

## Curriculum Vitae

**Name:** JUDITH TABOLT MATTHEWS, PhD, MPH, RN

**Business Address:** University of Pittsburgh  
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## Education and Training

### **Undergraduate**

1970-1974	The Pennsylvania State University University Park, PA	Bachelor of Science Nursing
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### **Graduate**

1976-1977	Boston University Boston, MA	Master of Science Community Health Nursing
1990 - 1998	University of Pittsburgh Pittsburgh, PA	Doctor of Philosophy Nursing
1993 - 1999	University of Pittsburgh Pittsburgh, PA	Master of Public Health Epidemiology

## Appointments and Positions

### **Academic**

2013 – present	University of Pittsburgh School of Nursing Pittsburgh, PA	Research Associate Professor
2011 - present	University of Pittsburgh University Center for Social and Urban Research Pittsburgh, PA	Associate Director, Gerontology Program
2011 – 2013	University of Pittsburgh	Research Assistant Professor

	School of Nursing Pittsburgh, PA	
2008 – 2009	Duquesne University School of Nursing Pittsburgh, PA	Adjunct Clinical Faculty
2003 - present	University of Pittsburgh School of Nursing Pittsburgh, PA	Member, Graduate Faculty
1998 - 2011	University of Pittsburgh School of Nursing Pittsburgh, PA	Assistant Professor Health and Community Systems
1996 - 1998	University of Pittsburgh School of Nursing Pittsburgh, PA	Instructor Health and Community Systems Community Health Nursing
1994 - 1996	University of Pittsburgh School of Nursing Pittsburgh, PA	Graduate Student Researcher Center for Research in Chronic Disorders
1993 - 1994	University of Pittsburgh School of Nursing Pittsburgh, PA	Graduate Student Assistant Center for Nursing Research
1992 - 1993	University of Pittsburgh School of Nursing Pittsburgh, PA	Teaching Fellow Health and Community Systems Masters Research Methodology
1991 - 1992	University of Pittsburgh School of Nursing Pittsburgh, PA	Graduate Student Assistant
1989 - 1991	LaRoche College Division of Nursing Pittsburgh, PA	Assistant Professor Community Health Nursing, Research
1984 - 1989	LaRoche College Division of Nursing Pittsburgh, PA	Clinical Instructor Adjunct Faculty Community Health Nursing

**Non-Academic**

1977-1983	Visiting Nurse Association of Allegheny County Pittsburgh, PA	Gerontologic Nurse Clinician
1976 - 1977	New England Medical Center Hospital Boston, MA	Clinical Nursing Supervisor Medical - Surgical Units/ICUs
1974 - 1976	New England Medical Center Hospital Boston, MA	Staff Nurse Rehabilitation, Cardiology, and Coronary Care Units

### Licensure

1977 – present	RN-2236991-L	Pennsylvania
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### Membership in Professional and Scientific Societies

1974 – present	Sigma Theta Tau, International Honor Society for Nursing
1977 – 1983; 1999 – 2007, 2015 – present	American Nurses Association
1977 – 1983; 1999 – 2007	Pennsylvania Nurses Association
1993 – 1996; 1999 – 2007	American Public Health Association
1993 – 1995; 1999 – 2004	Society of Behavioral Medicine
1995 – 1996; 2006 – present	Eastern Nursing Research Society
2003 – present	Gerontological Society of America
2003 – 2009	American Medical Informatics Association
2014 – present	Council for the Advancement of Nursing Science

### Honors

1974	Sigma Theta Tau, International Honor Society for Nursing
2005	Sigma Theta Tau International, Eta Chapter, Leadership in Nursing Award for Research

### Publications

#### **Refereed Articles** (\* = Data-based)

1. \*Sevick, M. A., Sereika, S., **Matthews, J. T.**, Zucconi, S., Wielobob, C., Puczynski, S., Ahmad, S. M., & Barsh, L. F. (1994). Home-based ventilator-dependent patients: Measurement of the emotional aspects of home caregiving. *Heart & Lung, 23*(4), 269-278. PMID: 7960852
2. \*Sevick, M.A., Sereika, S., Hoffman, L. A., **Matthews, J. T.**, & Chen, G. J. (1997). A

- confirmatory factor analysis of the Caregiving Appraisal Scale for caregivers of home-based ventilator-assisted individuals. *Heart & Lung*, 26(6), 430-438. PMID: 9431489
3. Spier, B. E., **Matthews, J. T.**, Jack, L., Lever, J., McHaffie, E. J., & Tate, J. (2000). Impaired student performance in the clinical setting: A constructive approach. *Nurse Educator*, 25(1), 38-42. PMID: 11141899
  4. \***Matthews, J. T.**, Dunbar-Jacob, J., Sereika, S., Schulz, R., & McDowell, B. J. (2004). Preventive health practices: Comparison of family caregivers 50 and older. *Journal of Gerontological Nursing*. 30(2), 46-54. PMID: 15022826
  5. **Matthews, J. T.** Existing and emerging healthcare devices for elders to use at home. (2006). *Generations*, 30(2), 13-19.
  6. **Matthews, J. T.**, and Bernardo, L. M. (2008). Triaging the evidence. *Journal of Emergency Nursing*, 34(4), 361-362. PMID: 18640424
  7. \*Bernardo, L. M., **Matthews, J. T.**, Kaufmann, J., & Yang, K. (2008). Promoting critical appraisal of the research literature: A workshop for school nurses. *The Journal of Continuing Education in Nursing*, 39(10), 461-467. PMID: 18990892
  8. \*Henderson, W. A., Fall-Dickson, J. M., Schlenk, E. A., Kim, K. H., **Matthews, J. T.**, & Erlen, J. A. (2008). Effects of liver disease on the well-being of persons living with HIV. *Journal of the Association of Nurses in AIDS Care*, 19(5), 368-374. doi: 10.1016/j.jana.2008.05.004. PMID: 18762144; PMCID: PMC2577288
  9. \*Beach, S., Schulz, R., Downs, J., **Matthews, J.**, Barron, B., & Seelman, K. (2009). Disability, age, and informational privacy attitudes in quality of life technology applications: Results from a national web survey. *ACM Transactions on Accessible Computing*, 2(1), Article 5, available at <http://portal.acm.org>.
  10. \*Wang, J., & **Matthews, J. T.** (2010). Chronic disease self-management: Views among older adults of Chinese descent. *Geriatric Nursing*, 31(2), 86-94. PMID: 20381709
  11. \***Matthews, J. T.**, Beach, S. R., Downs, J., Bruine de Bruin, W., Mecca, L. P., & Schulz, R. (2010). Preferences and concerns for quality of life technology among older adults and persons with disabilities: National survey results. *Technology and Disability*, 22(1-2), 5-15.
  12. Garand, L., **Matthews, J. T.**, Courtney, K. L., Davies, M., Lingler, J. H., Schlenk, E. A., Yang, K., Bender, C. M., & Burke, L. (2010). Development and use of a tool to guide junior faculty in their progression toward promotion and tenure. *Journal of Professional Nursing*, 26(4), 207-213. doi: 10.1016/j.profnurs.2010.01.002. PMID: 20637442; PMCID: PMC3085879.
  13. Campbell, G. B., & **Matthews, J. T.** (2010). An integrative review of factors associated with falls during post-stroke rehabilitation. *Journal of Nursing Scholarship*, 42(4), 395-404. doi: 10.1111/j.1547-5069.2010.01369.x. PMID: 21091622; PMCID: PMC4465217.
  14. \*Karmarkar, A. M., DiCianno, B. E., Cooper, R., Collins, D. M., **Matthews, J. T.**, Koontz, A., Teodorski, E. E., & Cooper, R. A. (2011). Demographic profile of older adults using wheeled mobility devices. *Journal of Aging Research* 2011, Article 560358, 11 pages, doi:10.4061/2011/560358. doi: 10.4061/2011/560358. PMID: 21748007; PMCID: PMC3124894.
  15. \*Yang, K., Woome, G. R., & **Matthews, J. T.** (2012). Collaborative learning among

- undergraduate students in community health nursing. *Nursing Education in Practice*, 12(2), 72-76. PMID: 21820963
16. \*Wang, J., Zgibor, J., **Matthews, J.**, Charron-Prochownik, D., Sereika, S. M., & Siminerio, L. M. (2012). Self-monitoring of blood glucose is associated with problem-solving skills in hyperglycemia and hypoglycemia. *Diabetes Educator*, 38(2), 207-218. PMID: 22454405
  17. \*Wang, J., Sereika, S. M., Chasens, E. R., Ewing, L. E., **Matthews, J. T.**, & Burke, L. E. (2012). Effect of adherence to self-monitoring of diet and physical activity on weight loss in a technology-supported behavioral intervention. *Patient Preference and Adherence*, 6, 221-226. doi: 10.2147/PPA.S28889. PMID: 22536058; PMCID: PMC3333811.
  18. Schulz, R., Beach, S. R., **Matthews, J. T.**, Courtney, K. L., & Dabbs, A. J. D. (2012). Designing and evaluating quality of life technologies: An interdisciplinary approach. *Proceedings of the IEEE*, 100(8), 2397-2409.
  19. \*Wang, J., **Matthews, J.T.**, Sereika, S.M., Chasens, E. R., Ewing, L.E., & Burke, L. E. (2013). Psychometric evaluation of the Social Problem-Solving Inventory-Revised among overweight or obese adults. *Journal of Psychoeducational Assessment*, 31(6), 585-590. doi: 10.1177/0734282913480470; PMID: 25132720; PMCID: PMC4130479.
  20. \*Beach, S. R., Schulz, R., **Matthews, J. T.**, Courtney, K., & Dabbs, A. D. (2014). Preferences for technology versus human assistance and control over technology in the performance of kitchen and personal care tasks in baby boomers and older adults. *Disability and Rehabilitation: Assistive Technology*, 9(6), 474-486. doi: 10.3109/17483107.2013.832412; PMID: 23992428
  21. \*Schulz, R., Beach, S., **Matthews, J.**, Courtney, K., Dabbs, A. D., Mecca, L. P., & Sankey, S. (2014). Willingness to pay for quality of life technologies to enhance independent functioning among baby boomers and the elderly adults. *The Gerontologist*, 54(3), 363-374. doi:10.1093/geront/gnt016; PMID: 23528289; PMCID – In Process
  22. Schulz, R., Wahl, H-W., **Matthews, J. T.**, Dabbs, A. D., Beach, S. R., & Czaja, S. (2014, advance access). Advancing the aging and technology agenda in gerontology. *The Gerontologist*, 1-11. doi:10.1093/geront/gnu071; PMID: 25165042; PMCID: PMC4592332.
  23. \*Schulz, R., Beach, S.R., **Matthews, J.T.**, Courtney, K., De Vito Dabbs, A., & Person Mecca, L. (2015, advance access). Caregivers' willingness to pay for technologies to support caregiving. *The Gerontologist*, pii:gnv033. doi:10.1093/geront/gnv033; PMID: 26035899; PMCID – In Process.
  24. \***Matthews, J. T.**, Lingler, J. H., Campbell, G. B., Hunsaker, A. E., Hu, L., Pires, B. R., Hebert, M., & Schulz, R. (2015). Usability of a wearable camera system for dementia family caregivers. *Journal of Healthcare Engineering*, 6(2), 213-238. doi:10.1260/2040-2295.6.2.213; PMID: 26288888; PMCID: PMC4545579
  25. \***Matthews, J. T.**, Campbell, G. B., Hunsaker, A. E., Klinger, J., Mecca, L. P., Hu, L., Hostein, S., & Lingler, J. H. (2015, Advance access). Wearable technology to garner the perspective of dementia family caregivers. *Journal of Gerontological Nursing*, 42(4), 16-22. doi: 10.3928/00989134-20151008-65; PMID: 26468655; PMCID: PMC4814293

