

CURRICULUM VITAE

Name: Young Ji Lee, PhD, MSN, RN

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EDUCATION

Undergraduate

3/2003 – 8/2007 Seoul National University B.S.N. Nursing
Seoul, Korea (ROK)

Graduate

9/2007 – 5/2009 University of Maryland M.S.N. Nursing Informatics
Baltimore, MD

9/2010 – 7/2013 Columbia University Ph.D. Nursing
New York, NY (Specialty: Nursing Informatics)

APPOINTMENTS AND POSITIONS

Academic

1/2008 – 6/2009 University of Maryland School of Nursing Graduate Research Assistant
Maryland, MD

10/2009 – 7/2010 Seoul National University College of Nursing Nursing Informatics
Seoul, Korea (ROK) researcher

9/2010 – 5/2013 Columbia University School of Nursing Teaching assistant
New York, NY

9/2010 – 7/2013 Columbia University School of Nursing Research Assistant
New York, NY

8/2013 – 3/2014 University of Illinois at Chicago Department of Postdoctoral Research
General Internal Medicine Associate
Chicago, IL

3/2014 – 4/2015 Northwestern University Department of Postdoctoral Research Fellow
Preventive Medicine
Chicago, IL

5/2015 – Present University of Pittsburgh School of Nursing Assistant Professor (Primary)
Department of Health and Community System
Pittsburgh, PA

5/2015 – Present	University of Pittsburgh School of Medicine Department of Biomedical Informatics Pittsburgh, PA	Assistant Professor (Secondary)
5/2015 – 4/2016	Northwestern University Department of Preventive Medicine Chicago, IL	Adjunct Assistant Professor
7/2016 – Present	Clinical and Translational Science Institute University of Pittsburgh Pittsburgh, PA	Affiliate Faculty
12/2017– Present	University of Pittsburgh Cancer Institute University of Pittsburgh Pittsburgh, PA	Affiliate Faculty

Non-Academic

10/2006– 1/2007	INFINITT Healthcare (medical informatics company) Seoul, Korea (ROK)	Program Analyst (Internship)
1/2009–5/2009	Johns Hopkins Hospital Maryland, MD	Program Analyst (Practicum)

LICENSURE AND CERTIFICATION

Expires 4/30/18	RN Licensure	RN 669057	Pennsylvania
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MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2007 – present	Sigma Theta Tau International Honor Society of Nursing
2008 – present	American Medical Informatics Associations
2008 – present	Healthcare Information and Management Systems Society
2017 – present	American Society of Clinical Oncology
2017 – present	Oncology Nursing Society
2017 – present	American Nurses Association
2017 – present	American Nursing Informatics Associations

HONORS

2007	Summa Cum Laude, School of Nursing, Seoul National University, Seoul, Korea (ROK)
2007 – Present	Sigma Theta Tau International Honor Society of Nursing Member
2009	Who's Who among Students in American University & Colleges
2015	Postdoctoral Professional Development Travel Award, Northwestern University, Chicago, IL

SCHOLARSHIPS

2003 – 2006 Honored Student Scholarship, Seoul National University, Seoul, Korea (ROK)

PUBLICATIONS

Refereed Articles (♦ = data-based)

