Curriculum Vitae

Name:	Theresa A. Koleck (formerly Timcheck), PhD, RN			
Business Address:	University of Pittsburgh, School of Nursing 440 Victoria Building, 3500 Victoria Street Pittsburgh, PA 15261			
Birthplace:	Pittsburgh, PA			
Citizenship:	USA			
E-Mail Address:	tak150@pitt.edu			
	Education and Training			
Undergraduate 8/2007 – 4/2011	University of Pittsburgh Pittsburgh, PA	BSN Nursing Summa Cum Laude		
Graduate 5/2011 – 4/2016	University of Pittsburgh Pittsburgh, PA	PhD Nursing Minor, Healthcare Genetics		
Postgraduate 6/2016 – 5/2018	Columbia University New York, NY	Postdoctoral Research Fellowship Nursing Biomedical Informatics		
Appointments and Positions				
Academic 5/2020 – Present	University of Pittsburgh School of Nursing Pittsburgh, PA	Assistant Professor, Tenure Stream		
6/2018 - 3/2020	Columbia University School of Nursing New York, NY	Associate Research Scientist		

Licensure and Certification

2011 -	Present	Registered Professional Nurse (RN630283)	Pennsylvania		
Membership in Professional and Scientific Societies					
2021 – 2012 –	Present, 2014	Oncology Nursing Society (ONS)			
2020 -	Present	Council for the Advancement of Nursing Science (CANS)			
2016 –	Present	American Medical Informatics Association (AMIA)			
2012 –	Present 2021 – Pres 2020 – 2021 2015 – 2019 2015 – 2016	International Society of Nurses in Genetics (ISONG) 2022 ISONG Conference Co-Chair 2021 ISONG Conference Co-Chair ISONG Conference Planning Committee, Poster Bl Student Task Force Committee Member	itz Chair		
2012 –	Present 2017 – Pres 2015 – 2016 2014 – 2016 2014 – 2015	Sigma Theta Tau International Honor Society of Nursing Research Committee Chair, Eta Chapter Leadership Succession Committee Chair, Eta Chapter Scholars Night Event Organizer, Eta Chapter Leadership Succession Committee Member, Eta Ch			
2015 -	2017	American Society of Human Genetics (ASHG)			
2011 -	2016 2012 - 2016	University of Pittsburgh Doctoral Nursing Student Organiz Secretary	ation (DNSO)		
2011 -	2016	Eastern Nursing Research Society (ENRS)			

<u>Honors</u>

2022	"Characterizing Shared and Distinct Symptom Clusters in Common Chronic
	Conditions through Natural Language Processing of Nursing Notes" paper
	featured in the American Medical Informatics Association (AMIA)
	Nursing Informatics Year in Review
2022	Invited to serves as an All of Us Research Program Researcher Ambassador
2022	Awarded Research in Nursing & Health's 2021 Paper of the Year for
	"Characterizing Shared and Distinct Symptom Clusters in Common
	Chronic Conditions through Natural Language Processing of Nursing
	Notes"

2022	Invited to present at All of Us Research Program virtual Office Hours
2022	Invited by the All of Us Research Program to provide a video testimonial
	regarding experience using the All of Us Research Program Researcher
	Workbench due to being a "great representative for nurses in All of Us"
2021	"Identifying Symptom Information in Clinical Notes Using Natural Language
	Processing" paper featured in the "Informatics Year in Review"
	presentation at the American Medical Informatics Association (AMIA)
	2021 Annual Symposium
2021	American Journal of Health Promotion Paper of the Year award co-author
2019	All of Us Research Program Researcher Workbench Alpha-Phase User Tester
2018	Featured in Columbia Nursing Magazine "Masters of Information" article
	https://issuu.com/columbianursing/docs/columbia_nursing_fall_2018
2016	University of Pittsburgh School of Nursing Outstanding Graduate Research
	Award
2015	University of Washington Summer Institute in Statistical Genetics Scholarship &
	Travel Award
2015	Sigma Theta Tau International (STTI) Eta Chapter Ruth Perkins Kuehn
	Scholarship
2015	Featured on the International Society of Nurses in Genetics "Meet of Members"
	webpage http://www.isong.org/ISONG_members.php
2015	Best Poster Abstract in the Career Development & Leadership Category
	at the Women in Science and Medicine Association Doctoral Directions:
	Learning to Lead in Biomedicine Conference
2014	Nightingale Awards of Pennsylvania PhD Degree Scholarship
2014	University of Pittsburgh Graduate and Professional Student Government Travel
	Grant Award
2014	University of Pittsburgh Graduate Nursing Student Organization Travel Grant
	Award
2013	University of Pittsburgh Bessie Li Sze Memorial Scholarship
2012	University of Pittsburgh Bessie Li Sze Memorial Scholarship
2012	University of Pittsburgh PhD Student Poster Representative for the Eastern
	Nursing Research Society (ENRS) 24th Annual Scientific Sessions
2011	University of Pittsburgh "Keeper of the Light" (highest undergrad nursing GPA)

Publications

Refereed Articles

(*Denotes data-based; § Denotes senior author; ^ Denotes shared first authorship)

- ^Baumgartel, K., Zelazny, J., Timcheck, T., Snyder, C., Bell, M., & Conley, Y. (2012). Molecular genomic research designs. *Annual Review of Nursing Research*, 29, 1-26. doi:10.1891/0739-6686.29.1
- 2. ***Koleck, T. A.**, Bender, C. M., Sereika, S. M., Ahrendt, G., Jankowitz, R. C., McGuire, K. R., Ryan, C., & Conley, Y. P. (2014). Apolipoprotein E genotype and cognitive

function in postmenopausal women with early stage breast cancer. Oncology Nursing Forum, 41(6), E313-25. doi:10.1188/14.ONF.E313-E325