26. Campbell, G. B., Skidmore, E. R., Whyte, E. M., **Matthews, J. T.** (2015). Overcoming practical challenges to conducting clinical research in the inpatient stroke rehabilitation setting. *Topics in Stroke Rehabilitation*, 22(5):386-94. doi: 10.1179/1074935714Z.0000000045; PMID: 25775955; PMCID: PMC4573785.
27. Chyu, M-C., Austin, T., Calisir, F., Chanjaplammotil, S., Davis, M. J., Favela, J., Gan, H., Gefen, A., Haddas, R., Hahn-Goldberg, S., Hornero, R., Huang, Y-L., Jensen, O., Jiang, Z., Katsanis, J. S., Lee, J-A., Lewis, G., Lovell, N. H., Luebbbers, H-T., Morales, G. G., Matis, T., **Matthews, J. T.**, Mazur, L., Ng, E. Y. K., Oomen, K. J., Ormand, K., Rohde, T., Sánchez-Morillo, D., Sanz-Calcedo, J. G., Sawan, M., Shen, C-L., Shieh, J-S., Su, C-T., Sun, L., Sun, M., Tewolde, S. N., Williams, E. A., Yan, C., Zhang, J., & Zhang, Y-T. (2015). Healthcare engineering defined: A white paper. *Journal of Healthcare Engineering*, 6(41), 635-648.

#### Refereed, Published Abstracts (\* = Data-based)

1. \*Burke, L. E., Ewart, C. K., Thompson, P. D., Rohay, J. M., **Matthews, J.**, Sereika, S., & Dunbar-Jacob, J. (1995). Psychometric evaluation of the Cholesterol-Lowering Diet Self-Efficacy Scale. Supplement to *Circulation*.
2. \***Matthews, J. T.**, Dunbar-Jacob, J., Sereika, S., Schulz, R., & McDowell, B. J. (2000). Predictors of adherence to preventive health practices among family caregivers. *Annals of Behavioral Medicine*, 22 (Supplement), S043.
3. \***Matthews, J. T.**, Dunbar-Jacob, J., Sereika, S., Schulz, R., & McDowell, B. J. (2000). Responsiveness of caregiving women to persuasive strategies for improving mammography screening adherence. *Annals of Behavioral Medicine*, 22(Supplement), S210.
4. \*Lingler, J. H., Erlen, J. A., Schulz, R., Belle, S., **Matthews, J. T.**, & Engberg, S. (2004). Modeling vigilance among caregivers of persons with dementia. *The Gerontologist*, 44(1), 80-81.
5. \*Lingler, J. H., Erlen, J. A., Schulz, R., Belle, S., **Matthews, J. T.**, & Engberg, S. (2004). Does vigilance mediate the association between care recipient functional impairment and caregiver depression? *The Gerontologist*, 44(1), 598.
6. \***Matthews, J.T.**, Beach, S. R., Downs, J., Bruine de Bruin, W., Mecca, L. P., Argueta, J. R., & Schulz, R. (2008). Quality of life technology for older adults and persons with disabilities: Preferences and concerns for development from a national survey. *The Gerontologist*, 48(Special Issue III), 188.
7. \*Beach, S., Schulz, R., Bruine de Bruin, W., Downs, J., Musa, D., & Matthews, J. (2008). Privacy attitudes and quality of life technology in disabled and non-disabled baby boomers and older adults. *The Gerontologist*, 48(Special Issue III), 23.
8. \*Wang, J., & **Matthews, J. T.** (2008). Cultural beliefs and chronic disease self-management: Focus group findings from elderly Chinese immigrants. *The Gerontologist*, 48(Special Issue III), 326.
9. \***Matthews, J. T.**, Sereika, S., Engberg, S., Rogers, J. C., & Thrun, S. (2010). Responsiveness of older adults to navigational guidance from mobile robots in retirement communities. *Gerontechnology*, 9(2), 308.
10. \*Mahoney, D. F., Mahoney, E., Oseghale, J., **Matthews, J. T.**, Hu, J., et al. (2010). From

- nursing simulation to the engineering lab: Experiential training aiding robotic design. *Gerontechnology*, 9(2), 307.
11. \*Beach, S., Schulz, R., Downs, J., **Matthews, J.**, Seelman, K., Person Mecca, L., & Courtney, K. (2010). Monitoring and privacy issues in quality of life technology applications. *Gerontechnology*, 9(2), 78-79.
  12. \*Schulz, R., Beach, S., Downs, J., **Matthews, J.**, Seelman, K., Mecca, L. P., & Courtney, K. (2010). Design preferences for technologies that enhance functioning among older and disabled individuals. *Gerontechnology*, 9(2), 79-80.

### Refereed Books

1. National Research Council. (2010). *The role of human factors in home health care: Workshop summary*. Steve Olson, Rapporteur. **Committee on the Role of Human Factors in Home Health Care**, Committee on Human-Systems Integration. Division of Behavioral and Social Sciences and Education. Washington, DC: The National Academies Press.
2. National Research Council. (2011). *Health care comes home: The human factors*. **Committee on the Role of Human Factors in Home Health Care**, Board on Human-Systems Integration. Division of Behavioral and Social Sciences and Education. Washington, DC: The National Academies Press.

### Book Chapters (\* = refereed)

1. \*Dishman, E., **Matthews, J. T.**, & Dunbar-Jacob, J. (2004). Everyday health: Technology for adaptive aging. In R. Pew & S. Van Hemel (Eds.). *Technology for Adaptive Aging: Workshop Report and Papers (pp.179-208)*. Steering Committee for the Workshop on Adaptive Aging. Division of Behavioral and Social Sciences and Education. Washington, DC: The National Academies Press.
2. Schulz, R., Beach, S., Dabbs, A. D., **Matthews, J.** Courtney, K., Seelman, K., & Mecca, L. P. (2013). Introduction and overview: What do we mean by quality of life technologies? In R. Schulz (Ed.). *Quality of Life Technology*. Boca Raton, FL: CRC Taylor & Francis Group.
3. **Matthews, J.**, Courtney, K., & Dabbs, A. D. (2013). Design and development process. In R. Schulz (Ed.). *Quality of Life Technology*. Boca Raton, FL: CRC Taylor & Francis Group.
4. **Matthews, J.**, & Courtney, K. (2013). Fostering teamwork and community partnerships. In R. Schulz (Ed.). *Quality of Life Technology*. Boca Raton, FL: CRC Taylor & Francis Group.
5. Dabbs, A. D., Beach, S., Courtney, K., & **Matthews, J.** (2013). Evaluating quality of life technologies. In R. Schulz (Ed.). *Quality of Life Technology*. Boca Raton, FL: CRC Taylor & Francis Group.

### Refereed Conference Proceedings Papers (\* = Data-based)

1. **Matthews, J. T.**, Thrun, S., & Dunbar-Jacob, J. (2002). Robotic assistive technology for community-residing older adults and persons with disabilities: An inter-institutional initiative for students in the health and technology fields. *Proceedings of the International Conference on Engineering Education* (6 pages, available on CD-ROM).

2. Pollack, M. E., Brown, L., Colbry, D., Dunbar-Jacob, J., Engberg, S., **Matthews, J. T.**, McCarthy, C. E., Montemerlo, M., Orosz, C., Peintner, B., Pineau, J., Ramikrishnan, S., Roy, N., & Thrun, S. (2002). Pearl: A mobile robotic assistant for the elderly (6 pages). *AAAI (American Association of Artificial Intelligence) Technical Reports Series* (available at <http://www.aaai.org/Press/Reports/Workshops/ws-02-02.php>).
3. \*Morris, A., Donamukkala, R., Kapuria, A., Steinfeld, A., **Matthews, J. T.**, Dunbar-Jacob, J., & Thrun, S. (2003). A robotic walker that provides guidance. *Proceedings of the IEEE (Institute of Electrical and Electronics Engineers) International Conference on Robotics and Automation*, 25-30 (indexed in *IEEE-Xplore*, the electronic database for literature in electrical engineering, computer science, and electronics).
4. \*Glover, J., Thrun, S., & **Matthews, J. T.** (2004). Learning user models of mobility-related activities through instrumented walking aids. *Proceedings of the IEEE (Institute of Electrical and Electronics Engineers) International Conference on Robotics and Automation*, 3306-3312 (indexed in *IEEE-Xplore*, the electronic database for literature in electrical engineering, computer science, and electronics).
5. **Matthews, J. T.**, Engberg, S. J., Glover, J., Pollack, M., & Thrun, S. (2004). Robotic assistants for the elderly: Designing and conducting field studies. *Proceedings of the International Association of Science and Technology for Development (IASTED) International Conference on Robotics and Applications* (6 pages; available - ACTA Press: [http://www.actapress.com/Content\\_Of\\_Proceeding.aspx?ProceedingID=277](http://www.actapress.com/Content_Of_Proceeding.aspx?ProceedingID=277)).
6. \***Matthews, J. T.**, LoPresti, E. F., Simpson, R., Kulyukin, V. A., Wang, J., & Nalitz, N. R. (2007). Preferences for interface design for a navigation assistant on a wheeled walker. *Proceedings of the 2<sup>nd</sup> International Conference on Technology and Aging* (4 pages; available on CD-ROM).
7. \*Kulyukin, V. Kutiyawala, A., LoPresti, E., **Matthews, J.**, & Simpson, R. (2008). iWalker: Toward a rollator-mounted wayfinding system for the elderly. *Proceedings of the IEEE (Institute of Electrical and Electronics Engineers) International Conference on RFID*, 303-311 (indexed in *IEEE-Xplore*, the electronic database for literature in electrical engineering, computer science, and electronics).
8. \*Beach, S., Schulz, R., Downs, J., **Matthews, J.**, Seelman, K., Barron, B., & Person, M. (2009). End-user perspectives in privacy and other trade-offs in acceptance of quality of life technologies. *Proceedings of the 1<sup>st</sup> International Symposium on Quality of Life Technology*.
9. \***Matthews, J. T.**, Beach, S. R., Downs, J., Bruine de Bruin, W., Mecca, L. P., & Schulz, R. (2009). Quality of life technology for older adults and persons with disabilities: Preferences and concerns for development from a national survey. *Proceedings of the 1<sup>st</sup> International Symposium on Quality of Life Technology*.
10. \*Siewiorek, D. P., Smailagic, A., Courtney, K., **Matthews, J.**, Bennett, K., Cawley, R., Liao, X., Tambawala, H., Vartak, M., White, N., & Yates, J. (2010). Multi-user health kiosk. *Proceedings of the 3<sup>rd</sup> International Symposium on Quality of Life Technology*. Available at [http://www.shrs.pitt.edu/uploadedFiles/SHRS\\_Documents/RST\\_Docs](http://www.shrs.pitt.edu/uploadedFiles/SHRS_Documents/RST_Docs).



