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E-mail: [leeyoung@pitt.edu](mailto:leeyoung@pitt.edu)**EDUCATION AND TRAINING****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, MD9/2010 – 7/2013 Columbia University Ph.D. Nursing  
New York, NY (Focus: Nursing Informatics)**Post-Graduate**8/2013 – 3/2014 University of Illinois at Chicago Postdoctoral Research Associate  
Department of General Internal Medicine  
Chicago, IL3/2014 – 4/2015 Northwestern University Department of Postdoctoral Research Fellow  
Preventive Medicine  
Chicago, IL**APPOINTMENTS AND POSITIONS****Academic**1/2008 – 6/2009 University of Maryland School of Nursing Graduate Research Assistant  
Maryland, MD10/2009 – 7/2010 Seoul National University College of Nursing Nursing Informatics researcher  
Seoul, Korea (ROK)9/2010 – 7/2013 Columbia University School of Nursing Teaching assistant, Research  
New York, NY Assistant5/2015 – 4/2016 Northwestern University Department of Adjunct Assistant Professor  
Preventive Medicine  
Chicago, IL

5/2015 – 10/2022 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)
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
1/2018 – Present	School of Nursing University of Pittsburgh Pittsburgh, PA	Graduate Faculty
8/2018 – Present	School of Nursing University of Pittsburgh Pittsburgh, PA	Nursing Informatics Program Coordinator
10/2018 – Present	GynOnc Family CARE Center Magee Women’s Hospital of UPMC	Director of Health Informatics
9/2020 – Present	School of Nursing University of Pittsburgh Pittsburgh, PA	Co-Director of the Digital Health Hub
9/2022 – Present	Department of Health and Community Systems School of Nursing University of Pittsburgh Pittsburgh, PA	Vice Chair for Administration
11/2022 – Present	Department of Health and Community Systems School of Nursing University of Pittsburgh Pittsburgh, PA	Associate Professor with Tenure

### **LICENSURE AND CERTIFICATION**

Expires 4/30/24                      RN Licensure              RN 669057                      Pennsylvania

### **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
2020 – 2021	American Nursing Informatics (ANI) Nursing Informatics Emerging Leaders Program
2023	2023 Virginia K. Saba Nursing Informatics Leadership Award, Sigma Theta Tau International Honor Society of Nursing
2023	Pittsburgh Magazine Excellence in Nursing Honorable Mention – Researcher

### SCHOLARSHIPS

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

#### Refereed Articles (♦ = data-based; § = senior author, underlined = trainee or student)

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. PMID: PMC3799171
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 Annual Symposium Proceedings*. 2014; 855-864. PMID: PMC4419951
7. ♦ Soulakis ND, Carson MB, **Lee YJ**, Schneider DH, Skeeahan 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. **Lee YJ**, Arida J, Donovan H. The Application of Crowdsourcing Approaches to Cancer Research: A Systematic Review. *Cancer Medicine*. 2017; 6(11): 2595-2605.
11. Han J, **Lee YJ**, Demiris G. Interventions Using Social Media for Cancer Prevention and Management: A Systematic Review. *Cancer Nursing*. 2018; 41(6): E19-31.
12. ♦ Han S, Kim D, Shivakumar M, **Lee YJ**, Garg T, Kim J, Kim D, Lee Y. The Effects of Alternative Splicing on miRNA Binding Sites in Bladder Cancer. *PLOS One*. 2018; 13(1): e0190708.
13. ♦ Kim DW, Shivakumar M, Sinclair M, **Lee YJ**, Olufunmilayo O, Kim DK, Lee YH. Population-dependent Intron Retention and DNA Methylation in Breast Cancer. *Molecular Cancer Research*. 2018; 16(3): 461-9.
14. ♦ Hand L, Thoams T, Belcher S, Campbell G, **Lee YJ**, Roberge M, Lizaso C, Sparacio D, Donovan H. Caregiving is a Marathon, Not a Road Race: Re-envisioning Caregiver Support Services in Gynecologic Oncology. *International Journal of Gynecological Cancer*. 2018; 28(9): 1722-7.
15. ♦ **Lee YJ**, Kamen C, Margolies L, Boehmer, U. Online Health Community Experiences of Sexual Minority Survivors with Breast Cancer. *Journal of American Medical Informatics Association*. 2019; 26(8-9):759-66.
16. ♦ Jang H, **Lee YJ**, Carenini G, Ng R, Campbell G, Ho K. Neural Prediction of Patient Needs in an Ovarian Cancer Online Discussion Forum. In: Meurs MJ., Rudzicz F. (eds) *Advances in Artificial Intelligence*. Canadian AI 2019. Lecture Notes in Computer Science, vol 11489 (pp. 492-497). Springer, Cham. [https://doi.org/10.1007/978-3-030-18305-9\\_50](https://doi.org/10.1007/978-3-030-18305-9_50)

17. ♦ Campbell G, Thomas TH, Hand L, **Lee YJ**, Taylor SE, Donovan H. Caring for Survivors of Gynecologic Cancer: Assessment and Management of Long-term and Late Effects. *Seminars in Oncology Nursing*. 2019; 35(2): 192-201.
18. ♦ Hand LC, Thomas TH, Belcher S, Campbell G, **Lee YJ**, Roberge M, Donovan HS. Defining Essential Elements of Caregiver Support in Gynecologic Cancers Using the Modified Delphi Method. *Journal of Oncology Practice*. 2019; 15(4):e369-81.
19. ♦ Ge A, Jang H, Carenini G, Ho K, **Lee YJ**. Octvis: ontology-based comparison of topic models. In *2019 IEEE Visualization Conference (VIS) 2019 Oct 20* (pp. 66-70). IEEE.
20. ♦ **Lee YJ**, Bryce C, Jain S, Kraschnewski J, McTigue K. Patient-Centered Visualization on Supporting Patients' Decision-Making. *European Journal of Person-Centered Healthcare*. 2019; 7(4):630-9.
21. ♦ Campbell G, Boisen M, Hand L, **Lee YJ**, Lersch N, Roberge M, Suchonic B, Thomas T, Donovan H. Integrating Family Caregiver Support into a Gynecologic Oncology Practice: An ASCO Quality Training Program Project. *Journal of Oncology Practice*. 2020;16(3):e264-70.
22. ♦ **Lee YJ**, Park A, Roberge M, Donovan H. What Can Social Media Tell Us about Patient Symptoms: A Text Mining Approach to Online Ovarian Cancer Forum. *Cancer Nursing*. 2020 Jul 8. (Online ahead of print).
23. ♦ **Lee YJ**, Brazile T, Galbiati F, Bryce C, Jain S, Kraschnewski J, McTigue K. Understanding Shared Decision-Making Experience among Vulnerable Population: Focus Group with Food Bank Clients. *Journal of Clinical and Translational Science*. 2020;5(1):e37.
24. ♦ **Lee YJ**, Jang H, Campbell G, Carenini G, Thomas T, Donovan H. Identifying Language Features Associated with Needs of Ovarian Cancer Patients and Caregivers Using Social Media. *Cancer Nursing*. 2021 Feb 12. (Online ahead of print).
25. ♦ Thomas T, Campbell G, **Lee YJ**, Roberge M, Ken E, Steel J, Posluszny D, Arida J, Belcher S, Sherwood P, Donovan H. Priorities to Improve Cancer Caregiving: Report of a Caregiver Stakeholder Workshop. *Supportive Care in Cancer*. 2021;29(5):2423-34.
26. ♦ Jang H, Bang S, Carenini G, Ng R, **Lee YJ**. KW-ATTN: Knowledge Infused Attention for Accurate and Interpretable Text Classification. In *Proceedings of Deep Learning Inside Out (DeeLIO): The 2nd Workshop on Knowledge Extraction and Integration for Deep Learning Architectures* (pp. 96-107).
27. ♦ § **Hui V**, Brazee R, Rosenzweig M, **Lee YJ**. The Association between Hormone Receptor Reactivity and the Quality of End-of-Life Care Received among Patients with Metastatic Breast Cancer (MBC). *Clinical Journal of Oncology Nursing*. 2022;26(2):198-203.
28. ♦ Campbell G, Belcher S, **Lee YJ**, Courtney-Brooks M, Bovbjerg D, Bizhanova Z, Donovan H. Intensive Daily Symptom and Function Monitoring is Feasible and Acceptable to Women Undergoing First Line Chemotherapy for Gynecologic Cancer. *Cancer Nursing*. 2022;45(5):369-77.