- 3. Koleck, T. A. & Conley, Y. P. (2016). Identification of candidate genes for symptom variability in breast cancer survivors based on disease characteristics at the cellular level. *Journal of Breast Cancer: Targets and Therapy*, *8*, 29-27. doi:10.2147/BCTT.S88434
- *Koleck, T. A., Bender, C. M., Sereika, S. M., Brufsky, A. M., Lembersky, B. C., McAuliffe, P. F., Puhalla, S. L., Rastogi, P., & Conley, Y. P. (2016). Polymorphisms in DNA repair and oxidative stress genes associated with pre-treatment cognitive function in breast cancer survivors: An exploratory study. *SpringerPlus*, *5*, 422. doi:10.1186/s40064-016-2061-4
- *Hopkins, K. G., Koleck, T. A., Ren, D., & Blazeck, A. M. (2016). The development and psychometrics of SEAT: Self-Efficacy Assessment Tool. *International Journal of Nursing Education*, 8(2), 185-190. doi:10.5958/0974-9357.2016.00072.6
- *Koleck, T. A., Bender, C. M., Sereika, S. M., Ryan, C. M., Ghotkar, P., Brufsky, A. M., Jankowitz, R. C., McAuliffe, P. F., Clark, B. Z., & Conley, Y. P. (2017). Associations between pathologic tumor features and preadjuvant therapy cognitive performance in women diagnosed with breast cancer. *Cancer Medicine*, 6(2), 339-48. doi: 10.1002/cam4.964
- *Myers, J. S., Koleck, T. A., Sereika, S. M., Conley, Y. P., & Bender, C. M. (2017). Perceived cognitive function for breast cancer survivors: Association of genetic and behaviorally related variables for inflammation. *Supportive Care in Cancer*, 25(8), 2475-2484. doi: 10.1007/s00520-017-3654-3
- *Koleck, T. A., Bender, C. M., Clark, B. Z., Ryan, C. M., Ghotkar, P., Brufsky, A., McAuliffe, P. F., Rastogi, P., Sereika, S. M., & Conley, Y. P. (2017). An exploratory study of host polymorphisms in genes that clinically characterize breast cancer tumors and pretreatment cognitive performance in breast cancer survivors. *Journal of Breast Cancer: Targets and Therapy*, 9, 95-110. doi: 10.2147/bctt.s123785
- *Jha, R. M., Koleck, T. A., Puccio, A. M., Okonkwo, D. O., Park, S-Y., Zusman, B. E., Clark, R. S. B., Shutter, L. A., Wallisch, J. S., Empey, P. E., Kochanek, P. M., & Conley, Y. P. (2018). Regionally clustered ABCC8 polymorphisms in a prospective cohort predict cerebral oedema and outcome in severe traumatic brain injury. *Journal of Neurology, Neurosurgery, and Psychiatry, 89*(11), 1152-1162. doi: 10.1136/jnnp-2017-317741
- *Bender, C. M., Merriman, J. D., Sereika, S. M., Gentry, A. L., Casillo, F. E., Koleck, T. A., Rosenzweig, M. Q., Brufsky, A. M., McAuliffe, P., Zhu, Y., & Conley, Y P. (2018). Trajectories of cognitive function and associated phenotypic and genotypic factors in breast cancer. *Oncology Nursing Forum*, 45(3), 308-326. doi: 10.1188/18.ONF.308-326
- 11. *Merriman, J., Sereika, S. M., Conley, Y. P., Koleck, T. A., Zhu, Y., Phillips, M. L., Bertocci, M. A., Brufsky, A. M., & Bender, C. M. (2018). Exploratory study of associations between DNA repair and oxidative stress gene polymorphisms and cognitive problems reported by postmenopausal women with and without breast cancer. *Biological Research for Nursing, 21*(1), 50-60. doi: 10.1177/1099800418799964
- *Koleck, T. A., Suero-Tejeda, N., & Bakken, S. (2018). The influence of Latino symptom status on participation in usual activities and satisfaction with participation in social roles. *Hispanic Health Care International*, 16(3), 134-144. doi: 10.1177/1540415318803947

