

## CURRICULUM VITAE

### **Soyoung Choi, PhD, RN**

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### **RESEARCH INTERESTS**

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Accessible and Universal Design in Healthcare  
 Cardiovascular and Chronic Care  
 Disability  
 Health Disparities  
 Family Caregiving

### **PROFESSIONAL SKILLS**

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Data Science	<i>R, Python, SQL</i>
Reproducible Reports	<i>Markdown, Rmarkdown, LaTeX</i>
Statistical Software	<i>SPSS, AMOS, Mplus</i>
Quantitative Research	<i>Regressions, MLM, PCA, Machine Learning Virtual Ethnography, Content Analysis</i>
Qualitative Research	<i>Text Mining, Quantitative Ethnography, Mixed Methods</i>
Languages	<i>English/Korean</i>

### **EDUCATION AND TRAINING**

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<u>Year</u>	<u>Degree</u>	<u>Institution</u>	<u>Location</u>
2020	Ph.D. in Nursing	The Pennsylvania State University	University Park, PA, USA
2016	MSN	Yonsei University	Seoul, South Korea
2011	BSN	Yonsei University	Seoul, South Korea

### **CURRENT LICENSE AND CERTIFICATION**

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	<u>Title</u>	<u>Type</u>
Activated	Registered Nurse, New York	RN
Activated	Registered Nurse, South Korea	RN
Permanent	Information Technology Qualification, South Korea	Office Software
Permanent	IBM Data Science Professional Certification Offered by IBM	Data Science
Permanent	Data Science Specialization Certification Offered by Johns Hopkins University	Data Science

Permanent	Python for Everybody Certification Offered by University of Michigan	Data Science
Permanent	Graduate Student Online Teaching Certificate Offered by Penn State World Campus	Teaching

## PEER-REVIEWED PUBLICATIONS

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1. **Choi, S.**, Kitko, L., Hupcey, J., Birriel, B., & Wang, S. (*In Progress*). Utilization of Text Mining in Healthcare Research, *Qualitative Health Research*.
2. **Choi, S.**, Kitko, L., Hupcey, J., Birriel, B., & Wang, S. (*In Progress*). Exploring the Lived Experience of Family Caregiving in Heart Failure: A Text Mining Approach, *International Journal of Nursing Studies*.
3. **Choi, S.**, Kitko, L., Hupcey, J., & Birriel, B. (*Under Review*). Longitudinal Family Caregiving Experiences in Heart Failure: Secondary Qualitative Analysis of Interviews, *Heart & Lung*.
4. Ko, I., Kim, J., & **Choi, S.** (2021). A Systematic Review of Measurement Properties of Spirituality Related Assessment Tools Published in Korean Journals, *Journal of Korean Academy of Fundamental Nursing*, 28(1), 133-148. DOI:10.7739/jkafn.2021.28.1.133
5. **Choi, S.**, & Seo, J. (2020). Trends of Healthcare Research for Visually Impaired and Blind People: Use of Bibliometrics and Hierarchical Clustering, *Ophthalmic Epidemiology*, DOI: 10.1080/09286586.2020.1863993
6. **Choi, S.** (2020). Evidence-Based Research in Nursing Science: A Reproducible Framework, *The Western Journal of Nursing Research*, DOI: 10.1177/0193945920977792
7. **Choi, S.**, Kitko, L., Hupcey, J. E., Birriel, B., & Wang, S. (2020). Data Science and Computational Linguistics on a Collection of Interviews with Family Caregivers in Heart Failure. *Journal of Cardiac Failure*, 26(10), S88.
8. Kim, S., **Choi, S.**, Seo, M., Kim, D., & Lee, K. (2020). Development of a Clinical Ethics Support Service (CESS) Education Program for Nurses Based on the ADDIE Model, *Research and Theory for Nursing Practice*, 34(3), 205-222.
9. **Choi, S.**, & Seo, J. (2020). An Exploratory Study of the Research on Caregiver Depression: Using Bibliometrics and LDA Topic Modelling. *Issues in Mental Health Nursing*, 1-10.
10. Ko, I., **Choi, S.**, & Kim, J. (2020). Development and Validation of the New Version of Spirituality Assessment Scale, *Journal of Korean Academy of Nursing*, 50(1), 1-15.
11. **Choi, S.**, & Seo, J. (2019). Trends in Self-Management among Adults with Heart Failure from 2011 to 2016 Using the National Health and Nutrition Examination Surveys. *Journal of Cardiac Failure*, 25(8), S4.
12. **Choi, S.**, & Seo, J. (2019). Analysis of Caregiver Burden in Palliative Care: An Integrated Review. *Nursing Forum (2019, February)*, 1-11.
13. **Choi, S.**, & Seo, J. (2019). Heart Failure Research Using Text Mining: A Systematic Review. *Nursing Research*, 68(2), E119-E120.
14. **Choi, S.**, & Seo, J. (2018). Effects of Nonpharmacological Interventions for Fatigue in Patients with Heart Failure: A Systematic Review and Meta-Analysis. *Journal of Cardiac Failure*, 24(8), S73-S74.
15. Ahn, S., **Choi, S.**, Kim, H., & Chu, S. (2018). Current Pharmacogenetic Approach for Oxaliplatin-Induced Peripheral Neuropathy among Patients with Colorectal Cancer: A Systematic Review, *Journal of Korean Biological Nursing Science*, 20(2), 55-66.
16. **Choi, S.**, & Ko, I. (2017). The Influence of Self-care Agency and Social Support as Factors Influencing Self-care Practice in Spinal Cord Injured Patients, *Korean Journal of Adult Nursing*, 29(6), 569-578.
17. Ko, I., **Choi, S.**, & Kim, J. (2017). Evolutionary Concept Analysis of Spirituality, *Journal of Korean Academy of Nursing*, 47(2), 242-256.

