

**Sandra L Hubbard Winkler, PhD, OTR/L**  
**Curriculum Vitae**

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**CONTACT INFORMATION**

James A. Haley Veterans' Hospital  
Center of Innovation in Disabilities and Rehabilitation Research (CINDRR)  
8900 Grand Oak Circle (151R)  
Tampa, FL, 33637-1022  
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**EDUCATION AND TRAINING**

- 2004 PhD, Health and Rehabilitation Science, Rehabilitation Science and Technology, University of Pittsburgh
- 1990 MA, Special Education, New Mexico Highlands University
- 1974 BS, Occupational Therapy, University of Puget Sound
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|----------|---|--|
| 1-3/1975 | Stanford University Hospital<br>Palo Alto, CA     | Internship in Physical Dysfunction<br>Occupational Therapy     |
| 4-6/1975 | Emory John Brady Hospital<br>Colorado Springs, CO | Internship in Psychosocial Dysfunction<br>Occupational Therapy |

**Research Training**

- 2006 8<sup>th</sup> Annual Epidemiology, Biostatistics, Clinical Research Methods Summer Session. University of Washington, Seattle, WA
- 2005 ERRIS 3rd Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA
- 2004-2005 NIDRR Advanced Rehabilitation Research Training Post-Doctoral Fellowship Award, University of Florida, Gainesville, FL
- 2003-2004 VA Pre-Doctoral Associated Health Rehabilitation Research Fellowship Award
- 2003 University of Pittsburgh Provost Development Fund Pre-Doctoral Fellowship Award
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## **HONORS**

- 2012 Honorable Mention, Poster Presentation, Winkler, SL, Feng, H. Kairalla, J, Cowper Ripley, D, Hoenig, H. Evidence to Support the Need for Guidelines for the Provision of Assistive Technology. Miami VA Research Day Symposium May 2012. \*
- 2009-2010 Superior Performance Award, Department of Veterans Affairs
- 1998 Honorable Mention, Video Production, "Horses, Hearts & Heroes: Hippotherapy at the University of Texas Health Science Center at San Antonio, American Academy of Cerebral Palsy and Developmental Medicine Annual Conference,

## **APPOINTMENTS AND POSITIONS**

### **Research**

- 2015-present Supervisory Research Health Science Specialist  
Veterans Administration James A Haley VA Hospital  
Tampa, Florida
- 2011-2015 Research Health Scientist  
Veterans Administration Miami VA Healthcare System  
Miami, Florida
- 2005-2011 Research Health Scientist  
Veterans Administration Rehabilitations Research Outcomes Research  
Enhancement Award Program  
North Florida/South Georgia Veteran Health Sys  
Gainesville, Florida
- 2004-2005 Post-Doctoral Fellow  
NIDRR Advanced  
Rehabilitation Research Occupational Therapy Department  
University of Florida  
Gainesville, Florida
- 2003-2004 Pre-Doctoral Fellow  
Veterans Administration Human Engineering Research Laboratories  
Pittsburgh Highland VA  
University of Pittsburgh
- 2002-2003 Research Associate Human Engineering Research Laboratories  
Pittsburgh Highland VA  
University of Pittsburgh
- 2001-2002 Research Associate RERC on Wheeled Mobility  
University of Pittsburgh

### **Academic**

- 2015-present Adjunct Faculty Occupational Therapy Department  
NOVA Southeastern University  
Ft. Lauderdale, Florida

2012-2015	Assistant Professor	Occupational Therapy Department Nova Southeastern University Ft. Lauderdale, Florida
2011-2012	Adjunct Faculty	Occupational Therapy Department NOVA Southeastern University Ft. Lauderdale, Florida
2005-2011	Research Assistant Professor	Occupational Therapy Department University of Florida Gainesville, Florida
2002	Teaching Assistant	Rehabilitation Science Technology University of Pittsburgh
1997-2001	Assistant Professor	Occupational Therapy Department U of Texas Health Science Ctr at San Antonio

**Clinical**

2007-2009	Occupational Therapist	Gentiva Home Health Agency North Florida
1986-1997	Occupational Therapist Evaluation Specialist Coordinator	Preschool and Infant Evaluation Team University Affiliated Program (UAP) University of New Mexico
1995-1997	Occupational Therapist Developmental Disabilities	Pathways, Inc. Santa Fe, New Mexico
1994-1995	Occupational Therapist Birth to Three	La Vida Felicidad Los Lunas, New Mexico
1992-1995	Occupational Therapist Evaluation, Consultation	Albuquerque Public Schools Albuquerque, New Mexico
1991-1992	Occupational Therapist II Rehabilitation	St. Joseph's Rehabilitation Hospital Albuquerque, New Mexico
1990-1991	Occupational Therapist Evaluation, Treatment	Inyo County Department of Special Education Big Pine, California
1988-1989	Occupational Therapist Evaluation, Consultation	East Las Vegas Schools Las Vegas, New Mexico
1986-1988	Occupational Therapist II Rural Outreach	Northern New Mexico Rehabilitation Center Las Vegas, New Mexico
1985-1986	Occupational Therapist I Rehabilitation	Washoe Medical Rehabilitation & Trauma Center Reno, Nevada

1978-1980	Occupational Therapist Consultant, Geriatric	Inyo County Sanitariums Big Pine & Lone Pine, California
1975-1977	Occupational Therapist Pediatrics, Cerebral Palsy	California Hawaii Elks Major Project Inyo and Mono Counties, California
<b>Volunteer</b>		
1991	Occupational Therapist Hippotherapy, Counselor	AVANTI Sensory Integration Summer Camp Hudson, Wisconsin
1990	Occupational Therapist	Tijuana, Mexico

## CERTIFICATION AND LICENSURE

<b>Certifying Board</b>			<b>Year</b>
Rehabilitation Engineering Society of North America (ATP)			2003
North American Riding for the Handicapped Association (Registered Instructor)			1996
Nursing Child Assessment Satellite Training (NCAST)	WA		1995
American Hippotherapy Association (Registered)			1995
Sensory Integration and Praxis Test (SIPT)	CA	#6349	1993
National Board for Certification in Occupational Therapy	MD	#AA250852	1975
<b>Occupational Therapy Licensing Board/State</b>			
Florida	#11947		6/2005-2017
Pennsylvania	# OC008032		8/2001-6/2005
Texas	#108076		9/1997-12/2001
New Mexico	#199		8/1987-9/1997

## PROFESSIONAL MEMBERSHIPS

International Society for Virtual Rehabilitation	2014 (current)
Mixed Methods International Research Association	2014 (current)
American Congress of Rehabilitation Medicine	2007
Rehabilitation Engineering Society of North America (RESNA)	2003

Pennsylvania Occupational Therapy Association	2003
American Academy for Cerebral Palsy and Developmental Medicine	1998
American Hippotherapy Association	1992
North American Riding for the Handicapped Association	1992
American Occupational Therapy Association	1975 (current)