29. ♦ § Thaker K, Chi Y, Birkhoff S, He D, Donovan H, Rosenbum L, Brusilovsky P, Hui V, **Lee YJ**. Exploring Resource Sharing Behaviors for Finding Relevant Health Resources: An Analysis of an Online Ovarian Cancer Community. *JMIR cancer*. 2022;8(2):e33110.
30. ♦ § Chi Y, Thaker K, He D, Hui V, Donovan H, Brusilovsky P, **Lee YJ**. Knowledge Acquisition and Social Support in an Online Health Community for Ovarian Cancer. *JMIR Cancer*. 2022;13;8(3):e39643.
31. § Koehlel H, Kronk C, **Lee YJ**. Digital Health Equity: Addressing Power, Usability, and Trust to Strengthen Health Systems. *IMIA Yearbook of Medical Informatics*. 2022;31(1):20-32.
32. Thomas TH, Go K, Go K, McKinley NJ, Dougherty KR, You KL, **Lee YJ**. Empowerment through technology: A systematic evaluation of the content and quality of mobile applications to empower individuals with cancer. *International Journal of Medical Informatics*. 2022; 29:104782.
33. ♦ § Rahdari B, Brusilovsky P, He D, Thaker KM, Luo Z, **Lee YJ**. HELPeR: An Interactive Recommender System for Ovarian Cancer Patients and Caregivers. In Proceedings of the 16th ACM Conference on Recommender Systems 2022 Sep 18 (pp. 644-647).
34. § Hui V, Constantino R, **Lee YJ**. Harnessing machine learning in domestic violence – an integrative review. *International Journal of Environmental Research and Public Health*. 2023;20(6):4984.
35. ♦ § **Lee YJ**, Palmer J, Cline A, HY Lee. Factors influencing the health care utilization among people with mental illness. *American Psychiatric Nurses Association*. 2023; p.10783903231197655.
36. ♦ § Hui V, Eby M, Chang J, He D, Lee H, Zelazny J, Constantino R, **Lee YJ**. Examining supports and advice that women with intimate partner violence experience received in online health communities – text mining approach. *Journal of Medical Internet Research*. 2023; 25:e48607.
37. ♦ § Chi Y, Hui V, Kunsak H, Brusilovsky P, Donovan H, He D, **Lee YJ**. Women with Ovarian Cancer’s Information Seeking and Avoidance Behaviors: An Interview Study. *Journal of American Medical Informatics Association Open*. Accepted.
38. § Hui V, Zhang B, Jeon B, Wong KCA, Klem ML, **Lee YJ**. Harnessing health information technology in domestic violence in the United States: A scoping review. *Public Health Reviews*. Minor Revision.
39. ♦ Jeon B, Chung SJ, **Lee YJ**. Racial/Ethnic Disparities in Sleep Health Among Adolescents in South Korea: The Role of Substance Use Behaviors. *Journal of Advanced Nursing*. Minor Revision.
40. ♦ § Rahdari B, Thaker K, Luo Z, Wang Y, Brusilovsky P, He D, **Lee YJ**. An Interactive Health Information Recommender System for Caregivers and Patients. *AVI 2024, 17th International Conference on Advanced Visual Interfaces*. Under Review.
41. ♦ § Hui V, Eby M, Chang J, Daqing H, Lee H, Zelazny J, Constantino R, **Lee YJ**. The help-

seeking behaviors among women with intimate partner violence (IPV) experiences expressed in online health communities. *Violence Against Women*. Under Review.

42. ♦ § Birkhoff S, Donovan H, **Lee YJ**. Identifying oncology caregivers' pre-treatment educational needs to inform future nurse-led virtual reality development. *Journal for Nurses in Professional Development*. Under Review
43. ♦ Han CJ, Ning X, **Lee YJ**, Tounkara F, Kalady MF, Noonan AM, Manne A, Kelly L, Von Ah, D. Using Twitter to Understand Primary Discussions in Gastrointestinal Cancers: Machine Learning Approach. *Cancer Nursing*. Under Review.
44. ♦ Campbell G, Kim H, **Lee YJ**, Klinedinst TC, Klinger J, Donovan H. A Place of our Own: A Focus Group Study Exploring Gynecologic Cancer Dyads' Needs and Preferences for mHealth Supported Self-Management. *JMIR Cancer*. Major Revision.
45. ♦ § Gee J, **Lee YJ**, Campbell G, Thomas T, Loughlin K, Murray PJ, Donovan H. Translating Narrative Caregiver Documentation into Standardized Data by Adapting Nursing Interventions Classification (NIC) and Nursing Outcomes Classification (NOC). Manuscript in preparation. (co-first author)
46. ♦ **Lee YJ**, Jeong K, Abebe K, Hamm M, McTigue K. Assessing Narrative Engagement in Unstructured Patient Stories: Implications for Stakeholder Engagement Infrastructure. Manuscript in preparation.

**Published Abstracts** (♦ = data-based; § = senior author, underlined = trainee or student)

1. ♦ 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].
2. ♦ **Lee YJ**, Donovan H. Application of Text Mining in Cancer Symptom Management. *Studies in Health Technology and Informatics*. 2016;225:930-1. [Poster presentation. 13th International Congress in Nursing Informatics. June, 2016. Geneva, Switzerland].
3. ♦ Belcher S, Campbell G, Thomas T, **Lee YJ**, Lersch N, Roberge M. A Comparison of the Unmet Needs of Gynecologic Cancer Survivors with a History of One versus Multiple Primary Cancers. *Oncology Nursing Forum*. 2018;45(2):245. [Poster presentation. Oncology Nursing Society 43rd Annual Congress. May, 2018. Washington D.C.].
4. ♦ **Lee YJ**, Campbell G, Thomas T, Donovan H. Network Analysis of Symptoms among Women with Recurrent Ovarian Cancer. *International Journal of Gynecological Cancer*. 2018;28 (Suppl 3):128-129. [Poster presentation. European Society of Gynecologic Cancer State of the Art Conference 2018. October, 2018. Lyon, France].
5. ♦ **Lee YJ**, Jang H, Campbell G, Carenini G, Thoams T, Donovan H. Identifying Language Features Associated with Needs of Ovarian Cancer Patients and Caregivers Using Social Media. *International Journal of Gynecological Cancer*. 2018;28 (Suppl 3):196-197. [Poster