## CONFERENCE PROCEEDINGS

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1. Donegan, S., Porter, C., Fogel, A., Seo, J., **Choi, S.**, & Eagan, B. (2020). U.S. Media Coverage During COVID-19: An Epistemic Network Analysis of Bias, Topic, and Trajectory. International Virtual Conference on Quantitative Ethnography 2020. Jan 30 - Feb 2, 2021.
2. **Choi, S.**, Seo, J., & Kitko, L. (2019). Exploring the Lived Experience of a Family Member with Advanced Heart Failure: Using a Text Mining Approach. International Conference on Quantitative Ethnography 2019. Madison, Wisconsin, USA. Sep 20 –22, 2019.

## SOFTWARE DEVELOPMENTS AND PUBLICATIONS

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### Peer-Reviewed Data Mining Packages

1. Seo, J., & **Choi, S.** (2019). *Ezpickr: Easy data import using gui file picker and seamless communication between an excel and r*. Retrieved from <https://CRAN.R-project.org/package=ezpickr>
2. Seo, J., & **Choi, S.** (2019). *Mboxr: Reading, extracting, and converting an mbox file into a tibble*. Retrieved from <https://CRAN.R-project.org/package=mboxr>
3. Seo, J., & **Choi, S.** (2019). *youtubecaption: Downloading YouTube Subtitle Transcript in a Tidy 'Tibble' Data\_Frame*. Retrieved from <https://cran.r-project.org/web/packages/youtubecaption>

## HONORS AND AWARDS

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<u>Year</u>	<u>Title</u>	<u>Source</u>
2020	GKNF-USA Ann S. Jhin Scholarship Award	Global Korean Nursing Foundation, USA
2019	HFSA Nursing Investigator Award, Finalist	Heart Failure Society of America, USA
2017-2018	Fund for Excellence in Graduate Recruitment	The Pennsylvania State University, University Park, PA, USA
2016	Seoul Nursing Scholar Award	Seoul Nurses Association, South Korea
2010	Inducted into STTI as an undergraduate student who demonstrates academic excellence	Sigma Theta Tau International Honor Society of Nursing

## GRANTS

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<u>Year</u>	<u>Title</u>	<u>Source</u>
2020	Summer Tuition Assistance Funding	The Pennsylvania State University, University Park, PA, USA
2019	Student Travel Conference Funding	University Park Allocation Committee, University Park, PA, USA
2019	Summer Tuition Assistance Funding	The Pennsylvania State University, University Park, PA, USA
2018	Summer Tuition Assistance Funding	The Pennsylvania State University, University Park, PA, USA

## INVITED TALKS

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<u>Year</u>	<u>Title</u>	<u>Source</u>
2019	<p>“A Small Step to Take Your Data Analysis to Another Level”</p> <p>: Invited guest talk to CNU to teach nursing faculty and students for basic concept of machine learning, computer-assisted text mining, and topic modeling to improve their data analysis</p>	Chonnam National University, Gwangju, South Korea