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## **PUBLICATIONS**

### **Refereed Journals**

1. Cook, N & Winkler, SL. Acceptance, usability and health applications of virtual worlds by older adults: a feasibility study. *Journal of Medical Internet Research*. (Accepted for publication, Jan 2016)
2. Winkler, SL and Chenail, R. Case Study: A Patient Stakeholder Perspective of Chronic Neck Pain. *The Qualitative Report*. (In Review)
3. Winkler, SL, Feng, H, Kairalla, JA. The relationship between assistive device provision and function in Veterans post-stroke. *American Journal of Occupational Therapy*. (In Preparation)
4. Winkler, SL, Cooper, R, Kraiger, K, Ludwig, A, Krueger, Alice, Gaunard, Ignacio, Fisher, A, Kairalla, J, Elliott, S, Wilson, S, and Esquenazi, A. Self-management intervention for amputees in a virtual world environment. *J Altern Med Res*. 9:2, 00-00, 2017.
5. Hubbard Winkler, SL, Romero, S, Prather, E, Ramroop, M, Slaibe, E, Christensen, M. Innovative power wheelchair control interface: A proof of concept study. *American Journal of Occupational Therapy*. 70:2, March 2016.
6. Kairalla, JA, Hubbard Winkler, SL, Feng, H. A structure-process-outcome approach to understanding the provision of mobility and activities of daily living devices and services. *American Journal of Occupational Therapy*. 70:1, January 2016.
7. Hoenig, H, Landerman, LR, Shipp, KM, Richardson, M., Pieper, C, Hubbard Winkler, S. A Preliminary Predictive Model for Wheelchair Use Four Months After Receipt. *Technology and Disability*. 24:1, 71-81, 2012.
8. Hubbard Winkler, SL, Wu, S., Cowper Ripley, DC, Groer, S., Hoenig, H. Medical utilization and cost outcomes for veterans post-stroke who receive assistive technology devices from the Veterans Health Administration. *Journal of Rehabilitation Research and Development*. 48:2: 125-134, March-April, 2011.
9. McFarland, L, Hubbard Winkler, SL, A, Heineman, Jones, M, Esquenazi, A. Unilateral upper limb loss: Satisfaction and prosthetic-device use in Veterans. *Journal of Rehabilitation Research and Development*. 47 (4): 275-298, July-August 2010.

10. Hubbard Winkler, SL, Vogel, B, Hoenig, H, Cowper-Ripley, DC, Wu, S, Fitzgerald, SG, Mann, WC, Reker, DM. Cost, utilization, and policy of provision of assistive technology devices to veterans post-stroke by the VA and Medicare. *Medical Care*. 48 (6): 558-562, June 2010.
11. Hubbard Winkler, SL, Cowper-Ripley, DC, Hoenig, H, Wu, S, Vogel, B, Fitzgerald, SG, Mann, WC, Reker, DM. Demographic and clinical variation in Veteran Health Administration assistive technology device provision to veterans post-stroke. *Archives of Physical Medicine and Rehabilitation*. 91 (3): 369-377, March 2010.
12. Giacobbi, PR, Levy, C, Dietrich, F, Hubbard Winkler, SL, Tillman, M, Chow, J. Wheelchair users' perceptions and experiences with power assist technology. *American Journal of Physical Medicine & Rehabilitation*. 89 (3): 225-234, March 2010.
13. Hubbard, SL, Fitzgerald, SG, Boninger, ML, Cooper, RA. Relationship between quality of wheelchair and quality of life. *Topics in Geriatric Rehabilitation*. 24 (3): 264-278, July/September 2008.
14. Kahle, JT, Highsmith, MJ, Hubbard, SL. Comparison of microprocessor and non-microprocessor controlled prosthetic knee joints. *Journal of Rehabilitation Research and Development*. 45 (1): 1-13, January 2008.
15. Hubbard, SL, Stutz-Tannenbaum, P, Beck, A. & Battaglia, C. Reliability and validity of the Occupational Therapy Attribute Scale (OTAS). *Journal of Allied Health*, 36 (4): 193-200, December 2007.
16. Ambrosio, F, Boninger, ML, Fitzgerald, SG, Hubbard, SL, Schwid, S, Cooper, RA. A comparison of mobility device delivery within the Veterans Administration for individuals with multiple sclerosis and individuals with a spinal cord injury. *Journal of Rehabilitation Research and Development*. 44 (5): 693-702, Sept-Oct, 2007.
17. Hubbard, SL, Fitzgerald, SG, Vogel, B, Reker, DM, Cooper, RA, & Boninger, ML. Distribution and cost of wheeled mobility devices provided by the Veterans Health Administration. *Journal of Rehabilitation Research and Development*, 44 (4): 581-592, July-Aug, 2007.
18. Hubbard, SL, Fitzgerald, SG, Reker, DM, Boninger, ML, & Cooper, RA. Demographic characteristics of veterans receiving wheelchairs and scooters from the Veterans Health Administration. *Journal of Rehabilitation Research and Development*, 43 (7), 831-844, Nov-Dec, 2006.
19. Hubbard, SL. Professional organizations: who should join? *American Journal of Occupational Therapy*. 59 (1): 113-116, 2005.
20. Hubbard, S. Disabilities studies and healthcare curriculum: the great divide. *Journal of Allied Health*. 33 (3): 184-188, 2004.
21. Ding, D, Cooper, RA, Kaminski, BA, Kanaly, JR, Allegretti, A, Chaves, E, Hubbard, SL. Integrated controls and related technology of assistive devices. *Assistive Technology*. 15 (2): 89-97, 2003.

## Technical Reports

1. Hubbard Winkler, SL, Feng, H, Kairalla, J, Cowper-Ripley, DC, Wang, X, Hoenig, H. Data cleaning strategies for VA NPPD assistive technology data. VA Information Resource Center (VIReC) Technical Report, <http://vaww.virec.research.va.gov/Reports/DV/DV-Hubbard-Winkler-NPPD-CY12.pdf>, (behind the VA firewall), October 2012.
2. Hubbard Winkler, SL, Cowper-Ripley, DC, Groer, Hoenig, H. Assessment of the National Prosthetics Patient Database: Preliminary study of validity. VA Information Resource Center (VIReC) Technical Report, <http://vaww.virec.research.va.gov/Reports/DV/DV-Hubbard-Winkler-NPPD-CY11.pdf>, (behind the VA firewall) January 2011.

## Book Chapters

1. Winkler, SL, Cooper, R., Kraiger, K, Ludwig, A., Kreuger, A, Gaunard, I, Fisher, A, Kairalla, J, Elliott, S, Wilson, S, Esquenazi, A. Self-management intervention for amputees in a virtual world environment. Nova Science Publishers. (In Press).
2. Hubbard Winkler, SL. (2010). Upper limb amputation and prosthetics, epidemiology, evidence, and outcomes. Care of the Combat Amputee, P. Pasquina and RA Cooper (Eds.). In Lounsbury, DE, Lenhart, M. (Eds.). Textbooks of Military Medicine. Washington DC: Department of the Army, Office of the Surgeon General, Borden Institute.  
  