- presentation. European Society of Gynecologic Cancer State of the Art Conference 2018. October, 2018. Lyon, France].
6. ♦ Campbell G, **Lee YJ**, Thomas T, Donovan H. Early-onset Continuous CIPN Predicts Difficulty with Life Activities at Chemotherapy Completion. *International Journal of Gynecological Cancer*. 2018;28 (Suppl 3): 140-141. [Poster presentation. European Society of Gynecologic Cancer State of the Art Conference 2018. October, 2018. Lyon, France].
  7. ♦ Thomas T, Campbell G, **Lee YJ**, Sereika S, Donovan H. The Longitudinal Relationship between Ovarian Cancer Survivors Communication of Priority Symptoms and Symptom Severity: Establishing the Need for Appropriate Symptom Communication Patterns. *International Journal of Gynecological Cancer*. 2018;28 (Suppl 3): 144-145. [Poster presentation. European Society of Gynecologic Cancer State of the Art Conference 2018. October, 2018. Lyon, France].
  8. ♦ Hand L, Campbell G, Thomas T, **Lee YJ**, Belcher S, Roberge M, Donovan H. Essential Elements of Caregiver Support in Gynecologic Oncology. *Journal of Clinical Oncology*. 2018;36 (30 Suppl):160-160. [Poster Presentation. 2018 ASCO Quality Care Symposium. September 2018, Phoenix, AZ].
  9. ♦ **Lee YJ**, Campbell G, Thomas T, Donovan H. Network Analysis of Symptoms among Women with Recurrent Ovarian Cancer. *Oncology Nursing Forum*. 2019;46(2):5. [**Research Best Abstract Presentation**. Podium Presentation. Oncology Nursing Society 44th Annual Congress. April, 2019. Anaheim, CA].
  10. ♦ **Lee YJ**, Jang H, Campbell G, Carenini G, Thomas T, Donovan H. Identifying Language Features Associated with Needs of Ovarian Cancer Patients and Caregivers Using Social Media. *Oncology Nursing Forum*. 2019;46(2):3. [Podium Presentation. Oncology Nursing Society 44th Annual Congress. April, 2019. Anaheim, CA].
  11. ♦ Campbell G, **Lee YJ**, Roberge M, Thomas T, Donovan H. Early-onset Continuous CIPN: An Indicator of Future Disability? *Oncology Nursing Forum*. 2019;46(2):268. [Poster Presentation. Oncology Nursing Society 44th Annual Congress. April, 2019. Anaheim, CA].
  12. Donovan H, Boisen M, Hand LC, **Lee YJ**, Lersch N, Roberge M, Suchnoic B, Thomas T, Campbell G. Family Caregiver Needs Assessment in a Gynecologic Oncology Practice: An ASCO Quality Training Program Project. *Journal of Clinical oncology*. 2019; 37(27 Suppl), 178-178. [Poster Presentation. 2019 ASCO Quality Care Symposium. September, 2019. San Diego, California]
  13. ♦ **Lee YJ**, Niyu H. Development of a Graph-Based Database for Ovarian Cancer Symptoms. *Studies in Health Technology and Informatics*. 2020;270:1253-4. [Poster Presentation. Medical Informatics Europe 2020. April, 2020. Geneva, Switzerland.]
  14. ♦ Donovan HS, Thomas TH, Boisen MM, Campbell G, Edwards RP, Hand LC, **Lee YJ**. Stability of symptoms and symptom clusters over time for women with recurrent ovarian cancer on GOG-259 - a GOG/nrg oncology study. *Gynecologic Oncology*. 2020;159(Suppl 1): 60. [Poster presentation. Society of Gynecologic Oncology 2020 Annual Meeting. March, 2020. Toronto, Canada].



15. ♦ Donovan HS, Thomas TH, Campbell G, Hand L, **Lee YJ**, Bosien MM. Stability of symptoms and symptom clusters over time for women with recurrent ovarian cancer on GOG-259 - A GOG/NRG Oncology study. *Oncology Nursing Forum*. 2020;47(2):58. [Podium Presentation. Oncology Nursing Society 45<sup>th</sup> Annual Congress. May, 2020. San Antonio, TX.]
16. ♦ Campbell G, Hand LC, Boisen, MM, Thomas TH, **Lee YJ**, Roberge M, Donovan HS. Identification and Assessment of Gynecologic Cancer Caregiver Distress: An Inpatient Quality Improvement Initiative. *Oncology Nursing Forum*. 2020;47(2):186-187. [Poster Presentation. Oncology Nursing Society 45<sup>th</sup> Annual Congress. May, 2020. San Antonio, TX.]
17. ♦ **Lee YJ**, Harleigh N, Donovan H. Development of a Graph-Based Database for Ovarian Cancer Symptoms. *Oncology Nursing Forum*. 2020;47(2):6. [Podium Presentation. Oncology Nursing Society 45<sup>th</sup> Annual Congress. May, 2020. San Antonio, TX].
18. ♦ § Chi Y, Hui V, Kunsak H, Brusilovsky P, Donovan H, He D, **Lee YJ**. Challenges of Ovarian Cancer Patient and Caregiver Online Health Information Seeking. Proceedings of the Association for Information Science and Technology. 2021 Oct; 58(1):688-90. [Poster Presentation. 84<sup>th</sup> Annual Meeting of the Association for Information Science & Technology (ASIS&T), Oct 30-Nov 2, 2021. Hybrid format]
19. ♦ § Birkhoff SD, Donovan H, **Lee YJ**. Opportunity to complement and enhance pre-treatment education for caregivers using virtual reality. *Oncology Nursing Forum*. 2022;49(2):E147-E148 [Poster Presentation. Oncology Nursing Society 47<sup>th</sup> Annual Congress, Anaheim, CA, April 27, 2022]
20. ♦ § Birkhoff SD, Donovan H, **Lee YJ**. Exploring Oncology Caregivers' Diverse Needs to Inform a Future Virtual Reality Experience. *Nursing Research*. 2022;71(3):S53-S53. [Poster Presentation. Eastern Nursing Research Conference 34<sup>th</sup> Annual Scientific Sessions, Providence, RI. March 31-April 1, 2022]
21. ♦ § Birkhoff SD, Donovan H, **Lee YJ**. Identifying Oncology Caregivers' Unmet Needs to Inform Future Nurse-led Virtual Reality Development. *Supportive Care in Cancer*. 2022;30(Suppl 1):S29. [Poster Presentation. Multinational Association of Supportive Care in Cancer Annual Meeting. Toronto, Canada. June 23-25, 2022]
22. ♦ § Zhao J, Donovan H, **Lee YJ**. A network analysis of comorbidities among ovarian cancer patients using a Surveillance, Epidemiology, and End Results (SEER) cancer registry. *Oncology Nursing Forum*. 2023;50(2): E2-E2. [Poster Presentation. Oncology Nursing Society 48<sup>th</sup> Annual Congress. San Antonio, TX. April 26–30, 2023]
23. § Wang Y, Bender C, **Lee YJ**. A scoping review of unmet needs in informal caregivers of gynecologic cancer patients. *Oncology Nursing Forum*. 2023;50(2): E2-E2. [Poster Presentation. Oncology Nursing Society 48<sup>th</sup> Annual Congress. San Antonio, TX. April 26–30, 2023]
24. ♦ Donovan H, Campbell G, **Lee YJ**, Loughlin K, Roberge M, Wang Y, Thomas T. The GynOnc Family CARE Center: Integrating Family Caregivers into Gynecologic Oncology Practice. *Qual of Life Research*. 2023;32(Suppl 2): S162. [Poster Presentation. International Society for Quality of Life (ISOQOL) 30th Annual Conference. Calgary, Alberta, Canada. October 18-21, 2023]