- 13. Lor, M., **Koleck, T. A.**, & Bakken, S. (2018). Information visualizations of symptom information for patients and providers: a systematic review. *Journal of the American Medical Informatics Association*, *26*(2), 162-171. doi: 10.1093/jamia/ocy153
- 14. *Jha, R. M., Desai, S. M., Zusman, B. E., Puccio, A. M., Okonkwo, D. O., Park, S-Y., Koleck, T. A., Shutter, L. A., Kochanek, P. M., & Conley, Y. P. (2019). Downstream TRPM4 polymorphisms are associated with intracranial hypertension and statistically interact with ABCC8 polymorphisms in a prospective cohort of severe traumatic brain injury. *Journal of Neurotrauma*, 36(11), 1804-1817. doi: 10.1089/neu.2018.6124
- 15. *Lor, M., Koleck, T. A., Bakken, S., Yoon, S., & Navarra, M. (2019). Association between health literacy and medication adherence among Hispanics. *Journal of Racial and Ethnic Health Disparities*, *6*(3), 517-524. doi: 10.1007/s40615-018-00550-z
- Koleck, T. A., Dreisbach, C., Bourne, P. E., & Bakken, S. (2019). Natural language processing of symptoms documented in free-text narratives of electronic health records: a systematic review. *Journal of the American Medical Informatics Association*, 26(4), 364-379. doi: 10.1093/jamia/ocy173
- Dreisbach, C., Koleck, T. A., Bourne, P. E., & Bakken, S. (2019). A systematic review of natural language processing and text mining of symptoms from electronic patientauthored text data. *International Journal of Medical Informatics*, 125, 37-46. doi: 10.1016/j.ijmedinf.2019.02.008
- *Hickey, K. T., Wan, E., Garan, H., Biviano, A. B., Marrow, J. P., Sciacca, R. R., Reading, M., Koleck, T. A., Caceres, B., Zhang, Y. Goldenthal, I., Riga, T. C., & Creber, R. M. (2019). A nurse-led approach to improving cardiac lifestyle modification in an atrial fibrillation population. The Journal of Innovations in Cardiac Rhythm Management, 10(9), 3826-3835. doi: 10.19102/icrm.2019.100902
- 19. Bakken, S., Arcia, A., **Koleck, T.**, Merrill, J. A., & Hickey, K. T. (2019). Informatics and data science for the Precision in Symptom Self-Management Center. *Studies in Health Technology and Informatics*, *264*, 1827-1828. doi: 10.3233/SHTI190668
- Zhu, Y., Koleck, T. A., Bender, C. M., Conley, Y. P. (2020). Genetic underpinnings of musculoskeletal pain during treatment with aromatase inhibitors for breast cancer: a biological pathway analysis. *Biological Research for Nursing*, 22(2), 263-276. doi: 10.1177/1099800419895114
- 21. *Caceres, B. A., Hickey, K. T., Bakken, S. B., Biviano, A. B., Garan, H., Goldenthal, I. L., Koleck, T. A., Masterson-Creber, R., Turchioe, M. R., & Jia, H. (2020). Mobile electrocardiogram monitoring and health-related quality of life in patients with atrial fibrillation: findings from the iPhone Helping Evaluate Atrial Fibrillation Rhythm Through Technology (iHEART) Study. *The Journal of Cardiovascular Nursing*, 35(4), 327-336. doi: 10.1097/JCN.0000000000646
- 22. §Dreisbach, C. & Koleck, T. A. (2020). The state of the data science in genomic nursing. *Biological Research for Nursing*, 22(3), 309-318. doi: 10.1177/1099800420915991
- 23. *Arockiaraj, A. I., Liu, D., Shaffer, J. R., Koleck, T. A., Crago, E. A., Weeks, D. E., & Conley, Y. P. (2020). Methylation data processing protocol and comparison of blood and cerebral spinal fluid following aneurysmal subarachnoid hemorrhage. *Frontiers in Genetics*, 11, 671. doi: 10.3389/fgene.2020.00671
- 24. ***Koleck, T. A.**, Mitha, S. A., Biviano, A., Caceres, B. A., Corwin, E. J., Goldenthal, I., Creber, R. M., Turchioe, M. R., Hickey, K. T., & Bakken, S. (2020). Exploring depressive symptoms and anxiety among patients with atrial fibrillation and/or flutter at

the time of cardioversion or ablation. *Journal of Cardiovascular Nursing*, *36*(5), 470-481. doi: 10.1097/JCN.000000000000723

- 25. *Caceres, B. A., Turchioe, M. R., Pho, A., Koleck, T. A., Creber, R. M., Bakken, S. B. (2020). Sexual identity and racial/ethnic differences in awareness of heart attack and stroke symptoms: findings from the National Health Interview. *American Journal of Health Promotion*, 35(1), 57-67. doi: 10.1177/0890117120932471
- 26. *Koleck, T. A., Tatonetti, N. P., Bakken, S. B., Mitha, S., Henderson, M. M., George, M., Miaskowski, C., Smaldone, S., & Topaz, M. (2020). Identifying symptom information in clinical notes using natural language processing. *Nursing Research*, 70(3), 173-183. doi: 10.1097/NNR.00000000000488
- *Topaz, M., Koleck, T. A., Onorato, N., Smaldone, A., & Bakken, S. (2021). Nursing documentation of symptoms is associated with higher risk of emergency department visits and hospitalizations in homecare patients. *Nursing Outlook, S0029-6554*(20), 30714-4. doi: 10.1016/j.outlook.2020.12.007
- 28. *Masterson Creber, R. M., Reading Turchioe, M., Biviano, A., Caceres, B., Garan, H., Goldenthal, I., Koleck, T., Mitha, S., Hickey, K., & Bakken, S. (2021). Cardiac symptom burden and arrhythmia recurrence drives digital health use: results from the iHEART randomized controlled trial. *European Journal of Cardiovascular Nursing*, Epub ahead of print. doi: 10.1093/eurjcn/zvab009
- *Koleck, T. A., Topaz, M., Tatonetti, N. P., George, M., Miaskowski, C., Smaldone, A., & Bakken, S. (2021). Characterizing shared and distinct symptom clusters in common chronic conditions through natural language processing of nursing notes. *Research in Nursing & Health, 44*(6), 906-919. doi: 10.1002/nur.22190
- 30. ***Koleck, T. A.** & Lor, M. (2021). Do limited English proficiency and language moderate the relationship between mental health and pain? *Pain Management Nursing*, Epub ahead of print. doi: 10.1016/j.pmn.2021.10.005
- 31. *^Lor, M., & Koleck, T. A. (2022). Patient race, ethnicity, language, and pain severity in primary care: a retrospective electronic health record study. *Pain Management Nursing*, Epub ahead of print. doi: 10.1016/j.pmn.2022.01.007
- 32. *Lor, M., Koleck, T. A., Lee, C., Moua, Z., & Uminski, J. E. (2022). Documentation of pain care and treatment for limited English proficiency minority patients with moderate-to-severe pain in primary care. *Wisconsin Medical Journal*, Epub ahead of print.
- 33. Heinsberg, L. W., Koleck, T. A., Ray, M., Weeks, D. E., & Conley, Y.P. (2022) Advancing nursing research through interactive data visualization with R shiny. *Biological Research for Nursing*, Epub ahead of print. doi: 10.1177/10998004221121109
- 34. *§Dreisbach, C., Grayson, S., Leggio, K., Conway, A., & Koleck, T. (2022). Predictors of unrelieved symptoms in *All of Us* Research Program participants with chronic conditions. *Journal of Pain and Symptom Management*, 64(6), 555–566. doi: 10.1016/j.jpainsymman.2022.08.018
- 35. *South, K., Bakken, S., Koleck, T., Barcelona, V., Elhadad, N., & Dreisbach, C. (2022). Women's experiences of symptoms of suspected or confirmed COVID-19 illness during the pandemic. *Nursing for Women's Health*, S1751-4851(22)00218-5. Epub ahead of print. doi: 10.1016/j.nwh.2022.09.005
- 36. §Grayson, S. C., Patzak, S. A., Dziewulski, G., Shen, L., Dreisbach, C., Lor, M., Conway, A., & Koleck, T. A. (2022). Moving beyond Table 1: A critical review of the