11. \***Matthews, J. T.**, Simmons, R., Almeida, G. J. M., da Silva, R. R., Taylor, P., & Schlenk, E. (2012). Usability of a virtual coach system for therapeutic exercise for osteoarthritis of the knee. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Workshop on Motivational Aspects of Robotics in Physical Therapy*. ISBN 978-972-8822-26-2.
12. McMillan, J. M., Courtney, K. L., **Matthews, J. T.**, Smailagic, A., & Siewiorek, D. (2013). Designing the community multi-user health kiosk. *Studies in Health Technology and Informatics, 183*, pp. 79-83. *IOS Press Ebooks*. DOI: 10.3233/978-1-61499-203-5-79. PMID: 23388259
13. \*Courtney, K. L., Jiang, Y., Beach, S. R., **Matthews, J. T.**, & Schulz, R. (2013). Clinician variations in data trust and use. *Studies in Health Technology and Informatics, 183*, pp. 189-194. *IOS Press Ebooks*. DOI: 10.3233/978-1-61499-203-5-189. PMID: 23388280
14. \*Courtney, K. L., **Matthews, J. T.**, McMillan, J. M., Person Mecca, L., Smailagic, A., & Siewiorek, D. (2015). Usability testing of a prototype multi-user telehealth kiosk. *Studies in Health Technology and Informatics, 208*, pp.109-113. *IOS Press Ebooks*. PubMed PMID: 25676957

#### Technical Paper

1. Glover, J., Holstius, D., Manojlovich, M., Montgomery, M., Powers, A., Wu, J., Kiesler, S., **Matthews, J.**, & Thrun, S. (2003). A robotically-augmented walker for older adults. (Tech. Rep. CMU-CS-03-170). Pittsburgh, Pennsylvania: Carnegie Mellon University, Computer Science Department, School of Computer Science.

#### Invited Article

1. **Matthews, J. T.** (2002). The Nursebot Project: Developing a personal robotic assistant for frail older adults in the community. *Home Health Care Practice & Management, 14*(5), 403-405.

#### Invited Book Chapter

1. Dunbar-Jacob, J., Schlenk, E. A., Burke, L. E., & **Matthews, J. T.** (1998). Predictors of patient adherence: Patient characteristics. In S. A. Shumaker, E. Schron, J. Ockene, & W. L. McBee (Eds.), *The handbook of health behavior change* (2nd ed., pp. 491-511). New York, NY: Springer Publishing Company.

#### Other Publications

1. **Matthews, J. T.** (1998). Adherence to preventive health practices among family caregivers of persons receiving home health services. *Dissertation Abstracts International*.
2. **Matthews, J.** (February 22, 2005). Assistive technology for the elderly. *Western Pennsylvania Hospital News*.

## **Funded Research**

### **Principal Investigator**

National Institute of Nursing Research (5 F31 NR06877-03)

*Breast Cancer Screening in Female Family Caregivers*

1992 – 1995

\$42,400 (100% Effort)

### **Principal Investigator**

American Nurses Foundation/Virginia Kelley, CRNA, Memorial Scholar Award

*Breast Cancer Screening in Female Family Caregivers*

1994 – 1996 (Contributed Effort)

\$2,700

### **Principal Investigator**

The Jewish Healthcare Foundation of Pittsburgh

*Breast Cancer Screening in Female Family Caregivers*

1994 – 1996 (Contributed Effort)

\$10,000

### **Principal Investigator**

University of Pittsburgh Central Research Development Fund

*Mastery and Adherence among Caregivers of Stroke Survivors*

1999 – 2001 (Contributed Effort)

\$16,000

### **Principal Investigator**

University of Pittsburgh Center for Research in Chronic Disorders

*Mastery and Adherence among Caregivers of Stroke Survivors*

1999 – 2001 (Contributed Effort)

\$1,784

### **Principal Investigator**

University of Pittsburgh School of Nursing Ruth Perkins Kuehn Nursing Research Award

*Developing a Multimedia Problem-Solving Tool for Family Caregivers of Stroke Survivors*

2000 – 2001 (Contributed Effort)

\$7,500

### **Principal Investigator, 2004-2005**

**Senior Personnel (Principal Investigator: Jacqueline Dunbar-Jacob): 2000-2004**

National Science Foundation (0085796)

*ITR: Personal Robotic Assistants for the Elderly*

2000 – 2005: 2000-2004 (5% Effort); 2004 -2005 (15% Effort)

\$1,434,692

**Principal Investigator**

National Institute of Nursing Research (K01 NR00167-01)

*Use of Technology with Caregivers of Stroke Survivors*

2001 – 2004 (75% Effort)

\$264,786

**Principal Investigator**

National Institute of Nursing Research (1 R03 NR008523)

*Robotic Assistance with Ambulation among Older Adults*

2004-2005 (15% Effort)

\$136,353

**Principal Investigator**

National Institute of Nursing Research (1R21NR013450-01)

*First Person Vision for Objective Evaluation of Caregiving Quality*

2012 – 2014 (25% Effort)

\$419,710

**Principal Investigator**

Agency for Healthcare Research and Quality (1R01HS022889-01A1)

*Self-management via Health Kiosk by Community-residing Older Adults*

2014 – 2019 (25% Effort)

\$2,428,641

**Co-Principal Investigator**

Co-Principal Investigator with Geoffrey Gordon, Carnegie Mellon University, and Siddhartha Srinivasan, Intel Research Pittsburgh

*SmartWalker Project funded through the Quality of Life Technology Center*

2006–2007 (8% Effort)

National Science Foundation (0540865; Principal Investigator: Takeo Kanade, Carnegie Mellon University)

\$100,000

**Co-Investigator**

Principal Investigator: Richard Schulz, University of Pittsburgh

National Institute of Nursing Research (R01 NR08272 01)

*Caregiver Intervention for Caregivers of SCI Patients*

2002 – 2007 (2002-2003: 5% Effort; 2006-2007 5% Effort)

\$1,681,177

**Co-Investigator**

Principal Investigator: Sara Czaja, University of Miami  
National Institute of Nursing Research (1R01NR014434-01)  
*A Tailored Technology Intervention for Diverse Family Caregivers of AD Patients*  
2013 – 2018 (5% Effort)  
\$2,413,333

**Senior Personnel**

Principal Investigator: Jessica Hodgins, Carnegie Mellon University  
National Science Foundation (0931595)  
*CPS: Medium: Monitoring Human Performance with Wearable Accelerometers*  
2009-2012  
\$1,206,078 (8.3% Effort)

**Consulting Investigator**

Principal Investigator: Edmund LoPresti, AT Sciences, LLC  
National Institute of Child Health and Human Development (1R43HD049161-01A1)  
*Navigation Assistant for a Wheeled Walker*  
2005 – 2006 (5% Effort)  
\$100,000

**Consultant**

Principal Investigator: John Hu, HStar Technologies, Inc.  
Department of Defense, Telemedicine and Advanced Technology Research Center (SBIR Phase I)  
*RoNA: Robotic Nurse Assistant*  
2007 - 2008  
\$100,000

**Consultant**

Principal Investigator: John Hu (HStar Technologies, Inc.)  
Army Telemedicine and Advanced Technology Research Center (SBIR Phase II Contract #  
W81XWH-08-C-0002)  
*An Advanced Medical Robotic System Augmenting Healthcare Capabilities*  
2008 – 2010  
\$750,000 (\$30,000 subcontract with the University of Pittsburgh)

**Consultant**

Principal Investigator: Tsuyoshi Moriyama (Tokyo Polytechnic University)  
Japan Society for the Promotion of Science (grant number not yet assigned)  
*Facial Expression Analysis Specialized to Faces Captured from Angled Views*  
2009-2010  
\$31,473 (contributed effort)

### **Research Faculty**

Principal Investigator: Rory Cooper (University of Pittsburgh subcontract with Carnegie Mellon University Principal Investigator Takeo Kanade)

National Science Foundation (0540865)

*Quality of Life Technology Engineering Research Center (Person and Society Thrust)*

2008 – 2010 (10% salary support)

2010 – 2011 (13.55% salary support)

2011 – 2012 (16% salary support)

2012 – 2014 (16% salary support)

2013 – 2014 (16% salary support)

\$25,000,000 (2006 – 2016)

### **Core Leader: Technology Infrastructure and Data Management Core**

Director: Lora E. Burke

University of Pittsburgh School of Nursing

*Hub for Excellence in eHealth Research*

2013-2015 (contributed effort)

\$40,000 (2013-2015)

### **Other Scholarly Activities**

#### **Educational or Training Grants**

**Co-Director** with Sebastian Thrun, Carnegie Mellon University

University of Pittsburgh Innovations in Education Award

*Sustaining Independence through Robotic Applications for Community-Residing Frail or Disabled Adults*

2001 – 2002

\$19,434 (plus \$12,528 in matching funds from Carnegie Mellon University Robot Learning Lab)

**Co-Director** with Lisa Bernardo, University of Pittsburgh

University of Pittsburgh School of Nursing Teaching Innovations Grant

*Enhancing School Nurses' Critical Appraisal Skills*

2005 – 2006

\$2,000

#### **Secondary Nursing Mentor**

Principal Investigator: Judith Erlen, University of Pittsburgh

National Institute of Nursing Research (T32 NR008857-05)

*Technology: Research in Chronic and Critical Illness*

2005 – 2010

\$1,279,400

### **Training Faculty**

Principal Investigator: Judith Erlen, University of Pittsburgh  
National Institute of Nursing Research (T32 NR008857-16)  
*Technology: Research in Chronic and Critical Illness*  
2012 – 2017  
\$1,021,041

### **Cross-Project Coordinator**

Director: Richard Schulz, University of Pittsburgh  
Health Resources and Services Administration  
The Mid-Atlantic Geriatric Workforce Development Center  
7/1/15 – 6/30/18 (20% effort)  
\$705,872 (Year 1)