25. ♦ Campbell G, Donovan H, **Lee YJ**, Loughlin K, Murray PJ, Thomas T, Wang Y. Development of a Brief Caregiver Screening Tool to Identify At-Risk Caregivers. *Qual of Life Research*. 2023;32(Suppl 2): S58. [Podium Presentation. International Society for Quality of Life (ISOQOL) 30th Annual Conference. Calgary, Alberta, Canada. October 18-21, 2023]
26. ♦ § Jeon B, Chung SJ, Breaker KJ, **Lee YJ**. Racial/Ethnic Disparities in Sleep Health Among Adolescents in South Korea: The Role of Substance Use Behaviors. Will be published in *Sleep Medicine*. [Podium Presentation. World Sleep 2023. Rio de Janeiro, Brazil. October 20-25, 2023]
27. ♦ § Wang Y, Thaker K, Hui V, Brusilovsky P, He D, Donovan H, **Lee YJ**. Utilizing Digital Twin to Create Personas Representing Ovarian Cancer Patients and Their Families. NI 2024. Submitted.
28. ♦ Hui V, Guan S, Zhang B, **Lee YJ**, Constantino R. Predicting the Information Need for Domestic Violence Survivors Based on the Fine-tuned Large Language Model. NI 2024. Submitted.
29. ♦ § Thaker K, Rahadari B, Hui V, Luo Z, Wang Y, Brusilovsky P, He D, Donovan H, **Lee YJ**. HELPeR: Interface design decision and evaluation. NI 2024. Submitted.

**Reviews, Invited Published Papers, Proceedings, Monographs** (♦ = data-based; § = senior author, underlined = trainee or student)

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 Proceedings: 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 Proceedings: 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 Proceedings: 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 Proceedings: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 Proceedings: 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 Proceedings. 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 Proceedings; 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 Proceedings; 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 Proceedings; 1549. [Poster presentation. American Medical Informatics Association Symposium 2015. November, 2015. San Francisco, CA.].
11. ♦ **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 Proceedings; 2093. [Poster presentation. American Medical Informatics Association Symposium 2017. November, 2017. Washington D.C.].
12. § Hui V, Klem ML, Constantino R, **Lee YJ**. Harnessing Health Information Technology in Family Violence in the United States – Systematic review. 2019 American Medical Informatics Association Annual Symposium Proceedings: 1612. [Poster presentation. American Medical Informatics Association Symposium 2019. November, 2019. Washington D.C.].
13. ♦ **Lee YJ**, Campbell G, Han V, Jang H. Dialog Act Classification (DCA) for Automated Classification of Online Health Communities. 2019 American Medical Informatics Association Annual Symposium Proceedings: 1652. [Poster presentation. American Medical Informatics Association Symposium 2019. November, 2019. Washington D.C.].
14. ♦ § Tahker K, He D, Brusilovsky P, **Lee YJ**. Automated categorization of online health documents using Domain Specificity. 2020 American Medical Informatics Association Annual Symposium Proceedings:1944. [Poster Presentation. American Medical Informatics Association 2020 Virtual Annual Symposium. November, 2020]
15. ♦ § Wang Z, Brusilovsky P, Donovan H, Hui V, Klem ML, Przybylak D, Reis H, He D, **Lee YJ**. Machine learning based iterative annotation system for Ovarian Cancer articles. 2020 American Medical Informatics Association Annual Symposium Proceedings: 1958. [Poster Presentation. American Medical Informatics Association 2020 Virtual Annual Symposium. November, 2020]

16. ♦ § Hui V, Wang Z, **Lee YJ**. What can online Ovarian Cancer Forum Present Us about Patients' Information Needs? - A Text-Mining Approach. American Medical Informatics Association 2021 Virtual Informatics Summit Proceedings: 810. [Poster Presentation. American Medical Informatics Association 2021 Virtual Informatics Summit].
17. Tiase V, Austin R, **Lee YJ**, Martin C. Leveraging PGHD in Clinical Workflows: Opportunities and Challenges for Use in Patient Care. 2021 American Medical Informatics Association Annual Symposium Proceedings: 157-159. [Podium Presentation. American Medical Informatics Association 2021 Annual Symposium. November, 2021. San Diego, CA]
18. **Lee YJ**, Cato K, Albashayreh A, Alexander G, Backonja U, Bakken S, Creber R, Sabin J, Weiskopf N. Exploring Mechanisms to Examine Racial Biases within a LHS Framework. American Medical Informatics Association 2021 Annual Symposium. [Workshop. American Medical Informatics Association 2021 Annual Symposium. November, 2021. San Diego, CA]
19. ♦ § Thaker K, Birkhoff S, Hui V, Wang Z, Brusilovsky P, He D, **Lee YJ**. Towards building a Recommender System: Analyzing Resource Sharing on an Online Ovarian Cancer Community. 2021 American Medical Informatics Association Annual Symposium Proceedings: 1851. [Poster Presentation. American Medical Informatics Association 2021 Annual Symposium. November, 2021. San Diego, CA]
20. ♦ § Birkhoff SD, Donovan H, **Lee YJ**. Exploring oncology caregivers' diverse needs to inform a future virtual reality experience. [Podium Presentation. 34<sup>th</sup> Annual Scientific Sessions of Eastern Nursing Research Society. March 31-April, 2022. Providence, RI.]
21. Austin R, DeSilvey SC, Hewner S, Hull SC, **Lee YJ**, Reimer A, Wetta R. Examining Implications and Use of Social Determinants of Health Data. 2022 American Medical Informatics Association Annual Symposium Proceedings: [Workshop. American Medical Informatics Association 2022 Annual Symposium. November, 2022. Washington DC]
22. ♦ § Gee J, **Lee YJ**, Donovan H, Campbell G, Thomas T, Loughlin K, Murray P. Translating Narrative Clinical Reports into Quantified Data by Adapting Nursing Intervention Classifications (NIC). [Poster Presentation. 14th ACENDIO Conference. Rome, Italy. March 16-18]
23. ♦ Oniani D, Sreekumar S, DeAlmeida R, DeAlmeida D, **Lee YJ**, Zhang Y, Zhou L, Wang Y. Toward Improving Health Literacy in Patient Education Materials with Neural Machine Translation Models. [Podium Presentation. American Medical Informatics Association Informatics Summit 2023. March 13-16, Seattle, WA]
24. ♦ § Hui V, Zabala J, Eby M, Constantino R, Lee H, Zelazny J, Chang JC, He D, **Lee YJ**. Association between linguistic features and help-seeking among women with intimate partner violence in online health communities (OHCs). [Poster Presentation. American Medical Informatics Association Informatics Summit 2023. March 13-16, Seattle, WA]
25. § Chao C, Scott R, **Lee YJ**. A scoping review on the association between long-term exposure to ultraviolet radiation and the risk of developing ovarian cancer. [Poster Presentation. National Conference on Undergraduate Research (NCUR). April 13-15, 2023. Eau Claire, WI]
26. ♦ § Scott R, Chao C, Wang Z, Luo Z, Hui V, Chi Y, Donovan H, **Lee YJ**. Identifying most