The Borden Institute, publisher of the textbook Care of the Combat Amputee, received an award in The Washington Book Publishers' 2010 Book Design & Effectiveness Competition. The book won the First Place award in Technical Text category for Small to Medium Nonprofit organizations.
3. Hubbard, SL. (2007). A chronological and historical review of research related to Hippotherapy. In B. Engel (Ed.), Occupational Therapy: Enhancing human occupation through Hippotherapy. Rockville, MD: AOTA Press.
4. Hubbard, SL., Carr-Heyn, D. L. (2007). Inhibition of Tonic Bite: A Case Study. In B. Engel (Ed.), Occupational Therapy: Enhancing human occupation through Hippotherapy. Rockville, MD: AOTA Press.
5. Hubbard, S. (1997). Sensory integration as a frame of reference for the practice of hippotherapy with a pediatric clientele. In B. Engel (Ed.), Therapeutic Riding I: Strategies for Instruction. Durango, CO: Barbara Engel Therapy Services.

## Published Theses

Hubbard, SL. (2004). Effectiveness of the VA system at providing wheeled mobility devices. University of Pittsburgh.

## Unpublished Theses

Hubbard, SL. (1990). Hypotonia: Its relationship to respiratory problems. New Mexico Highlands University.

## Refereed Abstracts/Presentations

- Schlesinger, M, Winkler, SL. Virtual World experience of self-management of a chronic condition. AOTA Annual Conference, Chicago, April 2016. \*Student presentation
- Schlesinger, M, Winkler, SL, Hartley, G, Agrawal, V, Abreu, M, Bombara, V, Osborn, K. Effectiveness and Design of an Alternative Transfer Board Technology for Functional Mobility: SAFESLIDEBOARD. Florida Occupational Therapy Conference, Orlando, November, 2015. \*Student presentation
- Cook, N, Winkler, SL, Thambad, Shweta, Perez, A. Evaluating the health applications of virtual worlds among retired adults. Gerontological Society Annual Meeting, Orlando, November, 2015.
- Ramroop, M, Romero S, Prather, E, Slaibe, E, Winkler, SL. User testing of SPOOCI: an innovative power wheelchair control device. AOTA Annual Conference, Nashville, April 2015. \*Student presentation
- Winkler, SL, Cooper, R, Kraiger, K, Ludwig, A, Krueger, Gaunaurd, I, Fisher, A, Kairalla, J, Elliott, S, Wilson, S, Esquenazi, A. Self-management intervention for amputees in a virtual world environment. 10<sup>th</sup> International Conference on Disability, Virtual Reality, and Associated Technologies, Gothenburg, Sweden, September 2014.
- Koenig, M, Konikoff, K, Goldstein, N, Davis, K, Winkler, SL. The effect of prosthetic device use on occupational participation. AOTA Annual Conference. Philadelphia, April 2014. \*Student presentation
- Winkler, SL. Virtual Health Adventures: Innovative Dissemination of Health-related Evidence to Amputees. Nova Southeastern University Research Day, Ft. Lauderdale, FL, February 2014.
- Winkler, SL, Kairalla, J, Feng, H. Who gets which wheelchair or other assistive device: user versus facility predictors. Nova Southeastern University Research Day, Ft. Lauderdale, FL, February 2014.
- Slaibe, E, Romero S, Prather, E, Ramroop, M, Winkler, SL. Wheelchair User and Caregiver Experiences with Driving a Power Wheelchair with a Worn Controller (SPOOCI). Nova Southeastern University Research Day, Ft. Lauderdale, FL, February 2014. \*Student presentation
- Romero S, Prather, E., Ramroop, M, Slaibe, E, Winkler, SL. User and caregiver experiences of driving a power wheelchair with a worn controller versus a traditional joystick. Florida OT Annual Conference, Daytona Beach, FL, November 2013. \*Student presentation
- Koenig, M, Goldstein, N, Konikoff, K, Davis, K, Winkler, SL. The relationship between prosthetic device use, adjustment, and satisfaction and occupational participation. Florida OT Annual Conference. Daytona Beach, FL, November 2013. \*Student presentation
- Winkler, SL, Kairalla, J, Feng, H. Non-Veteran Level Factors Related to the Prescription of Assistive Technology Devices and Services to Veterans Post-stroke. Miami VA Research Day Symposium. May, 2013. \*Honorable Mention
- Agrawal, V, Winkler, S, Sanford, J. Wheelchair with Drop Down Armrest for Sliding Transfers by User. 2012 RESNA, Baltimore, MD. June 2012.

- Feng, Hua, Hubbard Winkler, SL, Kairalla, J, Cowper Ripley, D, Hoenig, H. The Provision Prediction of Assistive Technology Devices in Post-Stroke Veterans by Decision Modeling. Academy Health 2012 Annual Research Meeting, Orlando, FL. June 2012.
- Winkler, SL, Feng, H. Kairalla, J, Cowper Ripley, D, Hoenig, H. Evidence to Support the Need for Guidelines for the Provision of Assistive Technology. Miami VA Research Day Symposium May 2012. \*Honorable Mention
- Hubbard Winkler, SL, Hoenig, H, Cowper Ripley, D, Groer, S. Inpatient, Outpatient, and Cost Outcomes of Veterans Post-Stroke who Received Assistive Technology Devices from the Veterans Health Administration, Academy Health 2010 Annual Research Meeting, Seattle, WA. June, 2010.
- Hoenig, H, Winkler, SL, Levy, CE, Vandenberg, P, Williams, N, Ely, W, Morey, S, Chumbler, N. Tele-Technology Needs For Physical/Occupational Therapy, And Ability Of Existing Technology To Meet Those Needs. VHA Telehealth Leadership Forum: Telehealth 2010 and Beyond: Expanding Patient-Centric Care, St. Louis, MO. May, 2010.
- Hubbard Winkler, SL, Cowper Ripley, D, Hoenig, H, Wu, S, Vogel, WB, Fitzgerald, SG, Mann, WC, Reker, DM. Evidence to support the need for guidelines for the provision of assistive technology. 2009 RESNA: Assistive Technology and All That Jazz, New Orleans, LA. June, 2009.
- Tillman, M.D., Vallabhajosula, S., Chow, J.W., Fournier, K.A., Giacobbi, P., Hubbard, S. & Levy, C.E. Changes in upper extremity and trunk angular kinematics during power-assisted wheelchair use. Thematic poster presented at the 2009 American College of Sports Medicine Annual Meeting, Seattle, WA. May, 2009.
- Tillman, M.D., Chow, J.W., Fournier, K.A., Vallabhajosula, S., Giacobbi, P., Dietrich, F.D., Hubbard, S., & Levy, C.E. (2008, August). Changes in wheeling kinematics after 8 weeks of pushrim-activated power-assisted wheelchair use. Poster presented at the 2008 North American Congress on Biomechanics Meeting. Ann Arbor, MI, August, 2008.
- Hubbard, SL, Reker, DM, Mann, WC, Hoenig, H, Cowper Ripley, D, Vogel, WB, Wu, S, Fitzgerald, SG . Discharge disposition as a factor in provision of assistive technology to veterans post-stroke. International Conference on Aging, Disability, and Independence, St. Petersburg, FL, February, 2008.
- Hubbard, SL, Giacobbi, P, Dietrich, FD, Fournier, KA, Stancil, MA, Chow, JW, Tillman, MD, Burman, M, Levy, CE. Clinical considerations for prescription of pushrim-activated power-assist wheelchairs. International Conference on Aging, Disability, and Independence. St. Petersburg, FL, February, 2008.
- Tillman, MD, Chow, JW, Fournier, KA, Vallabhajosula, S, Giacobbi, P, Dietrich, FD, Hubbard, S, & Levy, CE. Changes in wheeling kinematics after 8 weeks of pushrim-activated power-assisted wheelchair use. Poster presented at the 2008 North American Congress on Biomechanics Meeting. Ann Arbor, MI, 2008.
- Hubbard, SL, Reker, DM, Hoenig, H, Cowper, D, Vogel, WB, Fitzgerald, SG, Wu, S, Mann, W. The provision of mobility-related devices to Veterans post-stroke. American Congress of Rehabilitation Medicine and American Society of Neuro-Rehabilitation Annual Conference, Washington, DC, October, 2007.