literature addressing social determinants of health in chronic condition symptom cluster research. *Nursing Inquiry*, e12519. Epub ahead of print. doi: 10.1111/nin.12519

Book Chapters and Books

- 1. Bakken, S. & Koleck, T. A. (2019). Big data challenges from a nursing perspective. In M. Househ, A. Kushniruk, & E. Borycki (Eds.) *Big Data Big Challenges: A Healthcare Perspective*. New York, NY: Springer.
- 2. Bakken, S., Koleck, T. A., Dreisbach, C., Hickey, K. T. (2020). Precision health from a big data perspective. In S. Dorsey & A. Starkweather (Eds.) *Genomics of Pain and Co-Morbid Symptoms*. New York, NY: Springer Nature.

<u>Research</u>

Principal Investigator

<u>Funding Agency and Grant Number</u>: National Institute of Nursing Research F31NR014590 <u>Title of Grant</u>: Cognitive Function and Breast Cancer: Genomics and Disease Characteristics <u>Years Inclusive and Percent Effort</u>: December 2013 – April 2016 <u>Total Amount of Award</u>: \$16,000 tuition/year; ~\$22,000 stipend/year; \$4,200 institutional allowance/year

<u>Funding Agency and Grant Number</u>: Sigma Theta Tau International Eta Chapter Research Award <u>Title of Grant</u>: Cognitive Function and Breast Cancer: Genomics and Disease Characteristics <u>Years Inclusive and Percent Effort</u>: March 2014 – April 2016 <u>Total Amount of Award</u>: \$2,500 total <u>Funding Agency and Grant Number</u>: Nightingale Awards of Pennsylvania <u>Title of Grant</u>: PhD Degree Scholarship <u>Years Inclusive and Percent Effort</u>: April 2014 – March 2016

Total Amount of Award: \$3,000 total

<u>Funding Agency and Grant Number</u>: University of Pittsburgh School of Nursing PhD Student Research Award <u>Title of Grant</u>: Cognitive Function and Breast Cancer: Genomics and Disease Characteristics <u>Years Inclusive and Percent Effort</u>: July 2014 – Aug 2015 <u>Total Amount of Award</u>: \$1,058 total

<u>Funding Agency and Grant Number</u>: American Cancer Society DSCN-14-076-01-SCN <u>Title of Grant</u>: Doctoral Degree Scholarship in Cancer Nursing <u>Years Inclusive and Percent Effort</u>: July 2014 – June 2016 <u>Total Amount of Award</u>: \$15,000/year <u>Funding Agency and Grant Number</u>: National Institute of Nursing Research K99NR017651 <u>Title of Grant</u>: Advancing Chronic Condition Symptom Cluster Science Through Use of Electronic Health Records and Data Science Techniques <u>Years Inclusive and Percent Effort</u>: June 2018 – March 2020, 75% <u>Total Amount of Award</u>: \$20,000 research expenses/year; \$50,000 salary support/year

<u>Funding Agency and Grant Number</u>: National Institute of Nursing Research R00NR017651 <u>Title of Grant</u>: Advancing Chronic Condition Symptom Cluster Science Through Use of Electronic Health Records and Data Science Techniques <u>Years Inclusive and Percent Effort</u>: June 2020 – May 2023, 75% <u>Total Amount of Award</u>: \$249,000 total costs/year

<u>Funding Agency and Grant Number</u>: University of Pittsburgh School of Nursing Center for Research and Education Pilot/Feasibility Program <u>Title of Grant</u>: Natural Language Processing for the Identification of Dimensions of the Symptom Experience from Text-Based Clinical Notes <u>Years Inclusive and Percent Effort</u>: January 2022 – December 2022 <u>Total Amount of Award</u>: \$14,352 total

Co-Investigator

<u>Principal Investigator and Institution</u>: Suzanne Bakken (Center PI) & Maxim Topaz (Pilot PI), Columbia University <u>Funding Agency and Grant Number</u>: National Institute of Nursing Research P30NR016587 <u>Title of Grant</u>: Precision in Symptom Self-Management (PriSSM) Center Pilot Study -Advancing Symptom Science in Home Care through Natural Language Processing and Patient-Reported Outcomes <u>Years Inclusive and Percent Effort</u>: November 2019 – November 2021, contributed effort

<u>Principal Investigator and Institution</u>: Rebekah Miller (PI), University of Pittsburgh <u>Funding Agency and Grant Number</u>: Pitt Seed Projects <u>Title of Grant</u>: Disrupting Health Dis- and Misinformation in the Patient-Care Setting: Open Educational Resources for Nurse Education <u>Years Inclusive and Percent Effort</u>: July 2022 – June 2023, 5%

