

## CURRICULUM VITAE

Name: Dorian K. Rose

Address: Department of Physical Therapy  
College of Public Health and Health Professions  
University of Florida  
P.O. Box 100154  
Gainesville, FL 32610-0154

North Florida/South Georgia VHS  
Brain Rehabilitation and Research Center, 151A  
1601 S.W. Archer Road  
Gainesville, FL 32608

Email: dkrose@php.ufl.edu; [Dorian.Rose@va.gov](mailto:Dorian.Rose@va.gov)

Phone: 352-273-8307; 352-376-1611, Ext. 5238

### Education

2004 University of Southern California  
Los Angeles, California  
Ph.D., Biokinesiology

1993 University of North Carolina at Chapel Hill  
Chapel Hill, North Carolina  
M.S., Human Movement Science

1987-90 University of Pittsburgh  
Pittsburgh, Pennsylvania  
(Graduate Coursework)

1985 Daemen College  
Buffalo, New York  
B.S., Physical Therapy

Licensure: Physical Therapist; State of Florida

Certifications: Neurodevelopmental Treatment Association

### Employment and Positions Held

2007- Research Associate Professor  
Department of Physical Therapy  
College of Public Health and Health Professions  
Rehabilitation Scientist  
Brooks-PHHP Collaboration  
University of Florida  
Gainesville, Florida

- 2010- Research Health Scientist  
Brain Rehabilitation and Research Center  
North Florida/South Georgia Veterans Health System  
Gainesville, Florida
- 2005-2007 Research Assistant Professor  
Department of Aging and Geriatric Research  
College of Medicine  
University of Florida  
Gainesville, Florida
- 2005 Research Health Scientist  
Rehabilitation Outcomes Research Center  
North Florida/South Georgia Veterans Health System  
Gainesville, Florida
- 2000-2004 Graduate Research Assistant, NIH-NICHD Grant, "Extremity Constraint  
Induced Therapy Evaluation"  
University of Southern California  
Los Angeles, California
- 1999- 2000 Graduate Research Assistant, NIH-NICHD Grant, "Recovery and  
Rehabilitation of Arm Use After Stroke,"  
University of Southern California  
Los Angeles, California
- 1997-98 Graduate Research Assistant, Motor Control Development Laboratory,  
University of Southern California  
Los Angeles, California
- 1994 -97 Operations Manager  
Functional Assessment Laboratory  
UCLA Medical Center  
Los Angeles, California
- 1992-94 Senior Research Physical Therapist, "Do Changes in Strength Improve  
Balance and Function in Elderly Women and Men?"  
VA Rehab R&D Grant, E661-RA  
Veteran's Administration Medical Center  
Durham, North Carolina
- 1990-92 Graduate Research Assistant, "The Effects of Isokinetic Exercise on  
Motor Control in Spastic Hemiplegia"  
Foundation for Physical Therapy Grant  
University of North Carolina-Chapel Hill  
Chapel Hill, North Carolina
- 1991-92 Research Physical Therapist, "Dizziness in a Rural Primary Care  
Population,"  
National Institute on Aging Grant  
University of North Carolina-Chapel Hill

Chapel Hill, North Carolina

Additional Teaching Positions

- 2017 Medbridge (Instructor)  
*Predicting Recovery and Setting Appropriate Upper Extremity Goals Post-Stroke*  
*Upper Extremity Intervention Strategies Along the Post-Stroke Continuum*  
*Therapeutic Exercise Post-Stroke: Guided by Principles of Neuroplasticity*
- 2016 Allied Health Media (Instructor)  
*Update on the Upper Extremity: Beyond Constraint Induced Therapy*  
*Stroke Webinar Series*
- 2012 Universidad Nacional Autonoma Nicaragua  
*Using Objective Measurement to Improve Outcomes in Stroke Rehabilitation*  
Managua, Nicaragua
- 2012 Utica College  
Post-Professional DPT Program  
*Update in Neurological Physical Therapy*  
Sarasota, FL
- 2011 University of Florida/Shands Rehabilitation Neurologic Residency  
*Stroke Assessment Toolbox*  
*Locomotor Experience Applied Post-Stroke (LEAPS): What Does the Outcome of the LEAPS RCT Mean to the Physical Therapist?*  
Gainesville, FL
- 2009 HealthCare Professions Seminars (Instructor)  
*Moving Stroke Rehabilitation Forward – Bringing Advances in Neuroscience into Clinical Practice*  
Tampa, FL
- 2008 - 2011 University of North Florida (Guest Lecturer)  
Department of Athletic Training and Physical Therapy  
*Management of the Hemiplegic Upper Extremity Post-Stroke*
- 2006 - University Florida (Research Assistant Professor)  
College of Public Health and Health Professions  
Department of Physical Therapy  
PHT 6716 Neurological Rehabilitation
- 2005 University Florida (Courtesy Clinical Lecturer)  
College of Public Health and Health Professions  
Department of Physical Therapy  
PHT 6319C Neurological Rehabilitation; Stroke Unit
- 2005 University of Florida (Lecturer)  
School of Medicine

Department of Neurology  
Resident Lecture Series  
*Upper Extremity Rehabilitation Post-Stroke*