## PRESENTATIONS

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### International

1. **Choi, S.**, Seo, J., & Kitko, L. (2019). Exploring the Lived Experience of a Family Member with Advanced Heart Failure: Using a Text Mining Approach, International Conference on Quantitative Ethnography 2019. Madison, Wisconsin, USA. Oct 20-22, 2019
2. **Choi, S.**, Ko, I., Choi, M., & Lee, J. (2016). Relationship of Self-Care Agency, Social Support, and Self-Care Practice in Spinal Cord Injured Patients, 4th China-Japan-Korea Nursing Conference. Beijing, China. Nov 12, 2016

### National

1. **Choi, S.**, Kitko, L., Hupcey, J., Birriel, B., & Wang, S. (2020). Data Science and Computational Linguistics on a Collection of Interviews with Family Caregivers in Heart Failure, Heart Failure Society of America Virtual Scientific Meeting 2020
2. **Choi, S.**, & Seo, J. (2019). Trends in Self-Management among Adults with Heart Failure from 2011 to 2016 Using the National Health and Nutrition Examination Surveys, Heart Failure Society of America 23<sup>rd</sup> Annual Scientific Meeting. Philadelphia, PA, USA. Sep 13-16, 2019
3. **Choi, S.**, & Seo, J. (2019). Analysis of Caregiver Burden in Palliative Care: An Integrated Review. Nursing Theory Conference, Nursing Theory: A 50-year perspective past and future. Cleveland, OH, USA. Mar 21, 2019
4. **Choi, S.**, & Seo, J. (2018). Effects of Nonpharmacological Interventions for Fatigue in Patients with Heart Failure: A Systematic Review and Meta-analysis, Heart Failure Society of America's 22<sup>nd</sup> Annual Scientific Meeting. Nashville Tennessee, USA. Sep 15, 2018

### Regional

1. **Choi, S.**, & Seo, J. (2019). A Global Snapshot of Simulation-Based Learning in Nursing Education. The Korean Society of Adult Nursing Conference 2019. Seoul, South Korea. May 24, 2019
2. **Choi, S.**, & Seo, J. (2019). Heart Failure Research Using Text Mining: Combining a Systematic Review with Bibliometric Analysis. The Pennsylvania State University, College of Medicine, University Park Campus Research Symposium. University Park, PA, USA. May 2, 2019
3. **Choi, S.**, & Seo, J. (2019). Heart Failure Research Using Text Mining: A Systematic Review. Eastern Nursing Research Society conference, 31st Annual Scientific Sessions. Providence, RI, USA. April 3-5, 2019
4. Ko, I., **Choi, S.**, & Kim, J. (2016). Concept Analysis of Spirituality: Evolutionary Method, The Korean Society of Nursing Science Annual Meeting. Seoul, South Korea. Oct 19, 2016

5. **Choi, S.**, Ko, I., Choi, M., & Lee, J. (2016). Relationship of Self-Care Agency, Social Support, and Self-Care Practice in Spinal Cord Injured Patients, Seoul Nursing Scholar Conference. Seoul, South Korea. Sep 27, 2017
6. **Choi, S.**, & Lee, J., Lee, S., Kim, S., Lee, J., Lee, H. (2016). Analysis of Research Trends in Journals of Korean Geriatric Nursing from 2005 to 2015, The Korean Gerontological Nursing Society 2016 Conference. Seoul, South Korea. Jun 17, 2016

## PROFESSIONAL EXPERIENCE

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<u>Year</u>	<u>Position</u>	<u>Institution</u>	<u>Location</u>
Oct 2011 - Aug 2014	RN	Endoscopy Center, Yonsei University Medical Center	Seoul, South Korea
April 2011 - Sep 2011	RN	Medical Intensive Care Unit, Yonsei University Medical Center	Seoul, South Korea