### **Grant Reviewer**

1993, 2000, 2001	Sigma Theta Tau, Eta Chapter, Research Committee
2004, 2007, 2009, 2011, 2012, 2013, 2014	Alzheimer's Association, Everyday Technologies for Alzheimer's Care
2007	National Institutes of Health Ad Hoc Reviewer, Nursing Science: Adults and Only Adults (NSAA) Member Conflict Special Emphasis Panel (HOP X 03 M) June 26, 2007
2007, 2008, 2009	National Institutes of Health Ad Hoc Reviewer, Health of the Population Small Business Innovation Research Study Section (HOP E 10) June 28-29, 2007 October 25-26, 2007 February 21-22, 2008 June 26-27, 2008 February 19-20, 2009 June 10, 2009
2011	National Institutes of Health Ad Hoc Reviewer, Emerging Technologies and Training in Neurosciences Integrated Review Group [ETTN-B(50)] February 28, 2011, Stage 1 Reviewer
2015	National Institutes of Health Ad Hoc Reviewer, Nursing and Related Clinical Sciences (NRCS) Special Emphasis Panel October 8-9, 2015

- 2016 National Institutes of Health  
Ad Hoc Reviewer, Nursing and Related Clinical Sciences (NRCS) [ZRG1  
NRCS-V (08) F]  
February 11-12, 2016
- 2014 National Science Foundation  
Panel Reviewer  
Directorate for Computer & Information Science & Engineering  
Information and Intelligent Systems
- 2007 New Zealand Foundation for Research, Science, and Technology
- 2010 – 2015 University of Pittsburgh  
University Center for Social and Urban Research  
Steven D. Manners Faculty Development Award
- 2014 The Netherlands Organisation for Health Research and Development  
Memorabel Programme

**National Committee Member**

- 2009 – 2011 National Research Council  
Committee on the Role of Human Factors in Home Health Care

**Manuscript Reviewer**

- 2008, 2011 Journal of Professional Nursing
- 2009 Assistive Technology
- 2011 The International Journal for Computers and Their Applications
- 2011, 2012 Proceedings of the IEEE
- 2011 Gerontechnology
- 2012 Transactions on Accessible Computing
- 2012 Japan Journal of Nursing Science
- 2014 Interacting with Computers
- 2015 BMC Health Services Research
- 2015 International Journal of Geriatric Psychiatry
- 2016 IEEE Transactions on Human-Machine Systems

## Consultation

- 2005 Preparation of R21 grant application entitled *Online Support for Caregivers of Dementia Patients* (Karen M. Robinson, DNS, RN, CS, FAAN, University of Louisville)
- 2007 Paragon Development, Inc.  
Exploration of potential market for robotic technology for older adults

## Unpublished Presentations

### International (\* = Data-based)

1. \***Matthews, J. T.**, & Sevick, M. A. (1993, March). *Perceived health and health practices of caregivers of home-placed ventilator-dependent persons*. Poster presentation at the 4<sup>th</sup> International Conference on Home Mechanical Ventilation, Lyons, France.
2. \*Sevick, M. A., **Matthews, J. T.**, & Kamlet, M. S. (1993, March). *Measuring caregiver appraisal and economic impact of home placement of ventilator-dependent patients*. Poster presentation at the 4<sup>th</sup> International Conference on Home Mechanical Ventilation, Lyons, France.
3. \***Matthews, J. T.**, Dunbar-Jacob, J., & Rohay, J. (1993, September). *Informal caregivers of home health care recipients*. Podium presentation at the 1<sup>st</sup> International Conference on Community Health Nursing Research, Edmonton, Alberta, Canada.
4. **Matthews, J. T.** (2003, July). *The Nursebot Project: Assistive technology for older adults*. Invited podium presentation at the Nursing in a Technological World International Nursing Conference, Brisbane, Queensland, Australia.
5. **Matthews, J. T.** (2004, March). *Use of robotics in the healthcare delivery system and academic education*. Invited keynote podium presentation at the 22<sup>nd</sup> Annual International Nursing Computer and Technology Conference, Arlington, VA.
6. \*Beach, S., Schulz, R., Downs, J., **Matthews, J.**, Seelman, K., Barron, B., & Person, M. (2009, June). End-user perspectives in privacy and other trade-offs in acceptance of quality of life technologies. Podium presentation at the 1st International Symposium on Quality of Life Technology, Pittsburgh, PA.
7. \***Matthews, J. T.**, Beach, S. R., Downs, J., Bruine de Bruin, W., Mecca, L. P., & Schulz, R. (2009, June). *Quality of life technology for older adults and persons with disabilities: Preferences and concerns for development from a national survey*. Podium presentation at the 1st International Symposium on Quality of Life Technology, Pittsburgh, PA.
8. **Matthews, J. T.** (2009, October). *Quality of life technologies for older adults and persons with disabilities: Preferences and concerns*. Invited podium presentation to the University of Auckland Robotics Research Group, Auckland, New Zealand.
9. \*Wang, J., Oster, A.S., Lu, S.G., Knopf, A.L., & **Matthews, J.T.** (2010, August). *Development of health literacy screening tools for Chinese immigrants*. Poster presentation at the 11th International Congress of Behavioral Medicine, Washington, DC.
10. \*Wang, J., Ewing, L.E., Sereika, S.M., **Matthews, J.T.**, Chasens, E. R., & Burke, L. E. (2010, August). *Factors associated with social problem-solving in weight loss participants*. Poster presentation at the 11th International Congress of Behavioral Medicine, Washington, DC.



11. \*Wang, J., Sereika, S.M., Siminerio, L.M., Charron-Prochownik, D., Zgibor, J.C., Laporte, R. E., & **Matthews, J.T.** (2010, August). *Self-efficacy in diabetes self-management and self-efficacy in changing specific behaviors in relation to regimen adherence*. Podium presentation at the 11th International Congress of Behavioral Medicine, Washington, DC.
12. \***Matthews, J. T.** (2012, June). *Wizard of Oz approaches in developing virtual coach avatars*. Podium presentation for the symposium entitled *Developing patient-centric interventions for e-Health applications: Lessons learned* (Courtney, K. L., Alexander, G. L., Callan, J. A., & **Matthews, J. T.**) at the 11th International Congress on Nursing Informatics, Montreal, QC, Canada.
13. \*Hu, L., Lingler, J, Klingler, J., Mecca, L., Campbell, G., Hunsaker, A., Hostein, S., Pires, B., Hebert, M., **Matthews, J.** (2014, June). *Initial formative evaluation of a novel wearable camera system used at home by dementia family caregivers: A pilot study*. Poster presentation at the 12<sup>th</sup> International Congress on Nursing Informatics, Taipei, Taiwan. (Best Student Poster Award)

**National** (\* = Data-based)

1. **Matthews, J. T.** (2002, January). *Strategies to solve personnel shortages—Nursebot: The Nurse of 2005*. Invited podium presentation at the 31<sup>st</sup> Critical Care Congress of Society of Critical Care Medicine, San Diego, CA.
2. \***Matthews, J. T.**, Engberg, S., Montemerlo, M., Pineau, J., Roy, N., Rogers, J., & Thrun, S. (2002, November). *Robotic assistance during ambulation by older adults*. Poster presentation at the American Medical Informatics Association Annual Symposium, San Antonio, TX.
3. **Matthews, J. T.** (2003, April). *Nursebot: Developing personal robotic assistants for older adults*. Invited podium presentation at the American Association for Homes and Services for the Aging (AAHSA) Future of Aging Services Conference '03, Washington, DC.
4. **Matthews, J. T.** (2003, July). *Robotics and the promise of technological solutions for everyday health*. Invited Distinguished Lecturer presentation, 13<sup>th</sup> Annual Summer Institute in Nursing Informatics, University of Maryland Baltimore, Baltimore, MD.
5. **Matthews, J. T.** (2003, October). *Robotics: On the horizon for caregiving support to older adults*. Invited podium presentation at the Computer-based Technology and Caregiving for Older Adults Conference, SPRY Foundation; National Institutes of Health, Bethesda, MD.
6. **Matthews, J. T.** (2003, November). *The Nursebot Project: Robotic assistive technology for older adults*. Invited podium presentation at the Annual Symposium, American Medical Informatics Association, Washington, DC.
7. **Matthews, J. T.** (2004, January). *Nursebot Project: Innovative technology for older adults*. Poster presentation at the 4<sup>th</sup> Annual National Minority Health Leadership Summit, Pittsburgh, PA.
8. Pollack, M. E., **Matthews, J. T.**, Glover, J. M., Powers, A. J., Taylor, J., & Armstrong, G. D. (2004, March). *Initiative on intelligent assistive devices for the elderly*. Invited demonstration at the Technology Demo on Capitol Hill: Solutions to the Aging Services Crisis at the Dirksen Senate Office Building, sponsored by the Center for Aging Services Technologies, Washington, DC.

9. **Matthews, J. T.** (2004, October). *The Nursebot Project: Transdisciplinary collaboration in developing robotic assistive technology for older adults*. Podium presentation for the symposium entitled *Research issues in designing, delivering, and testing technology-based interventions* at the Congress for the Advancement of Nursing Science National Congress for the State of the Science in Nursing Research, Washington, DC.
10. **Matthews, J. T.** (2005, October). *Robots and other intelligent technology for older adults*. Invited podium presentation, National Institute of Nursing Research 20<sup>th</sup> Anniversary, National Institutes of Health, Bethesda, MD.
11. **Matthews, J. T.,** & Armstrong, G. (2005, December). *University of Pittsburgh/Carnegie Mellon University Quality of Life Technologies*. Invited exhibitor at the Center for Aging Services Technologies (CAST) Imagine Pavilion Exhibition, White House Conference on Aging, Washington, DC.
12. **Matthews, J. T.** (2006, August). *Pearl: Mobile robotic assistant for the elderly*. Invited podium presentation, NIH Roadmap Interdisciplinary Methodology & Technology Summit, North Bethesda, MD.
13. \*Kutiyawala, A., Kulyukin, V., LoPresti, E., **Matthews, J. T.,** & Simpson, R. (2006, October). *A rollator-mounted wayfinding system for the elderly: A smart world perspective*. Podium presentation at the 8<sup>th</sup> International Association for Computing Machinery (ACM) Special Interest Group on Accessible Computing (SIGACCESS) Conference on Computers and Accessibility, Portland, OR.
14. \*Kulyukin, V. A., LoPresti, E., Kutiyawala, A., Simpson, R., & **Matthews, J. T.** (2007, June). *A rollator-mounted wayfinding system for the elderly: Proof-of-concept design and preliminary technical evaluation*. Podium presentation at the 29<sup>th</sup> Annual Rehabilitation Engineering & Assistive Technology Society of North America (RESNA), Phoenix, AZ.
15. \*Wang, J., & **Matthews, J.T.** (2008, May). *Chronic disease self-management: Views among older adults of Chinese descent living in the United States*. Podium presentation at the 5<sup>th</sup> Annual Asian American/Pacific Islander Nurses Association Conference, Las Vegas, NV.
16. Wang, J., & **Matthews, J. T.** (2009, March). *Acculturation in Asian immigrants: A concept analysis*. Poster presentation at the 6<sup>th</sup> Annual Asian American/Pacific Islander Nurses Association Conference, Honolulu, HI.
17. \*Woomer, G. R., Yang, K., & **Matthews, J. T.** (2009, November). *Collaborative learning among undergraduate students in community health nursing*. Poster presentation at the 2009 AACN Baccalaureate Education Conference, Chicago, IL.
18. \*Wang, J., Zgibor, J.C., **Matthews, J. T.,** Charron-Prochownik, D., Laporte, R. E., Sereika, S.M., & Siminerio, L.M. (2010, June). *Self-monitoring of blood glucose is associated with problem-solving skills in hyperglycemia and hypoglycemia*. Paper presentation at the American Diabetes Association 70<sup>th</sup> Scientific Sessions, Orlando, FL.
19. Woomer, G. R., Yang, K., & **Matthews, J. T.** (2010, November). *Understanding poverty for culturally competent care in community health nursing education*. Podium presentation at the 2010 AACN Baccalaureate Education Conference, Orlando, FL.
20. \***Matthews, J. T.,** Hebert, M., Devyver, M., Dodds, A., Mecca, L. P., Beach, S. R., & Schulz, R. (2011, November). *Usability of first-person vision among older adults and their spouses*. Poster presentation at the 64<sup>th</sup> Annual Scientific Meeting of the Gerontological Society of America, Boston, MA.