- common concerns of ovarian cancer caregivers reported in online health communities (OHCs). [Poster Presentation. National Conference on Undergraduate Research (NCUR). April 13-15, 2023. Eau Claire, WI]
27. ♦ Lee HY, **Lee YJ**, Curtis A, Palmer J. Factors influencing the health care utilization among people with mental illness. Poster Presentation. American Psychiatric Nurse Association (APNA) 37th Annual Conference. October 4-7, 2023. Lake Buena Vista, FL]
  28. ♦ Horne T, **Lee YJ**, Zhou L, Choi Y, Rodakowski J, Wang Y. Improving the Readability of Informed Consent Forms using ChatGPT. American Medical Informatics Association 2023 Annual Symposium Proceedings: 1771. [Poster. American Medical Informatics Association 2023 Annual Symposium. November, 2023. New Orleans, LA]
  29. ♦ § Wang Y, Klem ML, Kim JE, Luo Z, Donovan H, **Lee YJ**. Evaluation of the Quality of Online Health Information for Ovarian Cancer. American Medical Informatics Association 2023 Annual Symposium Proceedings: 1974. [Poster. American Medical Informatics Association 2023 Annual Symposium. November, 2023. New Orleans, LA]
  30. ♦ § Hui V, Chi Y, Thaker K, Wang Y, Donovan H, Brusilovsky P, He D, **Lee YJ**. Towards building a recommender system: Ovarian cancer (OvCa) patients and caregivers' information needs and perceived disease knowledge across different illness trajectories. American Medical Informatics Association 2023 Annual Symposium Proceedings: 1780. [Poster. American Medical Informatics Association 2023 Annual Symposium. November, 2023. New Orleans, LA]
  31. ♦ § Thaker K, Rahdari B, Wang Y, Donovan H, Brusilovsky P, He D, **Lee YJ**. Walk a Mile in Their Shoes: Using Personas to obtain Health Professional Perspectives for an Ovarian Cancer Patient-Focused Recommender System. American Medical Informatics Association 2023 Annual Symposium Proceedings: 1955. [Poster. American Medical Informatics Association 2023 Annual Symposium. November, 2023. New Orleans, LA]
  32. § Chao C, Wang Y, **Lee YJ**. A review on the role of online nutrition education material for patients diagnosed with cancer. Accepted. [Poster Presentation. National Conference on Undergraduate Research (NCUR). April 8-10, 2024. Long Beach, CA]
  33. ♦ Donovan H, Campbell G, **Lee YJ**, Kimm L, Murray P, Roberge M, Wang Y, Thoams T. The GynOnc Family CARE Center: Integrating Family Caregivers into Gynecologic Oncology Practice. Accepted. [Podium Presentation. Eastern Nursing Research Societies. 36th Annual Scientific Sessions. April 4-5, 2024. Boston, MA]

## RESEARCH

### Research Grants (Funded)

Role: Principal Investigator 8/2015 – 7/2018  
 Type: Ruth Perkins Kuehn Research Award  
 Funding Agency: School of Nursing University of Pittsburgh  
 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)

The goal of this study is to explore the symptom clusters and associated needs among ovarian cancer survivors using social media.

Role: Co-Investigator (PI: Kathleen McTigue, MD, MPH) 9/2015 – 9/2019

Type: PCORnet, the National Patient-Centered Clinical Research Network

Funding Agency: Patient-Centered Outcomes Research Institute (PCORI)

Title: This work falls under PaTH Clinical Research Network Infrastructure Contract (PI: McTigue)

Development of Patient-Centered Infographic through Crowdsourcing Approach

Award: \$19,591

As a part of the PCORnet, the aim of project is to develop and evaluate patient-centered infographics for use in disseminating comparative effectiveness research (CER) findings.

Role: Co-Investigator (PI: Heidi Donovan, PhD, RN) 8/2017 – 7/2019

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

The aims of study are to (1) evaluate existing cancer registry, medical record and clinical pathway data to identify the range of factors that put patients at risk for receiving sub-optimal treatment across a large healthcare system in Western Pennsylvania, and (2) use in-depth focus group interviews with patients, family caregivers, and providers to identify patient- and provider- related barriers to initiating and persisting with best standard-of-care treatment.

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

The goal of this study is to develop a computational model to identify linguistic markers that can recognize psycho-cognitive aspects of care personalization using PROs.

Role: Principal Investigator 2/2019 – 6/2019

Type: RoAD Trip program

Funding Agency: NIH Big Data to Knowledge (BD2K) Training Coordinating Center (TCC)

Title: Data-driven Patient Timelines from Registry and Electronic Medical Records: Ovarian Cancer Study

Award: \$4,000

The goal of this study is to build a model that directs questions of suboptimal delivery as well as other important time-dependent, recurrent event data-type questions relevant to ovarian cancer treatment.

Role: Principal Investigator 7/2019 – 6/2022

Type: Central Research Development Fund of University of Pittsburgh

Funding Agency: University of Pittsburgh

Title: Development of Computational Model to Predict Patients at Risk for Poor Quality of Death in Metastatic Breast Cancer (MBC)

Award: \$16,000

The goal of this study is to develop a computational model to predict patients who are at risk for poor quality of death in MBC.

Role: Principal Investigator 7/2019 – 6/2021

Type: Center for Research and Evaluation Pilot/Feasibility Program

Funding Agency: School of Nursing, University of Pittsburgh

Title: Development of Computational Model to Predict Patients at Risk for Poor Quality of Death in Metastatic Breast Cancer (MBC) and Ovarian Cancer

Award: \$15,000

The aims of the study are to (1) develop a computational model to predict the quality of end-of-life (EOL) care among ovarian cancer patients, and (2) develop a computational model that integrates both MBC and ovarian cancer to predict the quality of EOL care.

Role: Principal Investigator (MPI: Lee, He) 9/2019 – 7/2023

Type: R01

Funding Agency: NIH, NLM, R01 LM013038

Title: Development and Implementation of a Health e-Librarian with Personalized Recommender (HELPeR)

Award: \$1,287,951

The goal of this project is to develop and test a digital librarian driven by an innovative hybrid filtering recommender system to provide personalized, relevant online information to cancer patients.

Role: co-Investigator (MPI: Donovan, Beach, Parmanto) 10/2019-9/2024

Type: n/a

Funding Agency: DHHS/Administration for Community Living

Title: Center for Research, Training, and Dissemination of Family Support for People with Disabilities across the Life Course

Award: \$4,374,995

The goal of this project is to develop and test a digital librarian driven by an innovative hybrid filtering recommender system to provide personalized, relevant online information to cancer patients.

Role: co-Investigator (PI: Heidi Donovan, PhD, RN) 1/2020 – 8/2021

Type: n/a

Funding Agency: Clovis Oncology

Title: Family Caregiver Resource Development and Evaluation

Award: \$125,000

The purpose of this project is to implement and evaluate a comprehensive library of self-management guides for women with gynecologic cancers and their family caregivers.