Consultant

<u>Principal Investigator and Institution</u>: Suzanne Bakken (Center PI) & Caitlin Dreisbach (Pilot PI), Columbia University

<u>Funding Agency and Grant Number</u>: National Institute of Nursing Research P30NR016587 <u>Title of Grant</u>: Precision in Symptom Self-Management (PriSSM) Center Pilot Study -Clustering and Validation of COVID-19 Symptom Phenotypes for Hispanic/Latina Women <u>Years Inclusive and Percent Effort</u>: November 2020 – May 2022, symptom phenotyping consultant

Trainee

<u>Principal Investigator and Institution</u>: Yvette Conley, University of Pittsburgh <u>Funding Agency and Grant Number</u>: National Institute of Nursing Research T32NR009759 <u>Title of Grant</u>: Targeted Research and Academic Training Program for Nurses in Genomics <u>Years Inclusive and Percent Effort</u>: April 2011 – November 2013 <u>Total Amount of Award</u>: \$16,000 tuition/year; ~\$22,000 stipend/year

<u>Principal Investigator and Institution</u>: Suzanne Bakken, Columbia University <u>Funding Agency and Grant Number</u>: National Institute of Nursing Research T32NR007969 <u>Title of Grant</u>: Reducing Health Disparities Through Informatics <u>Years Inclusive and Percent Effort</u>: June 2016 – May 2018 <u>Total Amount of Award</u>: \$8,850 training related expenses/year; ~\$44,000 stipend/year

Other Scholarly Activities

Manuscript Reviewer

Applied Clinical Informatics Bioscience Reports Computers, Informatics, Nursing Health Informatics Journal Journal of the American Medical Informatics Association Journal of Nursing Measurement Journal of Pain and Symptom Management Scientific Reports The Lancet Oncology

National Institutes of Health Study Section Reviewer

2/2022Clinical Data Management and Analysis (CDMA)6/2022Agency for Healthcare Research and Quality Special Emphasis Panel

Unpublished Presentations

International

 Koleck, T. A., & Conley, Y. P. (2013, October). Identification of candidate genes for investigation of symptom variability in women with and receiving treatment for breast cancer. Poster presentation at the International Society of Nurses in Genetics Silver Anniversary Conference, Bethesda, MD.

- Koleck, T. A. (2014, November). Research Oncology The Science of Symptoms: Use of DNA repair and oxidative stress gene risk/protective scores to predict cognitive function in women with breast cancer. Invited podium presentation at the International Society of Nurses in Genetics World Congress on Nursing and Genomics, Scottsdale, AZ.
- Koleck, T., Bender, C., Sereika, S., Ghotkar, P., & Conley, Y. (2015, November). Oncotype DX Recurrence Score associated with pre-adjuvant therapy executive function performance in postmenopausal women with breast cancer. Poster presentation at the 2015 International Society of Nurses in Genetics World Congress: Epigenetics Across the Life Span, Pittsburgh, PA.
- Zhu, Y., Conley, Y., Koleck, T., Merriman, J., Sereika, S., & Bender, C. (2017, November). Pre-systemic treatment pain severity and variant in CYP19A1 rs700519 genotype contribute to worse pain severity during aromatase inhibitor treatment for breast cancer. Poster presentation at the 2017 International Society of Nurses in Genetics World Congress: Precision Nursing – Through Research, Education and Practice, Reston, VA.
- Koleck, T. A., Bakken, S., Hickey, K., & Tatonetti, N. (2017, November). *Clinical documentation of genetic counseling-related emotional distress in electronic health record narratives*. Podium presentation at the 2017 International Society of Nurses in Genetics World Congress: Precision Nursing Through Research, Education and Practice, Reston, VA.
- 6. Koleck, T. A., Tatonetti, N. P., & Hickey, K. T. (2018, October). *Clinical evaluation and genetic testing for an underlying cardiac channelopathy following an out-of-hospital cardiac arrest*. Podium presentation at the 2018 International Society of Nurses in Genetics World Congress: Building Connections to Genomic Health, Orlando, FL.
- Koleck, T. A. & Dreisbach, C. (2018, October). State of the (data) science in nursing and genomics. Invited plenary session presentation at the 2018 International Society of Nurses in Genetics World Congress: Building Connections to Genomic Health, Orlando, FL.
- 8. Koleck, T. A. & Dreisbach, C. (2018, October). *State of the (data) science in nursing and genomics lab.* Invited workshop at the 2018 International Society of Nurses in Genetics World Congress: Building Connections to Genomic Health, Orlando, FL.
- Bakken, S., Arcia, A., Koleck, T., Merill, J. A., & Hickey, K. T. (2019, August). *Informatics and data science for the Precision in Symptom Self-Management Center*. Poster presentation at the 17th World Congress of Medical and Health Informatics (MedInfo2019), Lyon, France.
- Bakken, S., Koleck, T., Arcia, A., & Smaldone, A. (2019, August). Precision health approaches for advancing symptom science and self-management. Panel presentation at the 17th World Congress of Medical and Health Informatics (MedInfo2019), Lyon, France.
- 11. Koleck, T. A., Hickey, K. T., Merrill, J. A., & Bakken, S. (2019, November). *Tailored genetic workshops, individual consultation, and a biobank/data repository to improve nurse scientist genetic knowledge*. Podium presentation at the 2019 International Society of Nurses in Genetics World Congress: Transforming Health Through Genomic Nursing, San Antonia, TX.
- 12. Lor, M. & Koleck T. A. (2021, June). *Do limited English proficiency and language moderate the relationship between mental health and pain?* Poster presentation at the