21. Schulz, R., Beach, S., & **Matthews, J.** (2013, July). *Quality of life technologies for older adults and persons with disability*. Podium presentation for a symposium entitled *Aging in Place With Technology---Creative Approaches* at the American Psychological Association Annual Convention, Honolulu, HI.
22. \*Hu, L., Lingler, J., Klinger, J., Mecca, L., Campbell, G., Hunsaker, A., Hostein, S., Pires, B., Hebert, M., **Matthews, J.** (2014, September). *Usability of a novel wearable camera system by dementia family caregivers: A pilot study*. Podium presentation at the 2014 State of the Science Congress on Nursing Research, Washington, DC.
23. \*Nilsen, M., Jiang, Y., Dabbs, A. D., **Matthews, J.**, Courtney, K. L., Beach, S., & Schulz, R. (2014, November). *Technology to support family caregiving: Acceptance and willingness to pay*. Poster presentation at the 67th Annual Scientific Meeting of the Gerontological Society of America, Washington, DC.
24. \*Hu, L., Lingler, J., Klinger, J., Mecca, L., Campbell, G., Hunsaker, A., Hostein, S., **Matthews, J.** (2014, November). *Use of a novel wearable camera system to inform tailored intervention with dementia caregivers: A feasibility study*. Poster presentation at the 67th Annual Scientific Meeting of the Gerontological Society of America, Washington, DC.
25. \*Hu, L., Lingler, J., Klinger, J., Mecca, L. P., Campbell, G., Hunsaker, A., Hostein, S., Pires, B., Hebert, M., Schulz, R., **Matthews, J.** (2014, November). *Usability of a novel wearable camera system to inform tailored intervention with dementia family caregivers*. Poster presentation at the American Medical Informatics Association 2014 Annual Symposium, Washington, DC.
26. \*Beach, S., Schulz, R., **Matthews, J.**, Courtney, K., & Dabbs, A. D. (2014, November). *Informal caregivers' attitudes towards new kitchen and personal care technology to support caregiving*. Podium presentation at the 67th Annual Scientific Meeting of the Gerontological Society of America, Washington, DC.
27. \*Jiang, Y., Nilsen, M., Dabbs, A. D., **Matthews, J.**, Courtney, K., Mecca, L. P., Beach, S., & Schulz, R. (2015, April). *Family caregivers' likelihood of use and willingness to pay for mobile technologies to manage their own health*. Poster presentation at the 36th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, San Antonio, TX.

#### **Regional Presentations** (\* = Data-based)

1. \***Matthews, J. T.**, & Dunbar-Jacob, J. (1996, April). *Adherence to preventive health practices among female family caregivers of stroke survivors*. Podium presentation at the 8<sup>th</sup> Annual Eastern Nursing Research Society Conference, Pittsburgh, PA.
2. **Matthews, J. T.**, Thrun, S., & Armstrong, G. (2002, June). *Nursebot: Developing a personal robotic assistant for older adults*. Invited podium presentation at the Donald A. Lindberg Lecture and Symposium, University of Pittsburgh, Pittsburgh, PA.
3. **Matthews, J. T.**, Glover, J. M., & Armstrong, G. D. (2004, January). *The Nursebot Project: Developing robotic assistive technology for older adults*. Invited exhibitor: MERITS (Medical Robotics and Information Technology for Medicine and Surgery) of Pittsburgh Exposition, Carnegie Mellon University, Pittsburgh, PA.
4. **Matthews, J. T.** (2004, May). *The Nursebot Project: A glimpse into the future of research, education, and practice*. Invited podium presentation at the 10<sup>th</sup> Annual Nursing Research Day, Robinson Memorial Hospital, Ravenna, OH.

5. **Matthews, J. T.** (2004, September). *Intelligent assistive technology for older adults: Initial field studies*. Invited podium presentation at the Artificial Intelligence Lab of the University of Michigan School of Engineering, Department of Electrical Engineering and Computer Science, Ann Arbor, MI.
6. **Matthews, J. T.** (2004, November). *Intelligent assistive technology: Robotic devices for use by older persons*. Invited podium presentation at the Care Providers of Minnesota Annual Meeting, Minneapolis, MN.
7. **Matthews, J. T.** (2004, November). *Intelligent assistive technology: Robotic devices for use by older persons*. Invited podium presentation for the Gerontology Program at the University of Minnesota, Minneapolis, MN.
8. **Matthews, J. T.** (2004, November). *Intelligent assistive technology: Robotic devices for use by older adults*. Invited podium presentation, University of Minnesota Center on Aging and Center for Gerontological Nursing, Minneapolis, MN.
9. **Matthews, J. T.** (2005, February). *Intelligent assistive technology: Robotic devices for use by older persons*. Invited podium presentation at the Minnesota Health & Housing Alliance Institute & Exhibition, Minneapolis, MN.
10. **Matthews, J. T.** (2005, April). *Expanding our horizons: Nursing in an age of intelligent assistive technology*. Invited podium presentation at the Nursing Research Symposium: Research Explosion at Youngstown State University, Youngstown, OH.
11. **Matthews, J. T.** (2005, September). *Robots and other intelligent technology for older adults*. Invited podium presentation, Computer Science Artificial Intelligence Lab (CSAIL), Massachusetts Institute of Technology, Cambridge, MA.
12. **Matthews, J. T.** (2006, April). *NINR Mentoring Panel: Tales from successful research mentoring relationships*. Invited podium presentation at the Eastern Nursing Research Society, 18<sup>th</sup> Annual Scientific Sessions, Cherry Hill, NJ.
13. **Matthews, J. T.** (2006, April). Transdisciplinary collaboration in developing robotic assistive technology for older adults. Podium presentation for a symposium entitled *Forging multidisciplinary partnerships to develop cutting-edge technologies for consumer-centric health care* at the Eastern Nursing Research Society, 18<sup>th</sup> Annual Scientific Sessions, Cherry Hill, NJ.
14. **Matthews, J. T.** (2006, August). *The Nursebot Project: Intelligent assistive technology for older adults*. Invited podium presentation at the James A. Haley Veterans Hospital Patient Safety Research Center, Tampa, FL.
15. **Matthews, J. T.** (2007, July). *Emerging technologies: Intelligent systems to enable aging in place*. Invited podium presentation at the Maryland Health and Aging Summit, Columbia, MD.
16. **Matthews, J. T.** (2009, May). *Quality of life technologies for older adults and persons with disabilities: Tradeoffs between independence and privacy*. Invited podium presentation at the Pennsylvania State Nurses Association (PSNA) District 6 Annual Continuing Education Program, Pittsburgh, PA.
17. **Matthews, J. T.** (2015, November). *Advances in technology for (care of) persons with chronic disorders*. Keynote address at the Strategies: Educational Excellence for Health Care Providers and Educators 25<sup>th</sup> Annual Conference at the Pennsylvania State University, University Park, PA.

**Local Presentations** (\* = Data-based)

1. **Matthews, J. T.** (1997, March). *Breast and cervical cancer screening through the Healthy Woman 50+ Program*. Invited podium presentation to the Seniors Group, Matilda Theiss Health Center, Pittsburgh, PA.
2. Levine, R. M., Anderson, L. K., Kreps, L., & **Matthews, J. T.** (1997, March). *Community partnerships for health promotion*. Podium presentation at the Teaching Excellence Conference, University of Pittsburgh Center for Instructional Development & Distance Education, Pittsburgh, PA.
3. \***Matthews, J. T.** (1997, April). *Preventive health practices of family caregivers*. Invited podium presentation at Carlow College School of Nursing, Pittsburgh, PA.
4. **Matthews, J. T.** (1997, April). *Breast health and mammography*. Invited podium presentation for the Parents Group of the Family Resource Center at the Connelly Technical Institute and Adult Education Center, Pittsburgh Public Schools, Pittsburgh, PA.
5. **Matthews, J. T.** (1998, April). *Preventive health practices recommended for adults age 50 and older*. Invited podium presentation to the Seniors Group, Matilda Theiss Health Center, Pittsburgh, PA.
6. **Matthews, J. T.** (1998, May). *Health-promoting behaviors in young women*. Invited podium presentation to the Partners in Pregnancy Program, Matilda Theiss Health Center, Pittsburgh, PA.
7. \***Matthews, J. T.** (2000, March). *Adherence to preventive health practices among family caregivers of persons receiving home health services*. Invited podium presentation at the Geriatric Research, Education, and Clinical Center, VA Pittsburgh Health System, Pittsburgh, PA.
8. **Matthews, J. T.** (2000, November). *Strategies for partnering with communities*. Invited podium presentation, Pittsburgh Schweitzer Fellows Program, Pittsburgh, PA.
9. **Matthews, J. T.** (2001, December). *Web-based intervention research with family caregivers of stroke survivors*. Invited podium presentation to the Clinical Investigator Group, UPMC Stroke Institute, Pittsburgh, PA.
10. **Matthews, J. T.** (2002, April). *Consumer and community health informatics: Web support for family caregivers*. Invited podium presentation at the Center for Biomedical Informatics of the University of Pittsburgh, Pittsburgh, PA.
11. \***Matthews, J. T.**, Engberg, S., Montemerlo, M., Pineau, J., Roy, N., Rogers, J., Thrun, S., Handler, S., Starrett, T., Ting, D., & Travis, R. (2002, November). *The Nursebot Project: Results of preliminary field studies during development of a personal robotic assistant for older adults*. Podium presentation at the Greater Pittsburgh 14<sup>th</sup> Annual Nursing Research Conference, Pittsburgh, PA.
12. \***Matthews, J. T.**, Schulz, R., Draus, P., & Gray, D. (2002, November). *Usability testing of a telecommunications-based intervention for family caregivers of stroke survivors*. Poster presentation at the Greater Pittsburgh 14<sup>th</sup> Annual Nursing Research Conference, Pittsburgh, PA.
13. **Matthews, J. T.**, & Thrun, S. (2002, November). *Creating a bridge across disciplines and communities*. Podium presentation at the Teaching Excellence Fair, University of Pittsburgh, Pittsburgh, PA.
14. **Matthews, J. T.** (2003, May). *The Nursebot Project*. Invited podium presentation at Alumni Day, University of Pittsburgh School of Nursing, Pittsburgh, PA.