Role: co-Investigator (PI: Bomin Jeon, PhD, RN) 2/2023 – 1/2024

Type: Sigma Theta Tau Gamma Chapter Grant

Funding Agency: University of Iowa, College of Nursing

Title: Ethnic/racial disparities in adolescent sleep health: Role of substance use

Award: \$5,000

The purpose of this project is to understand the role of substance use in relation to sleep disturbances among ethnic/racial minority adolescents.

### **Research Grants (Submitted)**

Role: Principal Investigator Submitted in Oct, 2023

Type: R01

Funding Agency: NIH, NIMHD, R01 MD019662-01

Title: Development and Evaluation of BRAVE (Building Research-partners Advancing Voices through

Empowerment)

Award: \$2,224,409

The goal of this study is to empower Black individuals to contribute to equitable research while leveraging the cultural heritage of storytelling.

Role: Co-Investigator (PI: Dr. Jennifer Holder-Murray)

Submitted in Jan,  
2024

Type: SBIR/STTR

Funding Agency: NIH, R42HL174371

Title: PiP Care

Award: \$1,188,888

The goal of this study is to expand the Pip digital health platform and evaluate it among a larger breadth of surgical patients ( $\geq 18$  years) with comorbidities admitted for orthopedic joint, spine, thoracic, and complex abdominal surgeries at UPMC

### **Training Grants**

Role: Core Faculty (PI: DeVito Dabbs)

7/2017 – 6/2027

Type: T32

Funding Agency: NINR, T32NR008857

Title: Technology Research in Chronic and Critical Illness

The use of technology to monitor, deliver, and manage health is becoming more and more pervasive. This training grant provide rigorous research training and interdisciplinary culturalization to aid clinical scientists in adopting technology to promote health, manage illness, reduce disability, and enhance quality of life.

Role: Core Faculty (PI: Hochheiser)

7/1987 – 6/2027

Type: T15

Funding Agency: NLM, T15LM007059

Title: Pittsburgh Biomedical Informatics Training Program

The grant would support predoctoral and postdoctoral studies for eligible candidates interested in pursuing research careers in biomedical informatics. The program offers research training in the application of informatics to problems in translational sciences, clinical sciences, clinical research and public health.

### **Additional Research Activities**

Role: Research Assistant (PI, Suzanne Bakken, PhD, RN, FAAN, FACMI)

9/2010 – 6/2012

Type: P30 NR010677

Funding Agency: NIH, NINR

Title: Center for Evidence-based Practice in the Underserved

Role: Research Assistant (PI, Suzanne Bakken, PhD, RN, FAAN, FACMI)

7/2012 – 7/2013

Type: R01 HS019853

Funding Agency: AHRQ

Title: Washington Heights Inwood Informatics Infrastructure Comparative Effectiveness Research (WICER)

### **OTHER SCHOLARLY ACTIVITIES**

### **Grant Reviewer**



8/2018	Reviewer, Leslie A. Hoffman Nursing Research Fund. University of Pittsburgh School of Nursing
8/2019	Reviewer, Ruth Perkins Kuehn Award. University of Pittsburgh School of Nursing
3/2020	Ad Hoc Member, National Institute of Health (NIH) Study section ZRG1 HDM W03, W90
2/2022	Ad Hoc Member, National Institute of Health (NIH) Study section Health Services: Quality and Effectiveness
12/2022	Ad Hoc Member, Hillman Developmental Pilot Program. UPMC Hilman Cancer Center
12/2023	Reviewer, Research Catalyst Award. University of Pittsburgh School of Nursing

### **Peer-Reviewed Manuscript Reviewer**

2014– Present	Reviewer, Journal of Medical Internet Research
2014– Present	Reviewer, Health Psychology
2014– Present	Reviewer, International Journal of Environmental Research and Public Health
2015– Present	Reviewer, Journal of American Medical Informatics Association
2015– Present	Reviewer, Methods of Information in Medicine
2015– Present	Reviewer, BMC Medical Informatics and Decision Making
2016– Present	Reviewer, CIN: Computers, Informatics, Nursing
2016– Present	Reviewer, Western Journal of Nursing Research
2018– Present	Reviewer, Health Informatics Journal
2018– Present	Reviewer, Health Equity
2020– Present	Reviewer, Applied Clinical Informatics (ACI) Open
2020– Present	Reviewer, Cancer Nursing
2021– Present	Reviewer, Psycho-Oncology

### **Abstract Reviewer**

2012– Present	Reviewer, American Medical Informatics Associations Annual Symposium
December, 2021	Reviewer, Machine Learning for Health (ML4H) (ML4H 2021)

### **UNPUBLISHED PRESENTATIONS**

#### **International**

1. **Lee YJ**, Park HA, Min YH, Kim Y, Lee MK. Development and Validation of Core Concept Hierarchy for Pain. The China-Japan-Korea Medical Informatics Fall Conference 2009. October, 2009. Daejeon, Korea. [Podium Presentation]
2. Yoon S, Odlum M, **Lee YJ**. Analytic Strategies of Streaming Data for eHealth. Tutorial. 13th International Congress in Nursing Informatics. June, 2016. Geneva, Switzerland. [Podium

## Presentation]

3. **Chung SJ, Lee YJ.** An Application of Machine Learning for the Identification of Adolescent Smoking Risk Factors. Sigma Theta Tau International's 28th International Nursing Research Congress. June, 2017. Dublin, Ireland. [Poster presentation]
4. **Lee YJ.** Development and Implementation of a Health e-Librarian with Personalized Recommender (HELPeR). College of Nursing, Seoul National University. Seoul, Korea. April 21, 2021. Invited Speaker.
5. **Lee YJ.** Big Data Analytics in Nursing Research: Tools and Examples. College of Nursing, Chung-Ang University. April 30, 2021. Invited Speaker.
6. **Lee YJ.** Integrating Patient-Generated Health Data (PGHD) in Nursing Research. The 2021 International Nursing Conference Nursing Science Research Institute. Big Data Science in Health Care: Research to Practice. Chung-Ang University. October 29, 2021. Invited Speaker.
7. **Lee YJ.** Human-AI collaboration: Health E-Librarian with Personalized Recommender engine (HELPeR). The 2022 International Conference at Chonnam Research Institute of Nursing Science: Digital health transformation: Next steps for the future of nursing. Chonnam National University. December 6, 2022. Invited Speaker.
8. **Lee YJ.** Incorporating Patient-Generated Health Data into Nursing Research: Opportunities and Challenges. College of Nursing, Keimyung University. June 8, 2023. Invited Speaker.
9. **Lee YJ.** Human-AI collaboration: Health E-Librarian with Personalized Recommender Engine (HELPeR). Podium Presentation. Sigma Theta Tau International (STTI) Honor Society of Nursing 47th Biennial Convention. San Antonio, TX. November 13<sup>th</sup>, 2023. Special Session Presenter.