- Chow, JW, Tillman, MD, Fournier, KA, Vallabhajosula, S, Giacobbi, P, Dietrich, FD, Hubbard, SL, Levy, CE. Longitudinal Stroke Cycle Characteristics of Pushrim-Activated Power-Assisted Wheelchair Propulsion. XXIIth Congress of International Society of Biomechanics (ISB). Taipei, China, July 2007.
- Hubbard, SL, Chuck E Levy, Pete Giacobbi, John Chow, Michael A Stancil, Kim Fournier, Matt Burman, Rick Dietrick, Mark Tillman. Using qualitative methods to characterize power-assist wheelchair users. International Seating Symposium. Orlando, FL, March 2007.
- Levy, CE., Giacobbi, PR., Chow, J., Tillman, M., Hubbard, SL. The impact of power assist wheels on QoL: An interim report. International Seating Symposium. Orlando, FL, March 2007.
- Hubbard, SL. Occupational Therapy Attribute Scale (OTAS): Developing Professional Behaviors in Academic Education. AOTA Annual Conference. Charlotte, NC, April 2006.
- Hubbard, SL. Need for guidelines for provision of wheeled mobility devices. International Conference on Aging, Disability, and Independence. St. Petersburg, FL, February, 2006.
- Hubbard, SL. Health related quality of life and quality of wheelchair. International Conference on Aging, Disability, and Independence. St. Petersburg, FL, February, 2006.
- Hubbard, S. Demographic Characteristics of Veterans Receiving Wheelchairs and Scooters from the Veterans Health Administration. American Congress of Rehabilitation Medicine. Chicago, IL, October, 2006. Archives of Physical Medicine and Rehabilitation 86(10): pg e6, 2005.
- Hubbard, SL, Fitzgerald, SG, Reker, DM, Boninger, ML, & Cooper, RA. Characterization of veterans prescribed wheelchairs and scooters by the VHA. HSR&D 2005 National Meeting: Improving Care for Veterans with Chronic Illnesses, February 2005.
- Reker, DM, Fitzgerald, SG, Hubbard, SL, Hoenig, H, Cowper, D, Marshall, C, Mann, W. Veterans Health Administration National Prosthetics Patient Database (NPPD): Mobility Related Items and Data Validity. Veterans Health Administration QUERI National Meeting 2004: Lessons Learned on the Road to Sustainability, Washington DC, December, 2004.
- Reker, DM, Fitzgerald, SG, Hubbard, SL, Hoenig, H, Marquez, J, Cowper, D, Marshall, C, Mann, W. Veterans Health Administration National Prosthetics Patient Database: Preliminary Studies of Validity. American Congress of Rehabilitation Medicine and American Society of Neuro-Rehabilitation Annual Conference, Ponte Verde Beach, FL, September, 2004.
- Hubbard, SL, Fitzgerald, SG, Reker, DM, Kazis, LE & Downs, F. (2004). Relationship between health related quality of life and quality of wheelchair provided to veterans. RESNA 26<sup>th</sup> International Conference, Orlando, FL, June, 2004.
- Hubbard, SL & Spaeth, DM. Rate, accuracy and efficiency of text entry as a function of different computer access methods [CD Rom]. Proceedings of the RESNA 25<sup>th</sup> International Conference, Atlanta, GA, June, 2003.
- Hubbard, SL Tele-Rehabilitation: Physician-therapist collaboration. Texas Distant Learning Conference, San Antonio, TX, 2000.

Hubbard, SL UTHSCSA OT Dept. - Community assistive technology collaboration. Mt. Central OT Conference, Corpus Christi, TX, 2000.

Hubbard, SL Emotional development birth to three. Texas Fiesta Educativa, San Antonio, TX, 2000.

Hubbard, SL Linking technology to occupational therapy clinical education. Area Health Education Center National Conference, Louisville, KY, 1999.

Hubbard, SL Strategies for level II fieldwork supervisors. Mt. Central OT Conference, Galveston, TX, 1999.

Hubbard, SL Hippotherapy: Use of the horse in occupational therapy. Mt. Central OT Conference, Galveston, TX, 1997.

### **Other Professional Papers**

Hubbard, S. (2000). Pros and cons of remote supervision. OT Practice, 5 (24).

Hubbard, SL. (1998). Training fieldwork supervisors. OT Practice, 3 (11), 39-40.

### **Peer Reviewer**

Assistive Technology

American Journal of Occupational Therapy

American Journal of Physical Medicine & Rehabilitation

Archives of Physical Medicine & Rehabilitation

Dove Medical Press (Clinical Epidemiology, Innovation & Entrepreneurship in Health, Smart Homecare Technology and TeleHealth)

Early Human Development

International Journal of Rehabilitation Medicine

Journal of Rehabilitation Research and Development

Transactions of the American Society of Agricultural and Biological Engineers

Quality of Life Research

### **Media Developed**

*University of Pittsburgh*

Web Pages

<http://www.herlpitt.org/indiachair/indiachairsh/index.html> (manual wheelchair construction)

<http://www.wheelchairnet.org> (maintained website as part of research associate position)

*University of Texas Health Science Center at San Antonio*

Web Pages

<http://www.uthscsa.edu/sah/Hubbard/assistechn.htm> (student project, assistive technology)

<http://www.uthscsa.edu/sah/mtv.html> (health careers)

<http://www.uthscsa.edu/sah/ot.html> (OT Home page)

<http://www.cdlth.uthscsa.edu/Projects/OccupationalTherapy/Telerehab.html> (telerehabilitation)

<http://www.uthscsa.edu/ot2/ot2.html> (fieldwork)

## CD-Roms

1<sup>st</sup> & 2<sup>nd</sup> Grade Spelling using Intellikeys® alternative keyboard for San Antonio ISD (student project)

## Videos

2000 OT.AHEC

1998 Honorable Mention, American Academy of Cerebral Palsy and Developmental Medicine, "Horses, Hearts & Heroes: Hippotherapy at the University of Texas Health Science Center at San Antonio

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## PRESENTATIONS

### Invited Presentations

Winkler, SL. Partnerships for sustainable dissemination and implementation of evidence-based medicine. Agency for Healthcare Research and Quality Research Conference: Producing Evidence and Engaging Partners to Improve Healthcare, Washington, DC. October, 2015.

Winkler, Sandra L. Assistive technology research. Aging & Rehabilitation: An Interdisciplinary Research Series. Gainesville, FL, November, 2010.

Baum, C, Rogers, J, Mann, WC, Murphy, S, Schmid, A, Bendixen, R, Skidmore, E, Lin, S, Hubbard Winkler, SL. Latest OT research: Innovative research and the career pathways of scientists. American Occupational Therapy Annual Conference, Houston, TX, April, 2009. Panelist.