15. **Matthews, J. T.** (2003, June). *Technology for family caregivers of stroke survivors*. Invited podium presentation to the Stroke Support Group, HealthSouth Harmarville Rehabilitation Center, Harmarville, PA.
16. **Matthews, J. T.** (2003, September). *Technology for the everyday health of older adults*. Invited podium presentation at the Geriatric Research, Education, and Clinical Center of the VA Pittsburgh Healthcare System, Pittsburgh, PA.
17. **Matthews, J. T.** (2004, April). *Initiative on intelligent assistive technology for older adults*. Invited podium presentation at the UPMC Living at Home Program, Pittsburgh, PA.
18. **Matthews, J. T.** (2004, April). *Developing consumer-centric technological solutions to promote health and prevent disease among community-residing adults*. Invited podium presentation at the H. John Heinz III School of Public Policy and Management, Carnegie Mellon University, Pittsburgh, PA.
19. **Matthews, J. T.** (2004, May). *Robotic assistive technology: Update on the Nursebot Project*. Invited podium presentation at the UPMC Alzheimer's Disease Research Center, Pittsburgh, PA.
20. **Matthews, J. T.** (2004, July). *The Nursebot Project: A glimpse into the future of research, education, and practice*. Invited podium presentation for the Pennsylvania Governor's School for Health Care at the University of Pittsburgh, Pittsburgh, PA.
21. **Matthews, J. T.** (2004, December). *The Nursebot Project: Transdisciplinary collaboration in developing robotic assistive technology for older adults*. Invited podium presentation for the symposium entitled *Research issues in designing, delivering, and testing technology-based interventions* (Burke, L., Dabbs, A., Donovan, H., **Matthews, J.**, & Tate, J.) for the Translation and Practice Series, University of Pittsburgh Center for Research in Chronic Disorders, Pittsburgh, PA.
22. **Matthews, J. T.** (2005, September). *Aging-in-place technologies: The Nursebot Project and other work in progress*. Invited podium presentation at Lutheran Affiliated Services, Mars, PA.
23. **Matthews, J. T.** (2005, October). *Technology-based research at the University of Pittsburgh School of Nursing*. Invited podium presentation at the Oncology Nursing Society, Pittsburgh, PA.
24. **Matthews, J. T., & Gordon, G. J.** (2005, October). *Intelligent assistive technology: The Nursebot Project*. Podium presentation at the Technology for Life and Living: Aging and Technology at the Cutting Edge Conference, Pittsburgh, PA.
25. \***Matthews, J. T.** (2006, May). *Can robotic assistive technology improve home care of the elderly?* Invited podium presentation at the 13<sup>th</sup> Annual Nursing Horizons Conference: Moving to Evidence-based Practice, University of Pittsburgh School of Nursing, Pittsburgh, PA.
26. **Matthews, J. T.** (2006, July). *Application of information technology for improving quality of life*. Invited podium presentation for the Pennsylvania Governor's School for Health Care at the University of Pittsburgh, Pittsburgh, PA.
27. **Matthews, J. T.** (2006, September). *New technology for older adults*. Invited podium presentation at A Day to C.A.R.E. (Change, Appreciate, Renew, Enrich), Allegheny County Department of Human Services Area Agency on Aging, Pittsburgh, PA.

28. Schulz, R., & **Matthews, J. T.** (2006, October). *Quality of Life Technology Engineering Research Center*. Invited podium presentation for the Claude D. Pepper Center Research Series, University of Pittsburgh, Pittsburgh, PA.
29. \***Matthews, J. T.**, Chiarulli, D. M., Gordon, G. J., Pollack, M. E., & Kiesler, S. (2006, October). *The Nursebot Project: Robotic assistants for the elderly*. Poster presentation for the University of Pittsburgh Institute on Aging Fall Poster Session, Pittsburgh, PA.
30. **Matthews, J. T.** (2007, May). *Determining the hierarchy of evidence: Appraising the literature*. Podium presentation for workshop entitled *Evidence-based Practice: Applications for Nursing Faculty*, Westmoreland County Community College, Youngwood, PA.
31. **Matthews, J. T.** (2007, September). *Intelligent systems to enable aging in place*. Invited podium presentation at the Professional Advisors Event of the Medical and Health Sciences Foundation, University of Pittsburgh, Pittsburgh, PA.
32. **Matthews, J. T.** (2008, June). *Humanoids, intelligent walkers, & virtual coaches*. Invited podium presentation for Westinghouse SURE (Service Uniting Retired Employees) Annual Meeting, Pittsburgh, PA.
33. \*Wang, J., & **Matthews, J. T.** (2008, December). *Cultural beliefs and chronic disease self-management among elderly Chinese immigrants*. Poster presentation for the University of Pittsburgh Institute on Aging Third Annual Research Day, Pittsburgh, PA.
34. \***Matthews, J. T.**, Beach, S. R., Downs, J., Bruine de Bruin, W., Mecca, L. P., Argueta, J. R., & Schulz, R. (2008, December). *Quality of life technology for older adults and persons with disabilities: Preferences and concerns for development from a national survey*. Poster presentation for the University of Pittsburgh Institute on Aging Third Annual Research Day, Pittsburgh, PA.
35. **Matthews, J. T.** (2009, May). *Virtual Coach Project: Physical therapy*. Invited podium presentation for the University of Pittsburgh Emerging Learning & Integrated Technologies Education (ELITE) Faculty Development Program, Pittsburgh, PA.
36. \*Wang, J., & **Matthews, J. T.** (2009, February). *Cultural beliefs and chronic disease self-management among elderly Chinese immigrants*. Poster presentation at the 10<sup>th</sup> Annual Research and Clinical Poster Session, University of Pittsburgh, Pittsburgh, PA.
37. \*Campbell, G. B., & **Matthews, J. T.** (2009, February). *Executive dysfunction as a fall risk predictor in stroke rehabilitation*. Poster presentation at the 10<sup>th</sup> Annual Research and Clinical Poster Session, University of Pittsburgh, Pittsburgh, PA.
38. **Matthews, J. T.** (2009, August). *Intelligent systems for enhancing quality of life among older adults and persons with disabilities*. Invited podium presentation to the Division of Geriatric Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA.
39. \*Mahoney, D. F., Mahoney, E., Oseghale, J., **Matthews, J. T.**, Hu, J., et al. (2010, May). *From nursing simulation to the engineering lab: Experiential training aiding robotic design*. Poster presentation for Massachusetts General Hospital Nursing Research Week, Boston, MA.
40. Blazina, C., Cassidy, B. L., Erlen, J., & **Matthews, J. T.** (2011, April). *Health care reform: Policy, ethics, and primary care nursing*. Panel discussion at the 20<sup>th</sup> Annual Medical Ethics Update 2011, University of Pittsburgh, Center for Bioethics and Health Law, Pittsburgh, PA.

41. \***Matthews, J. T.**, Hebert, M., Devyver, M., Dodds, A., Mecca, L. P., Beach, S., & Schulz, R. (2011, April). *Usability of first-person vision among older adults and their spouses*. Poster presentation for the Aging Institute of UPMC Senior Services and the University of Pittsburgh 5<sup>th</sup> Annual Research Poster Day, Pittsburgh, PA.
42. Campbell, G. B., & **Matthews, J. T.** (2011, June). *Challenges in conducting research in the inpatient stroke rehabilitation setting*. Poster presentation at the 3<sup>rd</sup> Annual PhD Research Day, University of Pittsburgh, School of Nursing, Pittsburgh, PA.
43. Campbell, G. B., & **Matthews, J. T.** (2011, June). *Methodological, clinical, and practical challenges of conducting research in the inpatient stroke rehabilitation setting*. Poster presentation at the 7<sup>th</sup> Annual Rehabilitation Institute Research Day 2011, University of Pittsburgh, School of Medicine, Pittsburgh, PA.
44. **Matthews, J. T.** (2011, November). *Technology in support of family caregiving*. Podium presentation at the 3rd Annual Family Caregiver Conference "Caring Across Generations", VA Pittsburgh Health System, Pittsburgh, PA.
45. **Matthews, J. T.** (2012, February). *Technology in support of family caregiving*. Podium presentation at the Gaps Workshop for the Quality of Life Technology Center, Carnegie Mellon University, Pittsburgh, PA.
46. **Matthews, J. T.** (2012, May). *A Look into the Future of Dealing with Dementia: The Role of Technology*. Podium presentation at the Walter Allen Memorial Seminar Series of the University of Pittsburgh Alzheimer Disease Research Center, Hill House, Pittsburgh, PA.
47. \***Matthews, J. T.**, Courtney, K. L., McMillan, J., Mecca, L. P., Barton, A., Siewiorek, D. P., Smailagic, A., & Schulz, R. (2012, April). *Usability of a prototype multi-user health kiosk in the community*. Poster presentation at the 6th Annual Research Day hosted by the Aging Institute of UPMC Senior Services and the University of Pittsburgh, Pittsburgh, PA.
48. \***Matthews, J. T.**, Simmons, R., Almeida, G., DaSilva, R., Taylor, P., & Schlenk, E. (2012, April). *Using a virtual coach for therapeutic exercise for knee osteoarthritis*. Poster presentation at the 6th Annual Research Day hosted by the Aging Institute of UPMC Senior Services and the University of Pittsburgh, Pittsburgh, PA.
49. **Matthews, J. T.** (2012, June). *Technology and aging*. Invited podium presentation for the Health Career Scholars Academy at the University of Pittsburgh, Pittsburgh, PA.
50. **Matthews, J. T.** (2013, February). *Development of a multi-user health kiosk for community-residing older adults*. Invited podium presentation for the Claude D. Pepper Center Research Series at the University of Pittsburgh, Pittsburgh, PA.
51. **Matthews, J. T.** (2013, February). *Technology development: The example of First Person Vision*. Invited podium presentation for the Technology T32 Seminar Series at the University of Pittsburgh School of Nursing, Pittsburgh, PA.
52. **Matthews, J. T.** (2013, December). *Evolution of a multi-user health kiosk for community-residing older adults*. Podium presentation for the eHealth Hub Inaugural Seminar Series at the University of Pittsburgh School of Nursing, Pittsburgh, PA.
53. **Matthews, J. T.** (2014, April). *Development and deployment of multi-user health kiosks for community-residing older adults*. Invited podium presentation for Geriatric Division Grand Rounds at the University of Pittsburgh School of Medicine, Pittsburgh, PA.
54. **Matthews, J. T.** (2015, May). *Existing and emerging technologies in support of family caregiving*. Invited podium presentation at Stocking the Caregiver's Toolbox: Techniques & Tips for Families and Professionals sponsored by Ursuline Support Services,



Pittsburgh, PA.