**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. [Podium Presentation]
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. [Poster Presentation]
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. [Poster Presentation]
4. **Birkhoff SD, Donovan H, Lee YJ.** Exploring caregivers' oncology pretreatment experiences. National Center on Family Support's Second Bi-annual Conference on Caregiving Research. University of Pittsburgh, Pittsburgh, PA September 30-October 1, 2022. [Poster Presentation]

**Local / Regional**

1. **Lee YJ.** Listening to survivor's voice through social media. Brain, Behavior, and Cancer

- Seminar Series, University of Pittsburgh Cancer Institute. Pittsburgh, PA. April 25, 2018. Invited speaker.
2. **Lee YJ.** Developing a Cancer Caregiving Ontology to Identify Novel Outcome. Inaugural Cancer and Caregiving Research Conference and Caregiver Workshop. University of Pittsburgh. February 12-13, 2020. Invited speaker.
  3. **Lee YJ.** Big Data Analytics in Nursing Research: Tools and Examples. Research Methodology Series. School of Nursing, University of Pittsburgh. February 17, 2020.
  4. **Lee YJ.** Health e-Librarian with Personalized Recommender (HELPeR) System for Ovarian Cancer Patients and Caregivers. Brain, Behavior, and Cancer Seminar Series, University of Pittsburgh Cancer Institute, Pittsburgh PA. September 24, 2020. Invited speaker.
  5. **Lee YJ.** Development of a Health e-Librarian with Personalized Recommender (HELPeR). Department of Biomedical Informatics Research Colloquium. Vanderbilt University. Nashville, TN. January 28, 2021. Invited speaker.
  6. **Lee YJ, Jeong K, Abebe K, Hamm M, McTigue K.** Measuring the Narrative Engagement of Patients Stories of Illnesses. 2021 Cross-Disciplinary Conference on Engaging Humanities in Health. University of Pittsburgh. Pittsburgh, PA. April 9-10, 2021. [Podium Presentation]
  7. **Fiore de Abril C, Hamm M, Lee YJ, McTigue K.** Exploring the perspectives & experience of patients and caregivers during the COVID-19 Pandemic through storytelling. 2021 Cross-Disciplinary Conference on Engaging Humanities in Health. University of Pittsburgh. Pittsburgh, PA. April 9-10, 2021. [Podium Presentation]
  8. **Lee YJ.** Human-AI collaboration: Health E-Librarian with Personalized Recommender engine (HELPeR). School of Nursing, University of Texas Health San Antonio. February 16, 2023. Invited Speaker.
  9. **Lee YJ.** Incorporating Patient-Generated Health Data into Nursing Research: Opportunities and Challenges. RHeaDI Journal Club, School of Nursing, Columbia University.
  10. **Lee YJ.** Human-AI collaboration: Health E-Librarian with Personalized Recommender engine (HELPeR). Women in Computing (WIC) Atlanta.
  11. **Lee YJ.** Human-AI collaboration: Health E-Librarian with Personalized Recommender engine (HELPeR). Health Informatics Grand Rounds, School of Health and Rehabilitation Science, University of Pittsburgh.

### TEACHING

#### Courses Taught at the University of Pittsburgh, School of Nursing (last 5 years)

2015 (Fall) – Present	NURSP 2075 Introduction to Health Informatics (MSN, DNP Program)
2016 (Spring) – Present	NURSP 2076 Clinical Information Systems (MSN Program)

2016 (Spring) – Present	NURSP 2085	Nursing Informatics Practicum I (MSN Program)
2016 (Spring) – Present	NURSP 2086	Nursing Informatics Practicum II (MSN Program)
2021 (Fall)	NUR 0001	First Year Seminar
2024 (Spring)	NUR 0053	Introduction to Inclusion, Equity, and Diversity in Health Care

### **Guest Lecturer (last 5 years)**

<b>Term/Years</b>	<b>Course Number &amp; Title</b>	<b>Level</b>	<b>Topic of Lecture</b>
Summer 2015	CoSBBI (Computer Science, Biology and Biomedical Informatics)	Undergraduate	Introduction to Nursing Informatics
Fall 2015	Department of Biomedical Informatics Colloquium	Graduate, Faculty	Informatics Approaches to Enhance Patient Engagement
Spring 2018, Spring 2019, Fall 2019	NUR 0086 Nursing Informatics	Undergraduate	Listening the patient’s voice – what nursing informatics can do?
Fall 2018	NUR 3044 Research Emphasis Seminar: Cancer Survivorship	Doctorate	Listening survivor’s voice – What nursing informatics can do?
Summer 2020	NUR 3072 State of the Science: Applications of Machine Learning in Health Sciences	Doctorate	Textual Data in Nursing Research
Fall 2021	NUR 3044 Research Emphasis Seminar: Cancer Survivorship	Doctorate	Integrating Patient-Generated Health Data (PGHD) in Nursing Research

### **THESIS, DISSERTATION AND MENTORING**

#### **Postdoctoral Research**

1. Susan Birkhoff, PhD, RN 2021 – 2022  
 “Leveraging Virtual Reality Before and During Oncology Treatments” (Technology: Research in Chronic and Critical Illness, T32 NR008857) **Lee YJ (Primary Mentor)**
2. Rachel Brazee, PhD, RN 2023 – Present  
 Technology: Research in Chronic and Critical Illness, T32 NR008857 **Lee YJ (Secondary Mentor)**

3. Gyuri Baek, PhD, MSN, RN 2024 – Present  
International Visiting Postdoctoral Researcher

### **Graduate Faculty Activity**

#### **Dissertation Committee Chair**

1. Vivian Hui, BSN, RN 2018 – 2022  
“Exploring Help-Seeking Behavior in Online Health Communities among Women with Domestic Violence Experiences”  
Current: Assistant Professor, The Hong Kong Polytechnic University (PolyU)

#### **Dissertation Committee Member**

1. Linden Wu, PhD, MSN, RN 2018– 2019  
“Relationships Among Cyber Dating Abuse, Binge Drinking, and Emotion Dysregulation in College Students” (Chair: Elizabeth Schlenk)
2. Janet Arida, PhD, RN 2016– 2020  
“Symptom Representations and Meaning-Making in Mothers with Recurrent Ovarian Cancer: A Mixed-Methods Investigation” (Chair: Heidi Donovan)
3. Tiffany Pellathy, PhD, ACNP-BC, RN 2018 – 2020  
“Predicting Dynamically Evolving New-Onset Venous Thromboembolic (VTE) Event Risk in Hospitalized Patients” (Chair: Marilyn Hravnak)
4. Yu Chi, BS (School of Computing and Information) 2020 – 2021  
“Health Consumers' Knowledge Learning in Online Health Information Seeking”  
Anticipated Defense: Summer, 2021 (Chair: Daqing He)
5. Khushboo Thaker, BS (School of Computing and Information) 2022 – Present  
“KA-Recsys: Knowledge Adaptive Recommendation Technologies”  
Anticipated Defense: Spring, 2024 (Chair: Daqing He)
6. Eun Young Lim, RN, MSN (College of Nursing, Seoul National University; Seoul, Korea) 2023 – Present  
  
“Development and Evaluation of Data Quality Management Tools for the Clinical Use of Patient-Generated Health Data”  
Anticipated Defense: Spring, 2024 (Chair: Hyeoneui Kim)

#### **Doctoral Advisee (PhD program)**

1. Youjia Wang, BSN, RN 2021 – Present  
Started PhD/DNP dual program in Fall, 2021

2. Alice Cline, BSN, RN 2023 – Present  
Secondary mentor of T32 pre-doctoral training program. Technology: Research in Chronic and Critical Illness, T32 NR008857