Jutai, J, Hubbard, SL. Conceptual models in AT outcomes research. Pre-Conference Session: Accelerating Advancement in AT Outcomes Research to Enhance Independence in Aging. International Conference on Aging, Disability, and Independence, St. Petersburg, FL, February, 2008. Moderator and Presenter.

Hubbard, SL. Therapeutic interventions for soldiers/service members with upper limb amputation. rehabilitation of the combat amputee- consensus conference and creating a roadmap for the future. Center for the Intrepid, Brooks Army Medical Center, Ft. Sam Houston, San Antonio, TX, September, 2007. Plenary Session.

Hubbard, SL. Assistive Technology Meets the Computer. Creating Your Future: Living with a Disability - United Spinal Association Annual Conference. Orlando, FL, August, 2007. Educational Session.

Hubbard, SL. Upper limb rehabilitation research & education programs/outcomes. State of the Science Workshop on Research to Clinical Practice for People with Upper Extremity Amputation and Prosthetics. Walter Reed Army Medical Center, Washington DC, March 2007. Plenary Session.

Hubbard, SL, Bendixen, R, Witte, M. Implementing assistive technology and home modifications for adults living with chronic disease. 1st Annual Clinical Fieldwork Educators Workshop. Gainesville, FL, November 2006.

Hubbard, SL, Bendixen, R, Witte, M. Occupational Therapy for adults with chronic disease. The Myositis Association 2006 Annual Conference. Orlando, FL, September 2006.

Tele-Rehabilitation. e-University: A New Frontier at UTHSCSA, e-healthcare tract, San Antonio, TX, 2001.

Sensory Integration in a Natural Environment. Texas State Early Intervention Conference, Austin, TX, 2000.

UTHSCSA OT Fieldwork Web Page. EDSIS Fieldwork Council, American Occupational Therapy Association Conference, Seattle, WA, 2000.

### **Informal Presentations**

“Upper extremity amputation and Prosthetics training for health care professionals. Module I: Introduction to upper extremity amputation. Rehabilitation Research Outcomes Center, Gainesville, FL, 2006.

### **Workshops and Short Courses:**

\*SPICES Training for Preceptors  
UT Pan Am, Edinburg, TX, 2001  
Laredo Community College, Laredo, TX, 1999, 2000  
Kerrville State Hospital, Kerrville, TX, 1998  
NW Regional Hospital, Corpus Christi, TX, 1997, 1988  
McKenna Memorial Hospital, New Braunfels, TX, 1998  
Tri-County Regional Hospital, Jourdanton, TX, 1997  
Boerne ISD, Boerne, TX, 1997.

\*Intellitools® Training (Alternative and Augmentative Communication)  
Carrizo Springs ISD, Carrizo Springs, TX, 2000, 2001  
Laredo Community College, Laredo, TX, 2000  
Eagle Pass ISD, Eagle Pass, TX, 2000.

\*Development of Oral Motor & Feeding Skills, San Antonio, TX, 1999.

\*Emotional Development: 0-3 Years  
San Antonio, TX, 1999  
Eagle Pass, TX, 1999.

\*Development of Clinical Reasoning, Fieldwork Fiesta, UTHSCSA, San Antonio, TX, 1998.

\*Sensory Integration as a Frame of Reference for the Practice of Hippotherapy with a Pediatric Clientele, Pipe Creek, TX, 1997.

Developing Competency in Feeding in Clients and Caregiver  
Albuquerque, NM, 1997  
\*Sante Fe, NM, 1996.

\* Course Director

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## PROFESSIONAL ACTIVITIES

### TEACHING

#### Mentorship

*Nova Southeastern University*

##### Entry-level Master Students

- |              |   |
|--------------|---|
| 2012-13      | K Davis, N Goldstein, M Koenig, K Konikoff<br>“Effect of Prosthetic Device Use on Occupational Participation”                                 |
| 2013-14      | E Prather, E Slaibe, M Ramroop<br>“Wheelchair User and Caregiver Experiences with Driving a Power Wheelchair with a Worn Controller (SPOOCI). |
| 2015-present | M Schlesinger<br>“SAFESLIDEBOARD” and Virtual World DAP-EM project  |

##### PhD Dissertation Students

- |              |   |
|--------------|---|
| 2015-present | R Kashani, Plymouth University, UK  |
| 2014-present | K Brevoort, Nova Southeastern University<br>“Effect of Slant Boards in Combination with Handwriting Practice”   |
| 2013-2015    | C Morress, Nova Southeastern University<br>“Predictors of Social and Activity Participation in Young Children with Cerebral Palsy”                          |
| 2013-2015    | R Dizazzo, Nova Southeastern University<br>“The Family Caregiver Training Program for caregivers of People with dementia: A randomized control group study” |

*University of Florida*

##### Undergraduate Level Students – Honors and Research

- |             |   |
|-------------|---|
| Spring 2009 | S Mersch<br>“Cost of Upper Limb Prosthetic Devices” |
|-------------|---|

##### Advanced Master Level Students – Capstone Project Mentor

- |             |   |
|-------------|---|
| Spring 2008 | C Diamond<br>“Implementing a sensory smart classroom”   |
| Spring 2007 | J Allen<br>“Driving with cognitive impairment - a review of the rehabilitation procedures for and concerns about obtaining permission to drive after cerebral damage”             |
| Fall 2006   | R Montz<br>“Integrating Occupational Therapy into the Army Rangers”   |
| Fall 2005   | M Whitechurch<br>“Implications and considerations of accessible web site design”<br>M Sherman<br>“A review of upper extremity assessments for pediatric and adult rehabilitation” |
| Summer 2005 | A Pardini<br>“Model for assistive technology in the schools”  |
| Spring 2005 | M Whitechurch<br>“Implications and considerations of accessible web site design”  |
| Fall 2005   | J Buxton  |

“Implications for oral stimulation with pre-term neonates: A review of evidenced based literature”

*University of Texas Health Science Center at San Antonio*

Mentor, Direct supervision of a university student from Madeburg University, Germany, in distance education, October-November, 2000.

Mentor, Health careers mentor using email, synchronous and asynchronous chat, of a high school student from the Mexico border town of Eagle Pass, TX, 1999.

Mentor, Health careers in occupational therapy, direct supervision of a high school student from the Communications Arts High School, San Antonio, TX, 1999.