1. ♦ Park HA, Min YH, Kim Y, Lee MK, **Lee YJ**. Development of Detailed Clinical Models for Nursing Assessments and Nursing Interventions. *Healthcare Informatics Research*. 2011;17(4): 244-252.
2. ♦ Sheehan B, **Lee YJ**, Rodriguez M, Tiase V, Schnall R. A Comparison of Usability Factors of Four Mobile Devices for Accessing Healthcare Information by Adolescents. *Applied Clinical Informatics*. 2012;3(4): 356-366.
3. ♦ **Lee YJ**, Boden-Albala B, Leigh Q, Adam W, Bakken S, Weng C. Predictors of Health Information- Seeking Behaviors in Hispanics. 11th International Congress on Nursing Informatics Proceedings. 2012:243-247.
4. ♦ Okoniewski A, **Lee YJ**, Rodriguez M, Low A, Schnall R. Health Information Seeking Behaviors of Ethnically Diverse Adolescents. *Journal of Immigrant and Minority Health*. 2014; 16(4):652-60.
5. ♦ **Lee YJ**, Boden-Albala B, Larson E, Wilcox A, Bakken S. Online Health Information Seeking Behaviors of Hispanic in New York City. *Journal of Medical Internet Research*; 2014;16(7):e176
6. ♦ **Lee YJ**, Boyd AD, Li J, Gardeux V, Kenost C, Li H, Krishnan JA, Lussier YA. COPD Hospitalization Risk Increased with Distinct Patterns of Multiple Systems Comorbidities Unveiled by Network Modeling. American Medical Informatics Association 2014 Annual Symposium. 2014; 855-864. [Podium presentation. American Medical Informatics Association Symposium 2014. November, 2014. Washington D.C.].
7. ♦ Soulakis ND, Carson MB, **Lee YJ**, Schneider DH, Skeehan CT, Scholtens DM. Visualization of multidisciplinary, collaborative care for hospitalized heart failure patients. *Journal of American Medical Informatics Association*. 2015;22(2):299-311.
8. ♦ **Lee YJ**, Boden-Albala B, Jia H, Larson E, Wilcox A, Bakken S. The Association between Online HISBs and Health Behaviors among Hispanics in New York City. *Journal of Medical Internet Research*; 2015;17(11):e261
9. ♦ Kricke G, Carson M, **Lee YJ**, Benacka C, Soulakis N. Leveraging Electronic Health Record Documentation for Failure Mode and Effects Analysis Team Identification on an Inpatient Cardiology Unit. *Journal of American Medical Informatics Association*; 2017; 24(2): 288-294.
10. Han J, **Lee YJ**, Demiris G. Interventions Using Social Media for Cancer Prevention and Management: A Systematic Review. *Cancer Nursing*. [Epub ahead of print]
11. **Lee YJ**, Arida J, Donovan H. The Application of Crowdsourcing Approaches to Cancer Research: A Systematic Review. *Cancer Medicine*. [Epub ahead of print]

12. ♦ Han S, Kim D, Shivakumar M, **Lee YJ**, Garg T, Kim J, Kim D, Lee Y. Diversity of miRNA Binding Exons in 3' UTRs and the Correlation of miRNA-Mediated mRNA Repression vis-à-vis Clinical Outcomes in Bladder Cancer. PLOS One. In Press.
13. ♦ Kim DW, Shivakumar M, Sinclair M, **Lee YJ**, Olufunmilayo O, Kim DK, Lee YH. Racial dependent intron retention and DNA methylation in breast cancer. Molecular Cancer Research. In Press.