2021 International Association for the Study of Pain Virtual World Congress on Pain, Virtual.

- 13. Koleck, T. A. (2021, November). Data-driven characterization of symptom clusters in a diverse cohort of adults diagnosed with cancer: an analysis of National Institutes of Health All of Us Research Program participant data. Poster presentation at the 2021 International Society of Nurses in Genetics World Congress: Promoting Diversity, Inclusion, and Health Equity in Genomic Nursing, Virtual.
- 14. Yvette, C. & Koleck, T. A. (2021, November). *Leveraging national databases to accelerate your research.* Pre-congress workshop at the 2021 International Society of Nurses in Genetics World Congress: Promoting Diversity, Inclusion, and Health Equity in Genomic Nursing, Virtual.
- 15. Davis, T., Koleck, T., Conway, A., Bender, C., & Conley, Y. (2022, November). Genetic variation of DNA repair and oxidative stress genes in women with breast cancer-related fatigue pre-treatment. Poster presentation at the 2022 International Society of Nurses in Genetics World Congress: Holistic Approaches to Precision Health: Intersection of Research, Education, Practice, and Policy, Durham, NC.

National

- 1. **Timcheck, T. A.**, Wesmiller, S., Bender, C. M., & Conley, Y. P. (2012, November). *Apolipoprotein E genotype and cognitive function in postmenopausal women with early stage breast cancer receiving adjuvant chemotherapy and/or hormonal therapy*. Poster presentation at the Oncology Nursing Society Connections: Advancing Care Through Science Conference, Phoenix, AZ.
- Koleck, T. A., Sereika, S. M., Bender, C. M., & Conley, Y. P. (2013, November). DNA repair gene variation and cognitive function in postmenopausal women with early stage breast cancer. Podium presentation at the Oncology Nursing Society Connections: Advancing Care Through Science Conference, Dallas, TX.
- 3. Koleck, T., Bender, C., Sereika, S., & Conley, Y. (2015, October). *Variation in genes* used for multigene expression profiling are associated with pretreatment cognitive function in postmenopausal women with breast cancer. Poster presentation at the American Society of Human Genetics Annual Meeting, Baltimore, MD.
- Arockiaraj, A., Koleck, T. A., Shaffer, J. R., Sherwood, P. R., Crago, E. A., Poloyac, S. M., Weeks, D. E., & Conley, Y. P. (2016, October). *EWAS of delayed cerebral ischemia in stroke patients*. Poster presentation at the American Society of Human Genetics Annual Meeting, Vancouver, BC, Canada.
- 5. Myers, J., **Koleck, T.**, Sereika, S., Conley, Y., Bender, C. (2017, May). *Genetic and behavioral factors associated with perceived cognitive function for breast cancer survivors*. Poster presentation at the Oncology Nursing Society 42nd Annual Congress, Denver, CO.
- Bender, C., Merriman, J., Koleck, T., Sereika, S., Zhu, Y., & Conley, Y. (2017, May). Variants in DNA repair genes associated with cognitive function in women with breast cancer. Poster presentation at the Oncology Nursing Society 42nd Annual Congress, Denver, CO.
- 7. Jha, R., Puccio, A., Okonkwo, D., Zusman, B., Koleck, T., Wallisch, J., Shutter, L., Kochanek, P., & Conley, Y. (2018, February). *TRPM-4 single-nucleotide polymorphisms*

correlate with cerebral edema in traumatic brain injury. Poster presentation at the Society of Critical Care Medicine 47th Critical Care Congress, San Antonio, TX.

- 8. Zhu, Y., Bender, C., **Koleck, T.**, & Conley, Y. (2018, May). *Genes associated with musculoskeletal symptoms during treatment of aromatase inhibitor for breast cancer: a literature review with biological pathway analysis.* Podium presentation at the Oncology Nursing Society 43rd Annual Congress, Washington, DC.
- 9. Hickey, K., Koleck, T., & Reading, M. (2018, September). *Precision cardiac symptom self-management with mHealth*. Podium presentation at the Council for the Advancement of Nursing Science 2018 State of the Science Congress on Nursing Research: Precision Health, Washington, DC.
- Lor, M., Koleck, T. A., & Bakken, S. (2018, November). Visualizations to enhance communication of symptom information for patients and providers: a systematic review. Poster presentation at the American Medical Informatics Association 2018 Annual Symposium, San Francisco, CA.
- 11. Koleck, T. A., Bakken, S., & Tatonetti, N. P. (2018, November). Comparison of electronic medication orders versus administration records for identifying prevalence of postoperative nausea and vomiting. Poster presentation at the American Medical Informatics Association 2018 Annual Symposium, San Francisco, CA.
- 12. Koleck, T. A., Bakken, S., & Tatonetti, N. P. (2019, November). *Chronic condition symptom enrichment from electronic health records*. Poster presentation at the American Medical Informatics Association 2019 Annual Symposium, Washington, DC.
- 13. Wagner, M. A., Koleck, T. A., Bender, C. M., & Conley, Y. P. (2021, February). Polymorphisms in DNA repair and oxidative stress genes associated with pre-treatment pain in breast cancer. Poster presentation at the Symptom Science Advances in Oncology Nursing sponsored by National Institute of Nursing Research, the National Cancer Institute Center for Cancer Research, and the Oncology Nursing Society, Virtual Event.
- 14. Driesbach, C., South, K., Koleck, T. A., Barcelona, V., Elhadad, N., Mamykina, O., & Bakken, S. (2021, May). *Clustering and validation of COVID-19 symptom phenotypes in Hispanic/Latina women*. Poster presentation at the American College of Obstetricians and Gynecologists (ACOG), 2021 ACOG Annual Clinical and Scientific Meeting: Personalizing Care: A Way to the Future, Virtual.
- 15. Koleck, T. A. (2021, August). Application of digital phenotyping in precision health intervention: using All of Us Research Program participant data for symptom science. Invited presentation at the University of Texas at Austin School of Nursing Precision Health (T32) Methodology Summer Boot Camp, Virtual.
- 16. Dreisbach, C., South, K., Koleck, T. A., Barcelona, V., Mamykina, L., Elhadad, N., & Bakken, S. (2021, November). *Informing symptom science using a citizen science application in the COVID-19 pandemic*. Late breaking presentation at the American Medical Informatics Association 2021 Annual Symposium, San Diego, CA.
- 17. Koleck, T. A., Patzak, S. A., Dziewulski, G., Shen, L., Dreisbach, C., Lor, M., Conway, A., & Grayson, S. C. (2022, September). A critical review of social determinants of health in chronic condition symptom cluster research. Podium presentation at the Council for the Advancement of Nursing Science 2022 State of the Science Congress on Nursing Research: Social & Structural Determinants of Health, Washington, DC.