### **Instructional Activities**

*Nova Southeastern University*

Graduate Courses

Winter 2015 OCT 7909 Program Evaluation and Outcome Measurement (course developer)  
Winter 2014-15 OCT 7005 Evidence Based Practice and Critical Thinking in Occupational Therapy  
Fall 2013-15 OCT 7420 Mixed Methods Research (course developer)  
Winter 2013 OCT 5174 Evidence-based Practice  
Winter 2012 OTH 5130 Human Interactions

Guest Lectures

Winter 2014 OCT 7820 Applying Measurement Theory to Evaluation  
Winter 2012-13 OCT 6980 Fieldwork Issues, “Occupational Therapy Attribute Scale”  
Summer 2012 HPD 7400 Research Design, “Experimental Design”  
Spring 2012 OTH 5015 Impact of Environment on Occupational Performance, “Assistive Technology”

*University of Florida*

Graduate Courses

PHC 6011 Epidemiology Methods II (project mentor)  
OTH 6641 Occupational Therapy Interventions I: Adult and Seniors (course director)  
OTH 6642 Occupational Therapy Interventions II: Adult and Seniors (course director)  
OTH 6635 Principles of OT Screening and Evaluation I: Pediatrics (co-instructor)  
OTH 6636 Principles of OT Screening and Evaluation II: Pediatrics (co-instructor)  
OTH 5816 Practicum in OT II (co-instructor)

Guest Lectures

Spring 2007 College of Nursing, “Assistive Technology and Home Modifications”  
Summer 2005 OTH 6933 Study Designs and Methods for Secondary Analysis of National Existing Databases

*University of Pittsburgh*

Undergraduate Courses

HRS 1000 Introduction to Research (teaching assistant)

*University of Texas Health Science Center at San Antonio*

Graduate Courses

OCCT 5020 Emotional Development Birth-3 & Attachment Disorder (guest lecturer)  
 OCCT 5023 Applied Statistics for Health Care Practitioners (co-instructor)  
 OCCT 6022 Environmental Technology II (co-instructor)  
 OCCT 5014 Tele-rehabilitation (guest lecturer)  
 OCCT 6020 The Alert Program (guest lecturer)  
 OCCT 6026 Psycho-Social Lab (PBL facilitator)  
 OCCT 5014 NCAST: Keys to Caregiving (guest lecturer)  
 Special Topics: Introduction to Hippotherapy (primary instructor)

#### Clinical Teaching

OT Level I Head Start Screenings, San Felipe Del Rio Head Start, Del Rio, TX (preceptor)  
 OT Level I Assistive Technology Lab, San Antonio ISD, San Antonio, TX (preceptor)  
 OT Level I Psychosocial Dysfunction, Youth Habitat of Texas, Comfort, TX (preceptor)  
 OT Level I Physical Dysfunction, Hondo Skilled Nursing Center, Hondo, TX (preceptor)  
 OT Level II Rural Community, South Texas, Eagle Pass, TX (preceptor)

#### *University of New Mexico*

#### Clinical Teaching

Master's level OT, PT, SLP, Medical students and residents, Dept. of Pediatrics, Preschool and Infant Evaluation Team (preceptor)

#### Other Clinical Teaching

OT Level II Albuquerque Public Schools, Albuquerque, NM (preceptor)  
 OT Level II St. Joseph Rehabilitation Center, Albuquerque, NM (preceptor)  
 OT Level II Northern New Mexico Rehabilitation Center, Las Vegas, NM (preceptor)  
 OT Level II Washoe Medical Center, Reno, NV (preceptor).

## RESEARCH

Role Award #	Grant Title	Agency	Amount	Years
Co-I (Internal)	Use of a Virtual World Environment by Retired Older Adults	Nova Southeastern University Health Professions Division	\$5,000	2014-2015
PI 1R24HS022021	Dissemination of Amputation and Prosthetic Evidence-based Medicine (DAP-EM)	Agency for Healthcare Research and Quality (AHRQ)	\$900,000	2013-2016
Co-I (subaward) R24 HD065702	Comparison of Rehabilitation Outcomes of Veterans and Medicare Beneficiaries	NIH R24 NICHD, NINDS Center for Rehabilitation Research using Large Datasets Pilot Project Subaward	\$862,298 \$30,000	2011-2012
PI (subaward) 2R44AG031605-02	Wheelchair with drop down armrest for sliding transfers by user	NIH, NIA Subaward	\$750,000 \$118,752	2010-2013
PI B1768R	Provision of Assistive Technology to Veterans Post-stroke	VA RR&D	\$381,384	2010-2013
PI 1R21HD053526-01A2	SPOOCI: Self-referenced Personal Orthotic Omni-purpose Control Interface	NIH NICHD	\$275,000	2010-2013

Co-PI B3881R	Provision of Mobility-Related Devices to Veterans with Stroke	VA RR&D	\$385,100	2005-2008
PI 614010000 H235J050020	Prosthetic & Orthotic Demonstration Project	University of South Florida USDOE/RSA	\$18,796	2005-2006
Co-I 1 R21 HD046540-01A1	Impact of Power-Assist Wheelchair on QoL	NIH	\$331,068	2005-2007
Co-I #F3736R	Assessment of the National Prosthetics Patient Database: Preliminary Studies of Validity	VA RR&D	\$74,500	2002-2003
Co-I	Effectiveness of the VA System of Providing Prosthetic Devices to Meet Veteran's Needs	VA Center for Health Equity Research and Promotion RR&D	\$10,000	2002-2003
Co-PI	An Interdisciplinary Web-Based Neuroscience Course for Allied Health Students	University of Texas Health Science Center at San Antonio Innovative Teaching Grant	\$5,000	2001-2002
Technology Coordinator	UTHSCSA Laredo Extension OTA to MOT Program	University of Texas Health Science Center at San Antonio South Texas Border Initiative	Unknown	1999-2001
PI	Occupational Therapy Clinical Education Program	University of Texas Health Science Center at San Antonio Area Health Education Center	\$32,000	1999-2000
PI	Reliability and Validity of the Occupational Therapy Attribute Scale	University of Texas University of Pittsburgh	Not funded	1998-present
Coordinator	Occupational Clinical Education Program	University of Texas Health Science Center at San Antonio Area Health Education Center	\$55,000 \$142,000 \$90,900	FY 1996 FY 1997 FY 1998

### Patents

2012 Sandra L Hubbard, Primary Inventor, U.S. Patent Application Docket No. UF.560XC2, Force-sensing orthotic electric device controller (Hubbard/Rosen), Serial No. 12/250,156; filed October 13, 2008, UF#-13041.

### Research Committees

VA Scientific Review Subcommittee, Miami, FL, 2012 – 2015

### Grant Review

VA Rehabilitation Research & Development Merit Review, Musculoskeletal/Orthopedic Rehabilitation, 2015

Nova Southeastern University, 2012-2015  
 Health Professions Division Grant Review Committee  
 College of Health Care Sciences Research Committee

NIH Scientific Review, Bioengineering Sciences and Technologies, 2013

Centers for Disease Control and Prevention, Atlanta, GA, 2006

University of Florida, College of Public Health and Health Professions, 2005-06

Health Research Center, University of Texas Health Science Center at San Antonio, 1999.

Inland Counties Developmental Disabilities Area Planning Board, 1975-1980.

## **SERVICE**

### **Patient Service**

*Nova Southeastern University*  
International Medical Outreach  
Jamaica, Summer 2012 and 2013

*University of Pittsburgh*  
Center for Assistive Technology, Mark Schmeler, OTR/L, Director, 2001. Provide direct service and follow up in seating and mobility and computer access including assessment, intervention and training.

*University of Texas Health Science Center at San Antonio*  
Consultation provided through University of Texas Health Science Center at San Antonio Area Health Education Center grant to OT clinical fieldwork sites in South Texas 1998-2001.

Carrizo Springs Head Start  
Carrizo Springs Independent School District  
Uvalde Memorial Hospital  
Hondo Skilled Nursing and Rehabilitation Center  
Eagle Pass Independent School District  
Youth Habitat of Texas.

Happy Trails Hippotherapy, Owner, 1993-2001.