Published Abstracts

1. Co M, **Lee YJ**, Lucero R. The Use of an Electronic Workflow Solution in Community-based Research. Proceedings of the American Medical Informatics Association Symposium 2011: 1722. [Poster presentation. American Medical Informatics Association Symposium 2011. October, 2011. Washington D.C.].
2. **Lee YJ**, Johnson S, Trembowelski S, Schnall R, Sheehan B, Bakken S. Cognitive walkthrough evaluation of an investigator profiles directory. Proceedings of the American Medical Informatics Association Symposium 2011: 1853. [Poster presentation. American Medical Informatics Association Symposium 2011. October, 2011. Washington D.C.].
3. Schnall R, Okoniewski A, **Lee YJ**, Rodriguez M. An Ecological Momentary Assessment of the Health Information Needs of Adolescents. Proceedings of the American Medical Informatics Association Symposium 2012: 1932. [Poster presentation. American Medical Informatics Association Symposium 2012. November, 2011. Chicago, IL].
4. **Lee YJ**, Boland M, Bakken S, Weng C. Ontology Alignment for Linking a Homegrown Research Networking System to VIVO: Findings and Implications for Standards Development. AMIA Clinical Research Informatics Summit 2013:99. [Poster presentation. AMIA Clinical Research Informatics Summit 2013. March, 2013. San Francisco, CA].
5. **Lee YJ**, Bakken S. Online Health Information Seeking Behaviors among Hispanics. American Medical Informatics Association Annual Symposium 2013: 854. [Poster presentation. American Medical Informatics Association Symposium 2013. November, 2013. Washington D.C.].
6. **Lee YJ**. The Association between Numeracy Component of Health Literacy and Online Health Information Seeking Behavior. American Medical Informatics Association 2014 Annual Symposium. 2014; 1487. [Poster presentation. American Medical Informatics Association Symposium 2014. November, 2014. Washington D.C.].
7. Soulakis N, Carson M, Gravenor S, Dresden S, **Lee YJ**, Courtney DM. An Outcome-weighted Collaborative Network for Modeling Patient Satisfaction in the Emergency Department. Academic Emergency Medicine. 2015, 22: S69-S70. [Poster presentation. Society for Academic Emergency Medicine Annual Meeting 2015. May, 2015. San Diego, CA].
8. Kircke G, Carson M, **Lee YJ**, Soulakis N. Improving Failure Mode and Effects Analysis through Electronic Health Record-Assisted Team Identification. American Medical Informatics Association 2015 Annual Symposium; 1688. [Poster presentation. American Medical Informatics Association Symposium 2015. November, 2015. San Francisco, CA].

9. Carson M, Frailey C, Gravenor S, **Lee YJ**, Scholtens D, Soulakis N. A graph data model facilitates analysis of collaboration in an emergency department. American Medical Informatics Association 2015 Annual Symposium; 1432. [Poster presentation. American Medical Informatics Association Symposium 2015. November, 2015. San Francisco, CA.].
10. **Lee YJ**, Benecka C, Carson M, Kricke G, Kansal P, Soulakis N. Understanding the Complexity of Discharge Planning in the Inpatient Cardiology Unit. American Medical Informatics Association 2015 Annual Symposium; 1549. [Poster presentation. American Medical Informatics Association Symposium 2015. November, 2015. San Francisco, CA.].
11. Kricke G, Carson M, **Lee YJ**, Benacka C, Ahmad F, Mutharasan RK, Kansal P, Yancy C, Anderson A, Soulakis N. Leveraging Electronic Health Record Documentation for Failure Mode and Effects Analysis Team Identification on an Inpatient Cardiology Unit. Circulation: Cardiovascular Quality and Outcomes. 2016;9:A215. [Poster presentation. American Heart Association. Quality of Care and Outcomes Research 2016. February, 2016. Phoenix, AZ].
12. **Lee YJ**, Donovan H. Application of Text Mining in Cancer Symptom Management. Stud Health Technol Inform. 2016;225:930-1. [Poster presentation. 13th International Congress in Nursing Informatics. June, 2016. Geneva, Switzerland].
13. Chung SJ, **Lee YJ**. An Application of Machine Learning for the Identification of Adolescent Smoking Risk Factors. [Poster presentation. Sigma Theta Tau International's 28th International Nursing Research Congress. June, 2017. Dublin, Ireland]
14. Han J, **Lee YJ**, Demiris G. Interventions Using Social Media for Cancer Prevention and Management: A Systematic Review. [Poster presentation. ONS 42nd Annual Congress. May, 2017. Denver, CO]
15. **Lee YJ**, Park A, Roberge M, Donovan H. Understanding Ovarian Cancer Symptoms from Patients' Perspective: A Topic Modeling Approach; 2017 American Medical Informatics Association Annual Symposium. Accepted. [Poster presentation. American Medical Informatics Association Symposium 2017. November, 2017. Washington D.C.].