## TEACHING EXPERIENCE

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<u>Year</u>	<u>Position</u>	<u>Institution</u>	<u>Location</u>
2021 - Current	Research Assistant Professor	Yonsei University College of Nursing	Seoul, South Korea
<i>Undergraduate-Level Courses:</i>			
<ul style="list-style-type: none"> <li>• <i>Nursing Research (2 Credits)</i></li> <li>• <i>Pathophysiology (3 Credits)</i></li> <li>• <i>Integrated Nursing Practicum (0.5 Credits)</i></li> <li>• <i>Simulation-Based Nursing Practicum (0.5 Credits)</i></li> </ul>			
<i>Graduate-Level (MSN, DNP) Course:</i>			
<ul style="list-style-type: none"> <li>• <i>Management of Adult Health Problem (2 Credits)</i></li> <li>• <i>Advanced Health Assessment (3 Credits)</i></li> </ul>			
2018 - 2020	Teaching Assistant	The Pennsylvania State University College of Nursing	University Park, PA, USA
<i>Graduate-Level (MSN, DNP) Course:</i>			
<ul style="list-style-type: none"> <li>• <i>Evidence-Based Practice: Research Methods (3 Credits)</i></li> </ul>			
Aug 2014 - Jul 2017	Nursing Simulation Lab Instructor	Yonsei University College of Nursing	Seoul, South Korea
<i>Undergraduate-Level Courses:</i>			
<ul style="list-style-type: none"> <li>• <i>Introduction to Clinical Nursing Practice (3 Credits)</i></li> <li>• <i>Physical Examination &amp; Health Assessment (3 Credits)</i></li> </ul>			
Aug 2014 - Jul 2017	Teaching Assistant	Yonsei University College of Nursing	Seoul, South Korea
<i>Undergraduate-Level Courses:</i>			
<ul style="list-style-type: none"> <li>• <i>Critical Care Nursing (2 Credits)</i></li> <li>• <i>Evidence-Based Nursing (2 Credits)</i></li> </ul>			

## RESEARCH EXPERIENCE

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<u>Year</u>	<u>Position</u>	<u>Supervisor</u>	<u>Institution</u>	<u>Location</u>
2020	Research Assistant	Lisa Kitko, Associate Professor	The Pennsylvania State University College of Nursing	University Park, PA, USA
2018 - 2019	Research Assistant	Britney M. Wardecker, Assistant Professor	The Pennsylvania State University College of Nursing	University Park, PA, USA
2017	Research Assistant	Lisa Kitko, Associate Professor	The Pennsylvania State University College of Nursing	University Park, PA, USA
2014 - 2015	Research Assistant	Sanghee Kim, Associate Professor; Sanghee Chu, Associate Professor	Yonsei University College of Nursing	Seoul, South Korea

## SERVICE TO PROFESSION

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### Invited Journal Review

1. Journal of Hospital Management and Health Policy (2021)  
Editor: Audrey Lin; Manuscript NO. JHMHP-21-X
2. Heart & Lung (2020)  
Editor: Ardis O'Meara; Manuscript NO. HL-D-20-006XX
3. BMC Palliative Care (2020)  
Editor: Michael Connolly; Manuscript NO. PCAR-D-20-003XX
4. Heart & Lung (2020)  
Editor: Ardis O'Meara; Manuscript NO. HL-D-20-005XX
5. Cancer Immunology, Immunotherapy (2020)  
Editor: Haidong Dong; Manuscript NO. CIIM-D-20-003XX
6. BMC Palliative Care (2020)  
Editor: Nuriye Kupeli; Manuscript NO. PCAR-D-20-00XXX
7. Heart & Lung (2020)  
Editor: Nancy Redeker; Manuscript NO. HL-D-20-000XX
8. Heart & Lung (2019)  
Editor: Ardis O'Meara; Manuscript NO. HL-D-19-001XX
9. Nursing Forum (2019)  
Editor: Patricia Yoder-Wise; Manuscript NO. NF-07-19-OA1XX

## DEPARTMENTAL/UNIVERSITY SERVICE

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<u>Year</u>	<u>Title</u>	<u>Institution</u>	<u>Location</u>
2018 - 2019	Director of Doctoral Student Organization Mentoring Program Committee	The Pennsylvania State University College of Nursing	University Park, PA, USA

2015

Director of Graduate  
Student Council

Yonsei University  
Graduate School of  
Nursing

Seoul, South Korea

## **TEACHING AREAS AND COURSES PREPARED TO TEACH**

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- Introduction to the Fundamentals of Nursing
- Health Assessment
- Adult Health Nursing: Medical-Surgical Nursing
- Principles of Nursing Research and Evidence-Based Practice
- Quantitative Methods in Health Research
- Qualitative Methods in Health Research
- Data Mining Methods in Health Research
- Health Informatics

## **CURRENT PROFESSIONAL MEMBERSHIPS/AFFILIATIONS**

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- Member, American Nursing Informatics Association
- Member, American Medical Informatics Association
- Member, Global Korean Nursing USA Foundation
- Member, Heart Failure Society of America
- Member, Korean Society of Adult Nursing
- Member, Korean Society of Nursing Science
- Member, Sigma Theta Tau International Honor Society of Nursing
- Member, The Korean Society of Medical Informatics