HHH Equitherapy, Hippotherapy with children with cerebral palsy and autism, 1997-2000.

### **University Service**

#### **Department**

Member, Curriculum Committee, Occupational Therapy Department, University of Texas Health Science Center at San Antonio, 1998-2001.

Member, Admissions Committee, Occupational Therapy Department, University of Texas Health Science Center at San Antonio, 1998-2001.

#### **College/School**

Member, OT PhD Committee, College of Health Care Sciences, Nova Southeastern University, 2012-present.

Member, College Research Committee, College of Health Care Sciences, Nova Southeastern University, 2012-present.

Member, Financial Aid/Scholarship Committee, College of Public Health and Health Professions, University of Florida, 2006-2007.

Member, Committee on Distant Learning, School of Allied Health Science, University of Texas Health Science Center at San Antonio, 2000-2001.

Member, Allied Health Interface Distant Education Web Design Committee, School of Allied Health Science, University of Texas Health Science Center at San Antonio, 2000-2001.

Member, Benchmark Committee: Innovative Teaching, School of Allied Health Science, University of Texas Health Science Center at San Antonio, 1999.

Member, Clinical Lab Sciences Search Committee, School of Allied Health Science, University of Texas Health Science Center at San Antonio, 1998.

### **University**

Faculty Advisor, University of Florida Equestrian Team, 2007-2008.

Member, South Texas Health Research Center Advisory Board, University of Texas Health Science Center at San Antonio, 1998-2001.

Member, Center for Distance Learning & Tele-Health Advisory Committee, University of Texas Health Science Center at San Antonio, 1998-2001.

Member, Computing Resources Advisory Committee, University of Texas Health Science Center at San Antonio, 1998-2001.

Member, Campus Wide Information System Committee, University of Texas Health Science Center at San Antonio, 1998-2001.

### **Community Service**

Preschool Sunday School Teacher, 2005-06  
Elim Baptist Church, Ft. White, FL.

HHH Equitherapy, 1997-2000

Lone Star Therapeutic Equestrian Network, 1998.

### **State Leadership**

Hill Country Chapter of the Texas Infant Mental Health Association (Board of Directors), 2000-2001.

Texas Infant Mental Health Association (Chairman, Continuing Education Committee), 2000-2001.

Texas State Representative to New Scripts for 21<sup>st</sup> Century Services: An Innovative Model for Supporting Change and Reform in Interprofessional Preservice Training, Frank Porter Graham Child Development Center, The University of North Carolina at Chapel Hill, (Regional Team Leader), 1999-2001.

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## **CONTINUING EDUCATION UNIT (CEU) ACTIVITIES**

8<sup>th</sup> Annual Epidemiology, Biostatistics, Clinical Research Methods Summer Session. University of Washington, 2006.

Aging & Rehabilitation: An Interdisciplinary Research Seminar Series, University of Florida, 2005.

Symposium in AAC Evidence-Based Practice and Performance Measurement. AAC Institute, Pittsburgh, PA, 2003.

Biannual Pittsburgh Employment Conference (PEC), Strategies and Partners in Employment, Pittsburgh, PA, 2003.

RESNA 26th International Conference, Technology & Disability: Research, Design, Practice and Policy, Atlanta, GA, 2003.

Programming II, SAS Institute, Pittsburgh, PA, 2003.

Statistics II: ANOVA and Regression, SAS Institute, Pittsburgh, PA, 2003.

Essentials, SAS Institute, Cary, NC, 2003 (online).

Comprehensive Workshop in Seating and Wheeled Mobility, Pittsburgh, PA, 2003.

RESNA 25th International Conference, Technology & Disability: Research, Design, Practice and Policy, Minneapolis, MN, 2002.

Advanced Applications in Augmentative Communication, Katya Hill, PhD, SLP-CCC, Edinboro, PA, 2002.

Functional Classification for Children with Developmental Delays and Disabilities, Rune Simeonsson, PhD, MSPH, UCLID, Pittsburgh, PA, 2001.

8<sup>th</sup> Annual Pittsburgh Employment Conference (PEC), Roles of Mentoring and Personal Care Assistant Care in Employment, Pittsburgh, PA, 2001.

AUTHORWARE 5: Level 1, Macromedia University, 2001 (online).

FLASH: Level 1 and 2, Macromedia University, 2001 (online).

Teaching Evidence-Based Practice in Rehabilitation Professional Curricula, Sargent College of Health and Rehabilitation Sciences, Boston University, Boston, MA, 2001.

\*Intellitalk II, Patti Rea, MS, Carrizo Springs, TX, 2001.

HTML, UTHSCSA, San Antonio, TX, 2001.

\*Interactive Coaching for At-Risk Parents (ICAP), Meredith Censullo, PhD, RN, ANP, Laredo, TX, 2000.

Get SETT for Success with Assistive Technology! Considering, Using, and Evaluating Assistive Technology for Student Success, Joy Zavala, MEd, ATP, San Antonio, TX, 2000.

Disturbances and Disorders of Attachment in Infancy: An Overview, Sarah Hinshaw, LMSW-ACP, Austin, TX, 2000.

\*Introduction to Pedicatic Neurodevelopmental Treatment, Linda Caldwell, PT, Corpus Christi, TX, 2000.

\*Introduction to Adult Neurodevelopmental Treatment, Teddi Parkinson, PT, Corpus Christi, TX, 2000.

Putting Your Course On-line, Texas Virtual Campus, TX, 2000.

Preparing for Your First Semester with WebCT, San Antonio, TX, 2000.

Texas Distant Learning Association Annual Conference, San Antonio, TX, 2000.

Infant Emotional and Social Development: the Nature of Attachments, Michael Trout, Austin, TX, 2000.

Early Childhood Intervention Annual Conference, Austin, TX, 2000.

AOTA Conference, Seattle, WA, 2000.

Assistive Technology and Occupation-Based Outcomes Across the Lifespan, Shelley Lane and Joyce Hammel, AOTA, Seattle, WA, 2000.

EDSIS Fieldwork Council, AOTA, Seattle WA, 2000.

CAMA, El Paso, TX, 2000.

Intellitools Summer Conference, San Rafael, CA, 1999.

Advances in Neuroscience: Implications of Research on the Role of Early Experience on Neurodevelopment, University of Nebraska Medical Center, 1999, (video teleconference).  
The School Function Assessment: Administration & Interpretation, San Antonio, TX, 1999.

Intermediate Hippotherapy: Clinical Problem Solving, San Francisco, CA, 1998.

Every Move Counts, San Antonio, TX, 1998.

Picture Exchange Communication, San Antonio, TX, 1998.

Intellitools Assistive Technology, San Antonio, TX, 1998.

Discover Kenyx Assistive Technology, San Antonio, TX, 1998.

Boardmaker Assistive Technology, San Antonio, TX, 1998.

Facilitating Client Centered Reasoning: Problem Based Learning. Texas Women's University, Dallas, TX, 1998.

American Academy of Cerebral Palsy and Developmental Medicine Conference, San Antonio, TX, 1998.

Lone Star Therapeutic Equestrian Network Conference, Texas A&M University, College Station, TX, 1998.

Looking at How the Market and Technology are Driving Higher Education and How We Should Respond, University of Texas Health Science Center at San Antonio, TX, 1998.