RESEARCH

Research Grants (Funded)

- Role: Principal Investigator 8/2015 – 7/2018
Type: School of Nursing Pilot Research Fund
Funding Agency: Ruth Perkins Kuehn Research Award
Title: Applying Network Analysis to Big Social Data to Understand Patterns of Symptoms and Unmet Needs Among Ovarian Cancer Survivors
Award: \$19,102 (direct cost)
- Role: Pilot Study Principal Investigator 9/2015 – 9/2017
(PI: Kathleen McTigue, MD, MPH)
Type: PCORnet, the National Patient-Centered Clinical Research Network
Funding Agency: Patient-Centered Outcomes Research Institute (PCORI)
Title: Development of Patient-Centered Infographic through Crowdsourcing Approach
Award: \$19,591 (Total: \$9,765,055)

Role: Co-Investigator 8/2017 – 7/2018
(PI: Heidi Donovan, PhD, RN)
Type: RPCI-UPCI Ovarian Cancer SPORE Award
Funding Agency: Rosewell Park Cancer Institute
Title: Provider and Patient Influences an Adherence to Standard of Care Treatment for Ovarian Cancer across the UPMC Catchment Area
Award: \$40,000

Role: Principal Investigator 1/2018 – 12/2018
Type: Center for Research and Evaluation Pilot/Feasibility Program
Funding Agency: School of Nursing, University of Pittsburgh
Title: Development of Computational Model to Identify Linguistic Markers of Symptom Management Strategies
Award: \$15,000

Research Grant (Pending)

Role: Principal Investigator
Type: R21
Funding Agency: NIH, NCI, R21 R21CA231644
Title: Development of Personalized Symptom Management Prediction Model for Cancer Patients
Proposed award: \$ 417,074.00 (direct cost)

Role: Principal Investigator
Type: R01
Funding Agency: NIH, NCI, R01 R01CA229545
Title: Development of Personalized Ovarian Cancer Assistant (POCA)
Proposed award: \$ 1,125,960 (direct cost)

Role: Principal Investigator
Type: Pilot study
Funding Agency: University of Pittsburgh Medical Center – Hillman Cancer Center
Title: Utilizing Big Data Analytics to Understand Racial Disparity in 5-year Breast Cancer (BC) Outcomes
Proposed award: \$ 50,000

Research Grants (Not funded)

Role: Principal Investigator (Priority Score 50; not funded)
Type: R21
Funding Agency: NIH, NINR, R21 NR016803-01A1
Title: Development of Personalized Symptom Amelioration Prediction Model for Cancer Patients
Propose award: \$ 275,000 (direct cost)

Role: Principal Investigator (Priority Score 51; not funded)
Type: R21
Funding Agency: NIH, NINR, R21 NR016803-01
Title: Development of Personalized Symptom Amelioration Prediction Model for Cancer Patients
Propose award: \$ 275,000 (direct cost)

Additional Research Activities

Role: Research Assistant
(PI, Suzanne Bakken, PhD, RN, FAAN, FACMI)
Type: P30 NR010677
Funding Agency: NIH, NINR
Title: Center for Evidence-based Practice in the Underserved

Dates: 9/2010 – 6/2012

Role: Research Assistant
(PI, Suzanne Bakken, PhD, RN, FAAN, FACMI)
Type: R01 HS019853
Funding Agency: AHRQ
Title: Washington Heights Inwood Informatics Infrastructure Comparative Effectiveness Research (WICER)

Dates: 7/2012 – 7/2013

PRESENTATIONS

International

(International presentations with published abstracts were listed under Published Abstracts.)