#### **MSN Advisee (Nursing Informatics Program)**

1. Danielle Siarri, MSN, RN 2015– 2016
2. Kathryn Fowler, MSN, RN 2015– 2016
3. Michelle Lienemann, MSN, RN 2015– 2016
4. Shelly Jones, MSN, RN 2015– 2016
5. Heidilyn Dolinich, MSN, RN 2015– 2016
6. Erin Wood, MSN, RN 2015– 2017
7. Clarissa Dangler, MSN, RN 2015– 2017
8. Tahirah Marks, MSN, RN 2015– 2019
9. Alexis Mathew, MSN, RN 2017– 2019
10. Angela Pizarra, BSN, RN (Anticipated graduate: Fall, 2021) 2018– Present
11. Catherine Schofield, BSN, RN (Anticipated graduate: Fall, 2021) 2018– Present
12. Joyce Gee, BSN, RN (Anticipated graduate: Spring, 2022) 2019– Present
13. Jose Enrique Cordova, BSN, RN (Anticipated graduate: Spring, 2022) 2019– 2022
14. Andrew Kaslewicz, BSN, RN (Anticipated graduate: Spring, 2022) 2019– Present
15. Kristin Kerfoot, BSN, RN (Anticipated graduate: Spring, 2022) 2020– 2022
16. Jeniffer Ignao, BSN, RN (Anticipated graduate: Summer, 2024) 2022– Present
17. Matthew Butoryak, BSN, RN (Anticipated graduate: Summer, 2024) 2022– Present

#### **Medical Student Research Mentoring (Primary Mentor)**

1. Chantel Brooks (Howard University) Summer, 2021  
T15 Summer Research (T15LM007059), Department of Biomedical Informatics, University of Pittsburgh
2. Adriana Rush (University of South Carolina) Summer, 2021  
T15 Summer Research (T15LM007059), Department of Biomedical Informatics, University of Pittsburgh

#### **Undergraduate Research Mentoring (Primary Mentor)**

1. Kojo Frimpong (Lincoln University) Summer, 2017  
“Development of a Detailed Clinical Model for Assessing Nausea” (Department of Biomedical Informatics CoSBBi Program, University of Pittsburgh)
2. Victoria Han (University of Pittsburgh) Summer, 2018  
“Dialog Act Classification for Automated Classification of Online Cancer Forum” (Department

of Biomedical Informatics CoSBBI Program, University of Pittsburgh) Poster presentation. American Medical Informatics Association Symposium 2019. November, 2019. Washington D.C.

3. Harleigh Niyu Hill (Duquesne University) Summer, 2019  
 “Understanding Symptoms in Patients with Ovarian Cancer: Use of Online Health Communities and a Graph-Based Database” (Department of Biomedical Informatics CoSBBI Program, University of Pittsburgh) Poster Presentation at Medical Informatics Europe 2020. April, 2020. Geneva, Switzerland; Podium Presentation at Oncology Nursing Society 45th Annual Congress. May, 2020. San Antonio, TX.
4. Jiayi (Jessie) Zhu (University of Pittsburgh) 2019–2020  
 “Discovering Factors Contributing to Distress in Family Caregivers of Women with Gynecologic Cancers” Poster Presentation at the National Conference on Undergraduate Research. March, 2020.
5. Nicole Salazar (University of Pittsburgh) 2020–2022  
 “The Nature and Normality of the Filipino Nurse” Awardee of Creative Arts Fellowship, University of Pittsburgh.
6. Rosslyn Scott (University of Pittsburgh) 2021–Present  
 Identifying most common concerns of ovarian cancer caregivers reported in online health communities (OHCs). National Conference on Undergraduate Research (NCUR). [Poster Presentation. National Conference on Undergraduate Research (NCUR). April 13-15, 2023. Eau Claire, WI]
7. Chelsea Chao (University of Pittsburgh) 2022–Present  
 A scoping review on the association between long-term exposure to ultraviolet radiation and the risk of developing ovarian cancer. [Poster Presentation. National Conference on Undergraduate Research (NCUR). April 13-15, 2023. Eau Claire, WI]

### **Other Research Trainees**

#### **Undergraduate Research Assistant (n=8)**

Kristin Hill (2017– 2019); Erin Rafferty (2017– 2019); Hannah Kunsak (2019–Present); James McLeod (2019– 2020); Jiayi (Jessie) Zhu (2019– 2020); Allie Sullivan (2020– 2021); Victoria Parisen (2021–Present); Rosslyn Scott (2021–Present), Chelsea Chao (2022–Present), Meredith Nawrocki (2022–Present)

#### **Graduate Students Researchers (n=8)**

School of Computing and Information: Daniel Przybylak (2019–2020); Heidi Reis (2019–2020); Kim Hung Chau (2019–2020); Zhendong Wang (2019–Present); Khushboo Thaker (2019–Present); Zhimeng Luo (2020–Present); Behnam Rahdari (2020–Present)

Nursing: Janet Arida (2016–2017); Leah Rosenblum (2020–2022)

### **PROFESSIONAL SERVICE**

**National Service**

1/2018 – 8/2018	American Nurse Association (ANA) Advisory Committee of the ANA Connected Health/Telehealth Professional Issues Panel
7/2020 – 3/2021	American Medical Informatics Association (AMIA) 2021 Informatics Summit Scientific Program Committee
9/2020 – 5/2021	American Medical Informatics Association (AMIA) 2021 Clinical Informatics Conference Scientific Program Committee
1/2021 – 12/2022	Elected Members-at-Large, American Medical Informatics Association (AMIA) Nursing Informatics Working Group
4/2021 – 8/2021	Artificial Intelligence for Function, Disability, and Health (AI4Function) 2021 Program Committee
7/2021 – 9/2021	Mentor, Machine Learning for Health (ML4H) (ML4H 2021) Mentorship Program
8/2021 – 3/2022	American Medical Informatics Association (AMIA) 2022 Informatics Summit Scientific Program Committee
1/2022 – 12/2023	American Medical Informatics Association (AMIA) Women in AMIA Awards and Leadership Subcommittee
3/2023 – 11/2023	American Medical Informatics Association (AMIA) Annual Symposium Scientific Program Committee
1/2023 – Present	NI 2024 Editorial Committee
11/2023 – Present	AIME 2024 (22nd International Conference of Artificial Intelligence) in Medicine Program Committee

**University of Pittsburgh**

9/2017 – 4/2020	Member, The Senate Computer Usage Committee
12/2019 – 12/2020	Committee, Data Science Task Force
11/2020 – 3/2021	Faculty Recruitment Committee, Information Culture and Data Stewardship Department in the School of Computing and Information
6/2021 – 12/2022	Committee, Year of Data and Society steering committee

**University of Pittsburgh School of Nursing**

5/2015 – Present	Member, BSN, MSN, and DNP Council
1/2018 – Present	Member, PhD Council



8/2022 – Present      Member, Department (Health and Community Sytems) finance committee

**Community Service**

5/2015 – Present      Member, UPMC Systems Informatics Council

1/2017 – 12/2017      Client Health Consultant, Community Human Services, Pittsburgh, PA

2/2021 – 3/2021      Translator, Southwestern Pennsylvania Contact Tracing Consortium