**Teaching****Teaching Responsibilities: 2003-2011**

<b>Term &amp; Year</b>	<b>Course Number and Title</b>	<b>#</b>	<b>Level</b>	<b>Focus</b>
<b>GRADUATE</b>				
Spring 2003	<b>NUR 2840</b> Robotic Applications in Clinical Practice (cross-listed with 16-8999D Robotic Assistive Technology in Health Care at Carnegie Mellon University)	7	Baccalaureate through post-doctoral (Pitt & CMU): Nursing, information science, computer science, human-computer interaction, computer and electrical engineering	Didactic
Fall 2003	<b>NUR 2361</b> Independent Study	1	Masters: Family Nurse Practitioner Program	<i>Tutorial</i>
Spring 2004	<b>NUR 2840</b> Robotic Applications in Clinical Practice (cross-listed with 16-8999D at CMU)	3	Masters (Pitt & CMU): Human-computer interaction, rehabilitation science/technology	Didactic
Spring 2004	<b>NUR 2002</b> Research Practicum	1	Masters: Family Nurse Practitioner Program	<i>Preceptor</i>
Summer 2004	<b>NUR 2002</b> Research Practicum	43	Masters: Nursing: all programs	Didactic
Spring 2005	<b>NUR 2840</b> Robotic Applications in Clinical Practice (Pitt only; co-taught with CMU faculty)	5	Baccalaureate: Bioengineering; Masters: Nursing informatics and rehabilitation science/technology	Didactic
Spring 2005	<b>NUR 2002</b> Research Practicum	1	Masters: Family Nurse Practitioner Program	<i>Preceptor</i>
Spring 2006	<b>NUR 3054</b> Doctoral Teaching Seminar in Higher Education	1	Doctoral: PhD Program	<i>Preceptor</i>
Summer 2008	<b>NUR 3042</b> Research Emphasis Seminar: Chronic Disorders	6	Doctoral: PhD Program	Didactic
Spring 2009	<b>NUR 3045</b> Research Practicum	1	Doctoral: PhD Program	<i>Preceptor</i>
<b>UNDERGRADUATE</b>				
Fall 2004	<b>NUR 1127</b> Community Health Nursing Theory	19	Baccalaureate: Senior (Prelicensure) and RN Options	Didactic
Fall 2004	<b>NUR 1128</b> Community Health Nursing Theory and Practicum	66	Baccalaureate: Senior (Prelicensure) and RN Options	Didactic
Spring 2005	<b>NUR 1127</b> Community Health Nursing Theory	19	Baccalaureate: RN Options	Didactic
Spring 2005	<b>NUR 1128</b> Community Health Nursing Theory and Practicum	67	Baccalaureate: Senior (Prelicensure)	Didactic
Fall 2005	<b>NUR 1127</b> Community Health Nursing Theory	11	Baccalaureate: RN Options	Didactic
Fall 2005	<b>NUR 1128</b> Community Health Nursing Theory and Practicum	47	Baccalaureate: Senior (Prelicensure)	Didactic
Spring 2006	<b>NUR 1127</b> Community Health Nursing Theory	9	Baccalaureate: RN Options	Didactic

Spring 2006	<b>NUR 1128</b> Community Health Nursing Theory and Practicum	48	Baccalaureate: Senior (Prelicensure)	Didactic
Spring 2006	<b>NUR 1061</b> Independent Study	1	Baccalaureate: Senior (Prelicensure)	<i>Tutorial</i>
Summer 2006	<b>NUR 2050</b> Research Practicum: Grantwriting	1	Masters: Research Advanced Specialty Role	<i>Tutorial</i>
Fall 2006	<b>NUR 1127</b> Community Health Nursing Theory	4	Baccalaureate: RN Options	Didactic
Fall 2006	<b>NUR 1128</b> Community Health Nursing Theory and Practicum	53	Baccalaureate: Senior (Prelicensure)	Didactic
Fall 2006	<b>NUR 3053</b> General Practicum	1	Doctoral: PhD Program	<i>Tutorial</i>
Spring 2007	<b>NUR 1127</b> Community Health Nursing Theory	2	Baccalaureate: RN Options	Didactic
Spring 2007	<b>NUR 1128</b> Community Health Nursing Theory and Practicum	62	Baccalaureate: Senior (Prelicensure)	Didactic
Spring 2007	<b>NUR 1061</b> Independent Study	1	Baccalaureate: Senior (Prelicensure)	<i>Tutorial</i>
Spring 2007	<b>NUR 2801</b> Clinical Trials Practicum	1	Doctoral: PhD Program	<i>Preceptor</i>
Summer 2007	<b>NUR 1061</b> Independent Study	1	Baccalaureate: Senior (Prelicensure)	<i>Individual Tutorial</i>
Summer 2007	<b>NUR 3045</b> Research Practicum	1	Doctoral: PhD Program	<i>Tutorial</i>
Summer 2007	<b>NUR 2050</b> Research Practicum: Grantwriting	1	Masters: Research Advanced Specialty Role	<i>Tutorial</i>
Fall 2007	<b>NUR 1080</b> Introduction to Basic Statistics for Evidence-based Practice	26	Baccalaureate: Senior (Prelicensure)	Didactic
Fall 2007	<b>NUR 3060</b> Independent Study	1	Doctoral: PhD Program	<i>Tutorial</i>
Spring 2008	<b>NUR 1080</b> Introduction to Basic Statistics for Evidence-based Practice	11	Baccalaureate: Sophomore (Prelicensure), RN Options, and College of General Studies	Didactic
Fall 2008	<b>NUR 1080</b> Introduction to Basic Statistics for Evidence-based Practice	48	Baccalaureate: Freshman/Sophomore (Prelicensure) and RN Options	Didactic
Spring 2009	<b>NUR 1085</b> Ethics in Nursing and Health Care	33	Baccalaureate: Junior/Senior (Prelicensure and RN Options Nursing Students + Bioengineering Students	Didactic
Summer 2009	<b>NUR 1085</b> Ethics in Nursing and Health Care	21	Baccalaureate: Junior/Senior (2 <sup>nd</sup> Degree Accelerated Program) and RN Options Nursing Students	Didactic
Fall 2009	<b>NUR 1085</b> Ethics in Nursing and Health Care	40	Baccalaureate: Junior/Senior (Prelicensure) Nursing Students and RN Options Nursing Students	Didactic
Spring 2010	<b>NUR 0088</b> Introduction to Basic Statistics for Evidence-based Practice	11	Baccalaureate: Freshman/Sophomore (Prelicensure) and RN Options	Didactic

			Nursing Students	
Spring 2010	<b>NUR 1134</b> Transitions into Professional Nursing	6	Baccalaureate: Senior (Prelicensure)	Clinical
Spring 2010	<b>NUR 3045</b> Research Practicum	1	Doctoral: PhD Program	<i>Individual Tutorial</i>
Summer 2010	<b>NUR 1085</b> Ethics in Nursing and Health Care	16	Baccalaureate: 2 <sup>nd</sup> Degree Accelerated Program	Didactic
Fall 2010	<b>NUR 1085</b> Ethics in Nursing and Health Care	49	Baccalaureate: Junior (Prelicensure)	Didactic
Spring 2011	<b>NUR 1085</b> Ethics in Nursing and Health Care	43	Baccalaureate: Junior (Prelicensure)	Didactic

**Guest Lectures at the University of Pittsburgh: 2003-2014**

Term & Year	Course Number and Title	#	Level	Topic of Lecture
<b>SCHOOL OF NURSING</b>				
Spring 2003	<b>NUR 1085</b> Ethics & Health Care	50	Baccalaureate	<i>Ethical Issues in Developing Personal Robotic Assistants for Older Adults</i>
Fall 2003	<b>NUR 1064</b> Healthcare for Older Adults	50	Baccalaureate	<i>Technology Promoting the Everyday Health of Older Adults</i>
Fall 2003 Fall 2004 Fall 2005 Spring 2007 Fall 2007 Fall 2008 Fall 2009 Fall 2010 Fall 2011	<b>NUR 2049/3049</b> Doctoral Research Seminar	10 10 12 8 8 10 8 6 6	Doctoral Doctoral Doctoral Doctoral Doctoral Doctoral Doctoral Doctoral Doctoral	<i>Developing a Program of Research</i>
Fall 2004	<b>NUR 1056</b> Nursing Informatics	120	Baccalaureate	<i>The Nursebot Project: Intelligent Assistive Technology for Older Adults</i>
Fall 2004	<b>NURSP 2075</b> Introduction to Nursing Informatics	20	Baccalaureate and Masters	<i>Intelligent Assistive Technology for Older Adults: Initial Field Studies</i>
Summer 2006	<b>NUR 1127/1128/1227</b> Community Health Nursing Theory/and Practicum	40	Baccalaureate	<i>Principles of Epidemiology</i>
Summer 2006	<b>NUR 1127/1128/1227</b> Community Health Nursing Theory/and Practicum	40	Baccalaureate	<i>Summarizing and Synthesizing the Literature</i>
Summer 2006	<b>NUR 1127/1128/1227</b> Community Health Nursing Theory/and Practicum	40	Baccalaureate	<i>Technologies for Everyday Life in the Community</i>

Summer 2007	<b>NUR 1127/1128/1227</b> Community Health Nursing Theory/and Practicum	30	Baccalaureate	<i>Disability, Aging, and Emerging Technologies in the Home and Community</i>
Fall 2007	<b>NUR 1127/1128</b> Community Health Nursing Theory/and Practicum	63	Baccalaureate	<i>Disability, Aging, and Emerging Technologies in the Home and Community</i>
Fall 2007	<b>NUR 0067</b> Nursing Research: Intro to Critical Appraisal & Evidence-based Practice	35	Baccalaureate	<i>Virtual Coach Project: Intelligent System Promoting Exercise Adherence among Persons with Knee Osteoarthritis</i>
Spring 2008	<b>NUR 1127/1128</b> Community Health Nursing Theory/and Practicum	68	Baccalaureate	<i>Technological Innovations for Everyday Life at Home and in the Community</i>
Spring 2010	<b>NUR 0067</b> Nursing Research: Intro to Critical Appraisal & Evidence-based Practice	55	Baccalaureate	<i>Enhancing Health and Independence: Intelligent Systems for Older Adults and Persons with Disabilities</i>
Spring 2011	<b>NUR 0067</b> Nursing Research: Intro to Critical Appraisal & Evidence-based Practice	100	Baccalaureate	<i>Challenges Encountered Analyzing Qualitative Data</i>
Spring 2011	<b>NUR 0051</b> Introduction to Professional Nursing	125	Baccalaureate	<i>Accepting Invitations to Sit at the Table</i>
Fall 2012	<b>NUR 1085</b> Ethics & Health Care	25	Baccalaureate	<i>Technology in Home and Community Care settings: Ethical Implications</i>
Spring 2013	<b>NUR 1085</b> Ethics & Health Care	25	Baccalaureate	<i>Technology in Home and Community Care settings: Ethical Implications</i>
Summer 2013	<b>NUR 3042</b> Research Emphasis Seminar: Chronic Disorders	7	Doctoral/Post-doctoral	<i>Technologies to Enhance Safety, Independence, and Quality of Daily Life</i>
<b>GRADUATE SCHOOL OF PUBLIC HEALTH</b>				
Spring 2005 Spring 2006	<b>BCHS 2532</b> Dimensions of Aging; Culture and Health	15 15	Masters and Doctoral	<i>The Nursebot Project and Other Intelligent Assistive Technology for Older Adults</i>
<b>SCHOOL OF HEALTH AND REHABILITATION SCIENCES</b>				
Fall 2014	<b>HRS 3000</b> Doctoral Seminar	40	Doctoral	<i>Use of a Wearable Camera System in Support of Dementia Caregiving</i>