- 18. Koleck, T. A., Grayson, S., Leggio, K., Conway, A., & Dreisbach, C. (2022, November). Symptom phenotypes and predictors of unrelieved symptoms in individuals with chronic conditions: a cross-sectional analysis of the All of Us Research Program survey data. Poster presentation at the American Medical Informatics Association 2022 Annual Symposium, Washington, DC.
- 19. Davis, T., **Koleck, T.**, Conway, A., Bender, C., & Conley, Y. (2023, February). Genetic variation of DNA repair and oxidative stress genes in women with breast cancer-related fatigue pre-treatment. Podium presentation at the Sigma Theta Tau International Honor Society of Nursing's (Sigma's) Creating Healthy Work Environments 2023, Austin, TX.

Regional

- 1. **Timcheck, T.**, Wesmiller, S., Bender, C., & Conley, Y. (2012, March). *Apolipoprotein E genotype and cognitive function in postmenopausal women with early stage breast cancer prior to initiation of adjuvant therapy*. Poster presentation at the Eastern Nursing Research Society 24th Annual Scientific Sessions, New Haven, CT.
- Koleck, T. A. (2016, September). Symptom science: associations between breast cancer biology and cognitive performance in breast cancer survivors. Invited presentation at the Excela Health 2nd Annual Dissemination of Nursing QI, Evidence, & Research Forum: Nursing Implications for At Risk Populations, Westmoreland Hospital, Greensburg, PA.
- 3. Koleck, T. A. (2019, May). *An introduction to targeted cancer therapies*. Invited presentation at the Genomics for Nursing Research and Practice International Society of Nurses in Genetics Regional Meeting, Pittsburgh, PA.
- Lor, M. & Koleck, T. A. (2021, March). Patient race, ethnicity, language, and pain severity in primary care: A retrospective electronic health record study. Podium presentation at the Midwest Nursing Research Society 45th Annual Research Conference, Des Moines, IA.
- 5. Wagner, M. A., Koleck, T. A., Bender, C. M., & Conley, Y. P. (2021, October). Polymorphisms in DNA repair and oxidative stress genes associated with pain in breast cancer survivors at baseline and at six months after initiation of aromatase inhibitor therapy. Podium presentation at the Great Lakes Breast Cancer Symposium, Virtual.

Local

- 1. Baumgartel, K. L., **Koleck, T. A.**, Osier, N., & Conley, Y. P. (2015, March). *Molecular genomics fellowship program for future nurse scientists*. Poster presentation at the Women in Science and Medicine Association Doctoral Directions: Learning to Lead in Biomedicine Conference, Pittsburgh, PA.
- 2. Koleck, T. A. (2017, June). *The genetics of objective neuro-cognitive function presurgery to post-chemo/aromatase inhibitor therapy*. Invited presentation at the 29th Annual UPMC Hillman Cancer Center Scientific Retreat and Satellite Conference, Pittsburgh, PA.
- Driesbach, C., South, K., Koleck, T. A., Barcelona, V., Elhadad, N., Mamykina, O., & Bakken, S. (2021, April). *Clustering and validation of COVID-19 symptom phenotypes in Hispanic/Latina women*. Presentation at Columbia University Data Science Institute Virtual Data Science Day 2021, Virtual.

- 4. Wagner, M. A., Koleck, T. A., Bender, C. M., & Conley, Y. P. (2021, October). Polymorphisms in DNA repair and oxidative stress genes associated with pain in breast cancer survivors at baseline and at six months after initiation of aromatase inhibitor therapy. Poster presentation at the UPMC Hillman Cancer Center 2021 Annual Scientific Retreat, Pittsburgh, PA.
- 5. Davis, T., Koleck, T., Conway, A., Bender, C., & Conley, Y. (2022, October). *Oxidative* stress and DNA repair genetic variability and gene risk models for pre-treatment cancer-related fatigue in women with early-stage breast cancer. Podium presentation at the UPMC Hillman Cancer Center 2022 Annual Scientific Retreat, Pittsburgh, PA.