1. **Lee YJ**, Park HA, Min YH, Kim Y, Lee MK. Development and Validation of Core Concept Hierarchy for Pain. Podium Presentation. The China-Japan-Korea Medical Informatics Fall Conference 2009. October, 2009. Daejeon, Korea.
2. Co M, **Lee YJ**, Lucero R. The Use of an Electronic Workflow Solution in Community-based Research. Poster presentation. American Medical Informatics Association Symposium 2011. October, 2011. Washington D.C.
3. **Lee YJ**, Johnson S, Trembowelski S, Schnall R, Sheehan B, Bakken S. Cognitive walkthrough evaluation of an investigator profiles directory. Poster presentation. American Medical Informatics Association Symposium 2011. October, 2011. Washington D.C.
4. Schnall R, Okoniewski A, **Lee YJ**, Rodriguez M. An Ecological Momentary Assessment of the Health Information Needs of Adolescents. Poster presentation. American Medical Informatics Association Symposium 2012. November, 2011. Chicago, IL.
5. **Lee YJ**, Boland M, Bakken S, Weng C. Ontology Alignment for Linking a Homegrown Research Networking System to VIVO: Findings and Implications for Standards Development. Poster presentation. AMIA Clinical Research Informatics Summit 2013. March, 2013. San Francisco, CA.
6. **Lee YJ**, Bakken S. Online Health Information Seeking Behaviors among Hispanics. Poster presentation. American Medical Informatics Association Symposium 2013. November, 2013. Washington D.C.
7. **Lee YJ**. The Association between Numeracy Component of Health Literacy and Online Health Information Seeking Behavior. Poster presentation. American Medical Informatics Association Symposium 2014. November, 2014. Washington D.C.
8. **Lee YJ**, Boyd AD, Li J, Gardeux V, Kenost C, Li H, Krishnan JA, Lussier YA. COPD Hospitalization Risk Increased with Distinct Patterns of Multiple Systems Comorbidities Unveiled by Network Modeling. Podium presentation. American Medical Informatics

Association Symposium 2014. November, 2014. Washington D.C.

9. Soulakis N, Carson M, Gravenor S, Dresden S, **Lee YJ**, Courtney DM. An Outcome-weighted Collaborative Network for Modeling Patient Satisfaction in the Emergency Department. Poster presentation. Society for Academic Emergency Medicine Annual Meeting 2015. May, 2015. San Diego, CA.
10. Kircke G, Carson M, **Lee YJ**, Soulakis N. Improving Failure Mode and Effects Analysis through Electronic Health Record-Assisted Team Identification. Poster presentation. American Medical Informatics Association Symposium 2015. November, 2015. San Francisco, CA.
11. Carson M, Frailey C, Gravenor S, **Lee YJ**, Scholtens D, Soulakis N. A graph data model facilitates analysis of collaboration in an emergency department. Poster presentation. American Medical Informatics Association Symposium 2015. November, 2015. San Francisco, CA.
12. **Lee YJ**, Benecka C, Carson M, Kricke G, Kansal P, Soulakis N. Understanding the Complexity of Discharge Planning in the Inpatient Cardiology Unit. Poster presentation. American Medical Informatics Association Symposium 2015. November, 2015. San Francisco, CA.
13. Kricke G, Carson M, **Lee YJ**, Benacka C, Ahmad F, Mutharasan RK, Kansal P, Yancy C, Anderson A, Soulakis N. Leveraging Electronic Health Record Documentation for Failure Mode and Effects Analysis Team Identification on an Inpatient Cardiology Unit. Poster presentation. American Heart Association. Quality of Care and Outcomes Research 2016. February, 2016. Phoenix, AZ.
14. **Lee YJ**, Donovan H. Application of Text Mining in Cancer Symptom Management. Poster presentation. 13th International Congress in Nursing Informatics. June, 2016. Geneva, Switzerland.
15. Yoon S, Odlum M, **Lee YJ**. Analytic Strategies of Streaming Data for eHealth. Tutorial. 13th International Congress in Nursing Informatics. June, 2016. Geneva, Switzerland.
16. Chung SJ, **Lee YJ**. An Application of Machine Learning for the Identification of Adolescent Smoking Risk Factors. Poster presentation. Sigma Theta Tau International's 28th International Nursing Research Congress. June, 2017. Dublin, Ireland
17. Han J, **Lee YJ**, Demiris G. Interventions Using Social Media for Cancer Prevention and Management: A Systematic Review. Poster presentation. ONS 42nd Annual Congress. May, 2017. Denver, CO.
18. **Lee YJ**, Park A, Roberge M, Donovan H. Understanding Ovarian Cancer Symptoms from Patients' Perspective: A Topic Modeling Approach; 2017 American Medical Informatics Association Annual Symposium. Poster Presentation. November, 2017. Washington D.C.

