 Annual Scientific Meeting**.
1. Kim, E., Yoon, Y. J., Woo, K., **Kim, A.**, Kim, H., & Lee, J.† (2021, October 20-21). Development and evaluation of problem-based learning simulation for nursing students: A home visiting nursing simulation module. Conference presentation. **13th International Nursing Conference**.

GRANTS AND AWARDS

RESEARCH GRANTS

2026 Sejong Science Fellowship (Domestic Track), National Research Foundation of Korea (NRF)

- 2026.03.01.-2031.02.28.
- 582,234,000 Won
- Development of a Palliative and Hospice Nursing Education Platform Utilizing Large Language Model (LLM)-Based Virtual Patient Personas and Voice-Dialogue Simulation

2023 Seoul National University Student Research Grant. Research Institute of Nursing Science

- 500,000 Won
- Natural Language Processing Trends in Nursing Research: Text Network Analysis and Topic Modeling

2020 Seoul National University Student Research Grant. Research Institute of Nursing Science

- 1,000,000 Won
- A concept analysis of perceived social support of family caregiver for people with dementia

HONORS AND AWARDS

2025 Certificate of Appreciation, Recognition outstanding contribution to The Joint Research Seminar between Seoul National University and SON, National Taiwan University, 9th August 2025

2025 2024 *Research in Nursing & Health* Best Paper, Risk factors for prediabetes in community-dwelling adults: A generalized estimating equation logistic regression approach with natural language processing insights. *Research in Nursing & Health*, 25 February 2025

2023 Best Post Award, Machine Learning Models predict Diabetes Risk in Home Health Nursing patents based on Patient-reported Prediabetes-symptoms in Nursing Notes: A Retrospective Cohort Study. Poster presentation for 2023 Fall Conference of the Korean Society of Medical Informatics, 29 November - 1 December 2023

2022 'Nursing Simulation Scenario' Award by the Korean Society Nursing Science: "Public health centers-led home visiting healthcare services for older adults living alone: Preventing frailty and managing chronic disease"

2022 4th Brain Korea 21 Colloquium Excellent Graduate Student, Brain Korea 21 Four SNU For Graduate Research and Education Advancing Tomorrow, Seoul National University

2021 Best Post Award, Perceived social support of family caregiver for people with dementia: Concept analysis, E-poster presentation for 2021 Winter Conference of Korean Academy Community Health Nursing, 16 December 2021

SCHOLARSHIP

Spring 2024. Brain Korea 21 Enhancing Diversity in Graduate Education Fellowship, 15,000,000 Won (\$ 11,507)

- Acknowledged as an outstanding research talent graduate student for the semester

Spring 2024. School of Nursing Scholarship, 522,000 Won (\$ 393)

Fall 2023. Brain Korea 21 Enhancing Diversity in Graduate Education Fellowship, 15,000,000 Won (\$ 11,507)

- Acknowledged as an outstanding research talent graduate student for the semester

Fall 2023. Merit-based scholarship (full amount), 3,802,000 Won (\$ 2,917)

Fall 2022. Brain Korea 21 Enhancing Diversity in Graduate Education Fellowship, 9,960,000 Won (\$ 7,641)

- Acknowledged as an outstanding research talent graduate student for the semester

Spring 2022. Brain Korea 21 Enhancing Diversity in Graduate Education Fellowship, 9,960,000 Won (\$ 7,641)

- Acknowledged as an outstanding research talent graduate student for the semester

Fall 2021. Brain Korea 21 Four (Graduate study support), 8,300,000 Won (\$ 6,367)

Spring 2021. Brain Korea 21 Four (Graduate study support), 4,200,000 Won (\$ 3,222)

Fall 2020. School of Nursing Alumni Association Scholarship, 400,000 Won (\$ 307)

Fall 2020. Brain Korea 21 Four (Graduate study support), 4,200,000 Won (\$ 3,222)