Facilitating Development of Professional Behaviors in Physical Therapy Education, University of Texas Health Science Center at San Antonio, PT Department, TX, 1998.

Congress on Children, The University of Incarnate Word; Any Baby Can, Inc.; San Antonio, TX, 1998.

Transforming Outcomes Data into Management Information, Sargent College, Boston, MA, 1998.

Distance Learning Workshop, University of Texas Health Science Center, Office of Educational Resources, San Antonio, TX, 1998.

Intensive Grant Writing Seminar, Dr. Barbara Breier, University of Texas Health Science Center San Antonio, TX, 1998.

Infancy and Early Childhood Training Course, Dr. Stanley Greenspan, Washington, D.C., 1998.

Improving Student Performance Appraisal in Clinical Settings, University of Texas Health Science Center, Office of Educational Resources, San Antonio, TX, 1998.

Outcome-Based Rehabilitation for Children in Hospital, Ambulatory and Education Settings: Strategies for Documentation, Treatment Planning and Outcomes Management, Stephen Haley, PT, PhD, Driscoll Children's Hospital, Corpus Christi, TX, 1998.

Grant Writing Workshop, University of Texas Health Science Center, Division of Educational Research, San Antonio, TX, 1997.

Assessment and Treatment of Feeding and Swallowing Disorders in Children, Sandy Mader, SLP, CCC, San Antonio, TX, 1997.

Handwriting Without Tears; Jan Olsen, OTR, San Antonio, TX, 1997.

\*T.I.M.E. Workshop: Toddler Infant Motor Evaluation, Diane Legner, RPT, Corpus Christi, TX, 1997.

Hippotherapy: A Dynamic Approach, American Hippotherapy Association, Denver, CO, 1997.

Riding the Winds of Progress, 9<sup>th</sup> International Congress, North American Riding for the Handicapped Association, Denver, CO, 1997.

Linking Hand Assessment to Functional Treatment; Rhoda Erhardt, MS, OTR, FAOT, Center Point, TX, 1997.

Mobility Opportunities Via Education (M.O.V.E.), Ginny Paleg, RPT, San Antonio, TX, 1997.

Faculty Research Workshop, University of Texas Health Science Center, San Antonio, TX, 1997.

Infant and Early Childhood Mental Health Training Series, Los Cumbres Learning Services, Infant-Caregiver Relationships, Stephen Seligman, MD, Family Therapy with Young Children, Braulio Montalvo, MA, Childhood Trauma and Resiliency, Loyd Vigil; Espanola, NM, 1996.

Oral Motor Assessment and Intervention; Debra Beckman, MS, CCC-SLP; Albuquerque, NM, 1995.

The Development of Oral-Motor Skills in Children Receiving Non-Oral Feedings, Suzanne Evans Morris, CCC-SLP; Redwood City, CA, 1995.

Introduction to Hippotherapy, Terry Barnes, PT, Justin, TX, 1994.

Communication Disorders 593: Assessment of Infant and Toddlers, University of New Mexico, Albuquerque, NM, 1994.

Communication Disorders 539: Infants and Toddlers: Family-Centered Care, University of New Mexico, Albuquerque, NM, 1993.

Special Education 593: Touch Window for Early Childhood Education, Albuquerque, NM, 1993.

Vision Rehabilitation & Occupational Therapy: A Multi-Disciplinary Approach, Dr. Samuel Berne, Behavioral Optometrist; Sante Fe, NM, 1993.

National Autism Conference, Albuquerque, NM, 1992.

CranioSacral Therapy, Sante Fe, NM, 1992.

Advance Training in the Miller Assessment for Preschoolers, Albuquerque, NM, 1992.

The Wonderous Brain and Its Potential for Integration, 18<sup>th</sup> Annual Sensorimotor Integration Symposium, Josephine Moore, OTR, PhD, Patti Oetter, OTR and Steve Cool, PhD; San Diego, CA, 1990.

Hypotonia: Assessment and Management, 17<sup>th</sup> Annual Sensorimotor Integration Symposium, Josephine Moore, OTR, Ph.D., Regi Boehme, OTR and Barbara Hypes, PT; San Diego, CA, 1989.

The Mechanics of Respiration: A Critical link to Postural Control Movement and Phonation, Josephine Moore, OTR, Ph.D., Rona Alexander, CCC-SP and Barbara Cupps, PT; San Francisco, CA, 1989.

Swallowing Disorders: Assessment and Treatment, American Rehabilitation Education Network Series, 1989 (video teleconference).

Evaluation and Treatment of Children with Minor CNS Disorders, American Rehabilitation Education Network Series, 1988 (video teleconference).

Family Centered Intervention: Carl Dunst, PhD, Albuquerque, NM, 1988.

Integration of Speech-Language and Sensorimotor Therapies, Patti Oetter, OTR and Marci Laurel, SLP-CCC, Albuquerque, NM. 1988.

Sensory Affective Disorders: A New View of Tactile Defensiveness, Pat Wilbarger, OTR, Albuquerque, NM, 1988.

AVANTI Sensory Integration Summer Camp, Santa Barbara, CA, 1987.

Topics in Early Childhood Special Education, Patti Oetter, OTR, Santa Fe, NM, 1987.

Sensory Integration Praxis and Test Administration, Sensory Integration International, Phoenix, AZ. 1987.

A Neurological Foundation for Sensory Integration, Sensory Integration International, Los Angeles, CA, 1986.

Bobath Techniques for the OT in Treatment of Hemiplegia, Jan Davis, OTR, Los Gatos, CA. 1986.

The Shoulder in Hemiplegia, Rene Cailliet, MD, Jan Davis, OTR & Louise LaPitz, RPT, San Jose, CA, 1986.

American Rehabilitation Education Network Series: The Management of CP: A Neurodevelopmental Approach; Bobath: Upper Trunk Stabilization; Arthritis: Multi-Disiplinary Team Approaches; Stroke: Cognition, Perception and Language Management, Strategies; PNF for the OT and PT, 1986 (videoteleconference).

Head Trauma: Managing Memory Through Cognitive Rehabilitation, American Rehabilitation Education Network Series, 1993 (videoteleconference).

Treatment of Motor and Perceptual Dysfunction, Darcy Umphred, RPT, Reno, NV, 1985.

Management of Cerebral Palsy, University Medical School, Minneapolis, MN, 1978.

Feeding Assessment and Treatment of the CP Child, Miriam Lowrey; Fresno, CA, 1977.

Feeding Management Workshop, Pat Buehler, Palo Alto, CA, 1977.

Neural Development Training, Barbara Lowry, Sacramento, CA, 1976.

American Academy of Cerebral Palsy Conference, Los Angeles, CA, 1976.

So. California Sensory Integration Treatment Techniques, Los Angeles, CA, 1976.

Administration and Interpretation of the So. California Sensory Integration Test, Los Angeles, CA, 1975.

Josephine Moore Sensorimotor Integration Seminar, La Jolla, CA, 1975.

Visual Perception & Perceptual Motor Development; Frank Belgau, Los Angeles, CA, 1975.

World Federation of Occupational Therapy Conference Pediatric Study Course, Glenrose Hospital School; Edmonton, Alberta, Canada, 1974.

\* Course Director