National

1. **Lee YJ**, Boland M, Bakken S, Weng C. Aligning One CTSA's Research Networking System to VIVO. Podium Presentation. 2012 CTSA Annual Informatics Meeting. November, 2012. Chicago, IL.
2. Carson M, **Lee YJ**, Soulakis N. Analysis of Care Coordination Networks for Deceased Heart Failure Patients. Poster Presentation. 5th Annual International Science of Team Science

Conference. August, 2014. Austin, Texas.

3. **Lee YJ**, Carson M, Soulakis N. Identifying and Evaluating Care Team Composition for Heart failure Hospitalizations. Poster Presentation. 5th Annual International Science of Team Science Conference. August, 2014. Austin, Texas.

Other Scholarly Activities

Manuscript Reviewer

2014– Present Ad hoc reviewer, Journal of Medical Internet Research
2014– Present Ad hoc reviewer, Health Psychology
2014– Present Ad hoc reviewer, International Journal of Environmental Research and Public Health
2015– Present Ad hoc reviewer, Journal of American Medical Informatics Association
2015– Present Ad hoc reviewer, Methods of Information in Medicine
2015– Present Ad hoc reviewer, BMC Medical Informatics and Decision Making

TEACHING

University of Pittsburgh School of Nursing

Primary Teacher

2015 (Fall) – present	NURSP 2075	Introduction to Health Informatics (DNP Program)
2016 (Spring) – present	NURSP 2085	Nursing Informatics Practicum I (MSN Program)
2016 (Spring) – present	NURSP 2086	Nursing Informatics Practicum II (MSN Program)
2016 (Spring) – present	NURSP 2076	Clinical Information Systems (MSN Program)

Undergraduate

2017– Present: Kristian Hill, Undergraduate Research Mentorship Program
2017– Present: Erin Rafferty, Undergraduate Research Mentorship Program

MSN Advisee

2015– 2016: Danielle Siarri, MSN Nursing Informatics student
2015– 2016: Kathryn Fowler, MSN Nursing Informatics student
2015– 2016: Michelle Lienemann, MSN Nursing Informatics student
2015– 2016: Shelly Jones, MSN Nursing Informatics student
2015– 2016: Heidilyn Dolinich, MSN Nursing Informatics student
2015– 2017: Erin Wood, MSN Nursing Informatics student
2015– 2017: Clarissa Dangler, MSN Nursing Informatics student
2015– Present: Tahirah Marks, MSN Nursing Informatics student
2017– Present: Alexis Mathew, MSN Nursing Informatics student

PhD Dissertation

2016– present: Dissertation committee for Janet Arida, Nursing Ph.D. student (Chair: Heidi Donovan)
2018– : Dissertation committee for Linden Wu, Nursing Ph.D. student (Chair: Elizabeth Schlenk)

DNP Capstone

2017– present: Capstone committee for Bozena Brooks Larsen, DNP student (Chair: Geraldine Maurer)

SERVICE

University of Pittsburgh School of Nursing

5/2015 – Present Member, BSN Council

5/2015 – Present Member, MSN Council

7/2017 – Present Member, Admission, Progression & Graduation Committee

University of Pittsburgh

9/2017 – Present Member, The Senate Computer Usage Committee

Community Service

1/2017 – present Community Human Services, Pittsburgh, PA
Client Health Consultant

National Service

1/2018 – present American Nurse Association (ANA)
Advisory Committee of the ANA Connected Health/Telehealth
Professional Issues Panel