**PhD Dissertations**

<b>Student</b>	<b>Title of Dissertation [Research Interest]</b>	<b>Faculty Role</b>	<b>Training Period</b>	<b>Current Position</b>
UNIVERSITY OF PITTSBURGH				
Jennifer Hagerty Lingler <i>Nursing</i>	The Role of Vigilance in the Stress-Health Process Model as Applied to Dementia Care Dyads	Dissertation Committee Member	1999-2004	Associate Professor University of Pittsburgh School of Nursing
Karen Paraska <i>Nursing</i>	Mammography Screening Behaviors in Relation to the Expanded Health Belief Model in a Sample of Homebound Women with Multiple Sclerosis	Dissertation Committee Member	1997-2005	Nurse Practitioner Med Express
Wendy A. Henderson <i>Nursing</i>	Testing a Model of Health Related Quality of Life in Persons with HIV and Liver Disease	Dissertation Committee Member	2004-2007	Chief, Digestive Disorders Unit, Intramural Research Program, National Institute of Nursing Research
Amol M. Karmarkar <i>Rehabilitation Science and Technology</i>	Prescription, Outcomes, and Risk Assessment of Wheelchairs for Aging Population	Dissertation Committee Member	2007-2009	Assistant Professor, Rehabilitation Sciences, University of Texas Medical Branch at Galveston
Jing Wang <i>Nursing</i>	The Effect of Social Problem Solving and Adherence to Self-Monitoring of Diet and Exercise on Weight Loss and Cardiometabolic Risk Factors in a Behavioral Weight Loss Program	Academic Advisor/ Dissertation Committee Member	2006 – 2009/ 2009 - 2010	Assistant Professor University of Texas Health Science Center at Houston School of Nursing
Claudia Kregg-Byers <i>Nursing</i>	Food Insecurity among Urban, Elderly African Americans	Dissertation Committee Member	2008 – 2014	Assistant Professor University of Pittsburgh School of Nursing
Grace Campbell <i>Nursing</i>	Post-stroke Cognition as a Predictor of Falls During Inpatient Rehabilitation	Academic Advisor/ Dissertation Chair	2007-2010/ 2010 - 2013	Assistant Professor University of Pittsburgh School of Nursing
Michael Manojlovich <i>Information Science</i>	Social Media Interaction Patterns For Older Populations	Dissertation Committee Member	2011 - 2015	Instructor Information Penn State Greater Allegheny

Harold Takyi <i>Health Information Management</i>	Confidentiality and Integrity of Emerging Healthcare Technologies: A Framework for Quality of Life Technologies to be IPAA/HITECH Compliant, with Emphasis on Clinical Kiosk Design	Dissertation Committee Member	2013 – present	Systems Analyst University of Pittsburgh Drug Discovery Institute
<b>CARNEGIE MELLON UNIVERSITY</b>				
Portia Taylor <i>Bioengineering</i>	Evaluating the Quality of Human Motion for <i>InForm</i> : A Sensor-Based System for Home Rehabilitation	Dissertation Committee Member	2010 - 2012	Research Scientist, Clinical Decision Support Solutions, Philips Research North America
Matthew Lee <i>Human-Computer Interaction (CMU)</i>	Task-based Embedded Assessment of Functional Abilities	Dissertation Committee Member	2010 - 2012	Research Staff, Clinical Decision Support Solutions, Philips Research North America

### Other Mentorship Activities

<b>Mentee(s)</b>	<b>Activities</b>	<b>Years</b>
<b>STUDENTS</b>		
Jing Wang <i>Nursing</i>	BSN-PhD Program Academic advisor <ul style="list-style-type: none"> <li>▪ Research interest: Self-management of chronic disorders (particularly medication adherence) among older individuals of Chinese descent</li> </ul>	2006-2009
Grace Campbell <i>Nursing</i>	PhD Program Academic advisor <ul style="list-style-type: none"> <li>▪ Research interest: Predictors of falls and fall prevention among persons in post-stroke rehabilitation</li> <li>▪ Co-sponsor (with Mary Beth Happ, PhD, RN) of John A. Hartford Foundation Building Academic Geriatric Nursing Capacity (BAGNC) Award (predoctoral fellowship: 2008-2010)</li> <li>▪ Sponsor of National Research Service Award Predoctoral Fellowship (2010-2013)</li> </ul>	2007-2013
Patricia Havrilla <i>Physical Therapy</i>	Faculty mentor for this senior-level undergraduate student from the School of Health and Rehabilitation Sciences during the Research Experience for Undergraduates [REU] Program, a National Science Foundation-funded, 10-week research practicum coordinated by the CMU/Pitt Quality of Life Technology Center	Summer 2007
Elizabeth Van Loon <i>Nursing</i>	Faculty mentor and sponsor for this undergraduate student who was successfully awarded a Brackenridge Summer Research Fellowship (Summer 2009) through the University of Pittsburgh Honors College and a Rotary International Ambassadorial Scholarship (for one year of graduate study in Africa)	Spring 2009 – Spring 2011
Katherine Prior <i>Nursing</i>	Faculty Mentor: Undergraduate Research Mentorship Program	Fall 2009 – Spring 2012

Jennifer Tran <i>Nursing</i>	Faculty Mentor: Undergraduate Research Mentorship Program	Fall 2009 – Summer 2012
Hannah Layfield <i>Nursing</i>	Faculty Mentor: Undergraduate Research Mentorship Program	Spring 2011 – Summer 2011
Rebecca Nock <i>Nursing</i>	Thesis Committee Member: BPhil (University of Pittsburgh Honors College)	Summer 2012 – Spring 2013
Jessica Fichner <i>Nursing</i>	Faculty Mentor: Undergraduate Research Mentorship Program	Fall 2015 - present
<b>FACULTY</b>		
Kyeongra Yang, PhD, MPH, RN <i>Nursing</i>	Peer advisor: Orientation and ongoing guidance regarding content and organization of the undergraduate Community Health Nursing courses	2006-2013
Fellow Faculty	Initiator: Behavior, Informatics, and Technology Scholarship Group for peer mentorship regarding abstract, grant, presentation, and manuscript preparation (E. Chasens, K. Courtney, A. Dabbs, G. el Saadawi, E. LaRue, H. Lee, E. Schlenk, & K. Yang)	2007 – 2009

### Service

#### Advisory Boards

- 1995 – 1996 Home Health Advanced Practice Masters Program Advisory Board  
Carlow College  
Pittsburgh, Pennsylvania
- 2006 – 2008 Professional Advisory Board  
AseraCare Home Health and Hospice, Inc.  
Pittsburgh, Pennsylvania
- 2011 – present Plan Advisory Committee  
Community LIFE  
Pittsburgh, Pennsylvania

#### University of Pittsburgh

- 2000 - 2010 University of Pittsburgh Council on Aging, Institute on Aging, Member
- 2000 - 2003 Gerontology Certificate Working Group, Member
- 2000 - 2011 University Center for Social and Urban Research, Faculty Associate
- 2000 - 2004 Steering Committee on Collaboration, Graduate School of Public Health and Allegheny County Health Department, Member
- 2004 - 2007 Institutional Review Board, Committee E Member
- 2005, 2010 Technology for Life and Living: Aging and Technology at the Cutting Edge Conferences (October 21, 2005 and March 26, 2010), co-sponsored by the University of Pittsburgh, Carnegie Mellon University, and the UPMC Aging Institute
- 2004 – 2005 Planning Committee, Member and Program Co-Director
- 2009 – 2010 Planning Committee, Member and Program Co-Director
- 2007 – 2008 Faculty Associate, Sara Fine Institute

**School of Nursing**

1993 – 1995	Doctoral Student Nursing Organization, President Planning and Budget Committee
1994 – 1995	Doctoral Student Representative
2004 – 2005	Member
2005 – 2006	Chair
1997 – 1999	Policy Committee, Member
1997 – 1998	Task Force for Policy Regarding Students Unfit for Duty during Clinical Hours, Member
1998 – 2000	Curriculum Committee, Member
1998 – 1999	International Initiatives Committee, Member
1998 – 2001	Ad Hoc Academic Integrity Advisory Board, Member
2009 – 2011	Academic Integrity Committee, Member
1998 – 1999	Standard I Group, Accreditation, Member BSN Council
2000 - 2001	Member
2004 - 2011	Member
2005 – 2006	NCLEX Committee, Chair
2007 – 2009	Typhon Implementation Task Force, Chair
2002 – 2005	MSN Council, Member
2000 – 2001	Ad Hoc Reappointment Committee, Member
2000 – 2003	Interdisciplinary Curriculum Work Group, Member PhD Council
2003 – 2011	Member
2005 – 2007	PhD Curriculum Committee, Member
2004 – 2005	Honors Program Task Force, Member
2004 – 2005	Clinical Nurse Leader Work Group, Member
2005 – 2006	Evidence-based Practice Accessing the Evidence Task Force, Member
2007 – 2010	Search Committee, Director of Center for Innovation in Clinical Learning Admission, Progression, and Graduation Committee

**School of Health and Rehabilitation Sciences**

2014	Department of Occupational Therapy, Ad Hoc Committee for faculty promotion review, Member
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**University Center for Social and Urban Research**

2012 – present	Planning and Budget Committee, Member
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**Community and Professional Organization Activities**

1995 – 1996	Eastern Nursing Research Society, Eighth Annual Scientific Conference (1996, April), Planning Committee and Graduate Student Subcommittee
1998	Blood pressure screening - Terrace Village Food Pantry and Hill House Association Senior Center, Pittsburgh, PA Sigma Theta Tau, Eta Chapter
1998 – 2000	Vice President



2001 – 2003            President  
2001 – 2002            Visiting Nurse Foundation/Giant Eagle Flu Immunization Program, Volunteer  
2003 – 2005            American Stroke Association, Operation Stroke, Rehabilitation/Recovery  
                                 Committee, Member  
2003                    American Academy of Nursing, Agenda Setting Group on Technological  
                                 Innovation for the Elderly. *Annual Meeting and Conference: Aging Across the  
                                 Lifespan: Living Well into Your 90s*. Carlsbad, CA (November 2003), Scribe  
2007                    Pittsburgh Vintage Grand Prix, First Aid