Service

School of Nursing	
2021 – Present	Honors Committee
2021 – Present	PhD Program Preliminary Examination Reviewer

Teaching

Primary Teacher

Term/ Years	Course Number & Title	No. of Students	Level	Didactic or Clinical
Summer 2022	NUR3060 Independent Study: <i>Harmonizing</i> <i>Electronic Health Record Information and</i> <i>Complex Omics Data Sets</i> Student: Susan Grayson	1	PhD	Research
Fall 2021 Spring 2022 Fall 2022 Spring 2023	NUR0067 Nursing Research: An Introduction to Critical Appraisal and Evidence-based Practice	80-95	Undergrad	Didactic
Fall 2021	NUR3060 Independent Study: Symptom Clusters and Social Determinants of Health Student: Susan Grayson	1	PhD	Research practicum

Fall 2021	NUR3060 Independent Study: <i>Natural Language</i> <i>Processing</i> Student: Karina Kraevsky-Phillips	1	PhD	Research practicum
Spring 2021	NUR0086 Nursing Informatics	98	Undergrad	Didactic
2018- 2019	Columbia University School of Nursing P30 Precision in Symptom Self-Management (PriSSM) Center Genomics Workshop Series	30	Faculty and Graduate	Didactic

Lecturer / Guest Lecturer

Term/ Years	Course Number & Title	No. of Students	Level	Topic of Lecture
Fall 2022	NUR3082 Introduction to Machine Learning in Healthcare	5	Graduate	Unstructured Data and Natural Language Processing (NLP)
Summer 2022	NUR0086 Nursing Informatics	25	Undergrad	Healthcare Information Systems and Workforce Development
Spring 2022	NUR3292 Responsibilities and Activities of Scientists	8	Graduate	Discussed career and research path as a junior tenure stream faculty member
Summer 2021	NUR2681 Advanced Topics in Human Genetics	6	Graduate	Facilitated case resolutions for hereditary cancers, cystic fibrosis, and mitochondrial disorders
Spring 2019	Columbia University School of Nursing K Award Workshop	5	Postdoctoral Research Fellows	Navigating the Transition from Postdoctoral Trainee to Associate Research Scientist
Annually 2017- Present	Columbia University School of Nursing N9550 Research Synthesis Through Visualization of Health Data	10	Graduate	Visualization in Genomic Analysis for Symptom Science
Fall 2016	Columbia University School of Nursing Doctoral Research Seminar Series	10	Graduate	Finding and Selecting Your 'Perfect' Postdoctoral Position
Annually 2016- 2019	NUR1680 Introduction to Genetics and Molecular Therapeutics	75	Undergrad	Cancer Genetics
Annually 2015- 2019	NUR2680 Introduction to Genetics and Molecular Therapeutics	50	Graduate	Cancer Genetics

PhD Dissertation Committees

<u>Student</u>: Tara Davis <u>Relationship</u>: Committee Member <u>Project Title</u>: The Multi-omics of Breast Cancer Related-Fatigue and its Mitigation by Exercise <u>Defense Date</u>: TBD

<u>Student</u>: Katelyn Leggio <u>Relationship</u>: Committee Member <u>Project Title</u>: Utilizing the All of Us Research Program: Exploring the Use if Wearable Activity Trackers in Adults with Heart Failure <u>Defense Date</u>: TBD

BSN Honors Committees

<u>Student</u>: Justine Wang <u>Relationship</u>: Committee Member <u>Project Title</u>: Examining the Effect of Tumor Features, BDNF, and 5-HTT Genotypes on Depressive Symptoms in Breast Cancer <u>Defense Date</u>: March 29, 2019

<u>Student</u>: Gabriela Dziewulski <u>Relationship</u>: Chair <u>Project Title</u>: Social Determinants of Health and Their Effect on Physical and Mental Health Among Adults with Limited English Proficiency <u>Defense Date</u>: TBD

Undergraduate Research Mentorship Program

<u>Mentee</u>: Gabriela Dziewulski <u>Relationship</u>: Undergraduate Research Mentorship Program (URMP) <u>Years</u>: 2020-Present <u>Activities</u>: Conducting a comprehensive literature review; Extraction and analysis of symptom data from electronic health records using natural language processing (NLP) and manual review; Data management; Assisting with statistical analysis and manuscript preparation; Responsible conduct of research

<u>Mentee</u>: LingXue Shen <u>Relationship</u>: Undergraduate Research Mentorship Program (URMP) <u>Years</u>: 2020-2022 <u>Activities</u>: Conducting a comprehensive literature review; Extraction and analysis of symptom data from electronic health records using natural language processing (NLP) and manual review; Data management; Assisting with statistical analysis and manuscript preparation; Responsible conduct of research

Mentee: Puja Ghotkar

<u>Relationship</u>: Undergraduate Research Mentorship Program (URMP) <u>Years</u>: 2014-2016 <u>Activities</u>: Performing PCR and TaqMan allelic discrimination in the University of Pittsburgh School of Nursing molecular genetics laboratory; Performing various data management activities, including entering data obtained from medical records into data management software and compiling genotype and neuropsychological test data from multiple sources; Assisting with genetic data analysis; Conducting a comprehensive literature review; Composing and presenting a research abstract

Other Mentoring Activities

<u>Mentee</u>: Susan Grayson <u>Relationship</u>: National Research Service Award (F31) Co-investigator <u>Application Title</u>: Psychoneurological Symptoms and Their Association with Markers of Genomic Instability from Circulating Tumor DNA in Metastatic Breast Cancer <u>Years</u>: 2021-Present <u>Activities</u>: Merging and analyzing complex symptom and omic datasets; Integrating social determinant of health information into analyses

Mentee: Morgan Henderson

<u>Relationship</u>: Research Assistant (Short-Term Casual Role – 15-20 hours/week) <u>Years</u>: 2019

<u>Activities</u>: Extraction and analysis of symptom data from electronic health records using natural language processing (NLP) and manual review; Data management; Assisting with statistical analysis and manuscript preparation; Responsible conduct of research

<u>Mentee</u>: Sofie Patzak <u>Relationship</u>: Research Assistant (Temporary staffing – 20 hours/week) <u>Years</u>: 2020-2021 <u>Activities</u>: Conducting a comprehensive literature review; Extraction and analysis of symptom data from electronic health records using natural language processing (NLP) and manual review; Data management; Assisting with statistical analysis and manuscript preparation; Responsible conduct of research