- 2003-2005 Dogwood Institute (Instructor)  
*Motor Learning and the Neurologic Patient*  
St. Louis, MO; Columbus, OH; Macon, GA, Fresno, CA
- 1997-2003 University of Southern California (Teaching Assistant)  
Department of Biokinesiology and Physical Therapy  
PT 618L Seminar in Advanced Neurologic Rehabilitation  
PT 627 Management of the Pediatric Patient  
PT 581 Clinical Management of the Neurologically Involved Patient  
PT 514L Human Gross Anatomy  
PT 646L Observational Gait Analysis
- 1995-2003 Mt. St. Mary's College (Instructor)  
Program in Physical Therapy  
PT 223 Management of the Neurological Patient  
PT 240B Advanced Patient Management: Neurologic
- 1995-96 Loma Linda University (Lab Assistant)  
Department of Physical Therapy  
PNF Approach to Therapeutic Exercise
- 1995-97 Chapman University (Guest Lecturer)  
Division of Physical Therapy  
Treadmill Training with Body Weight Support: Potential for Intervention in the Neurologic Population
- 1993-94 Duke University (Assistant Instructor)  
Program in Physical Therapy  
PT 320 Evaluation and Therapeutic Procedures I  
PT 322 Evaluation and Therapeutic Procedures III

University of Florida Graduate Committee Activities

<u>Student</u>	<u>Role</u>	<u>Major</u>	<u>Complete Date</u>
Kelly Hawkins	Committee Member	Rehab Science	May 2019 (expected)
S. Chatterjee	Committee Member	Rehab Science	Aug. 2017 (expected)
Julie Watson	Committee Member	Public Health	December 2015

Clinical

- 2014 Consultant  
Lakeland Regional Health  
Lakeland, Florida
- 2009 Consultant to the Brooks Stroke Wellness Program  
Brooks Rehabilitation Center

Jacksonville, Florida

- 1994 -2004 Physical Therapist  
Neurological Rehabilitation and Research Unit  
UCLA Medical Center  
Los Angeles, California
- 1991-92 Physical Therapist  
University of North Carolina Faculty Practice  
University of North Carolina Hospital  
Chapel Hill, North Carolina
- 1991-92 Physical Therapist (prn)  
North Carolina Memorial Hospital  
Chapel Hill, North Carolina
- 1991 Physical Therapist  
Balance/Dizziness Clinic for Older Adults  
University of North Carolina-Chapel Hill  
Chapel Hill, North Carolina
- 1985-90 Physical Therapist  
Harmarville Rehabilitation Center  
Pittsburgh, Pennsylvania

#### Peer Reviewed Publications

#### Manuscripts

**Rose DK**, DeMark L, Fox EJ, Clark DJ, Wludyka, P. Backward Walking to Improve Balance and Gait in Acute Stroke: A Pilot Randomized Controlled Trial. Journal of Neurologic Physical Therapy. Accepted, in press.

**Rose DK**, Nadeau S, Wu SS, Tilson JK, Dobkin BH, Pei, Q, Duncan PW. Locomotor Training and Strength and Balance Exercises for Walking Recovery Post-Stroke: Response to Number of Training Sessions. Physical Therapy. Accepted, in press.

Hawkins KA, Fox EJ, Daly JJ, Rose DK, Christou EA, McGuirk TE, Otzel DM, Butera KA, Chatterjee SA, Clark DJ. Executive Control of Walking in People with Mobility Deficits: an fNIRS study. Experimental Brain Research. Submitted; in review.

Hershberg JA, **Rose DK**, Tilson JK, Brusch BM, Correa AC, Gallichio J, McLeod MA, Moore CA, Wu SS, Duncan PW, Behrman AL for the LEAPS Investigative Team. Interface of clinical decision-making with study protocols for knowledge translation of a walking recovery trial. Journal of Neurologic Physical Therapy. 2017. 41(1):59-67.

Fox EJ, Foster HE, DeMark L, Spigel PM, **Rose DK**. The effects of backward walking training on balance and mobility in a person with chronic incomplete spinal cord injury: A case report. Physiotherapy Theory and Practice. 2016.Oct;32(7):536-45.

Chumbler NR, Li X, Quigley P, Morey MC, **Rose DK**, Griffiths P, Sanford J, Hoenig H. A randomized controlled trial on Stroke telerehabilitation: The effects on falls self-efficacy and satisfaction with care. Journal of Telemedicine and Telecare. 2015. 21(3): 139-143.

Nadeau S, **Rose DK**, Dobkin BH, Wu SS, Schofield R, Dai Y, Duncan PW. Likelihood of Myocardial Infarction during Stroke Rehabilitation Preceded by Cardiovascular Screening and an Exercise Tolerance Test: The LEAPS Experience. International Journal of Stroke. 2014. 9(8):1097-1104.

Clark DJ, **Rose DK**, Ring SA, Porges EC. Utilization of central nervous system resources for preparation and performance of complex walking tasks in older adults. Front. Aging Neurosci. 2014. 6:217.

**Rose DK**, Patten C, McGuirk T, Lu X, Triggs WJ. Does Inhibitory Repetitive Transcranial Magnetic Stimulation Augment Functional Task Practice to Improve Arm Recovery in Chronic Stroke? Stroke Treatment and Research. 2014;2014:305236.

**Rose DK**. Being Deliberate in Post-Acute Stroke: Strategies to Redeem the Time. Topics in Stroke Rehabilitation. 2014.21(4):281-289.

Dobkin BH, Nadeau S, Wu SS, **Rose DK**, Bowden MA, Studenski S, Lu X, Duncan PW. Prediction of responders to the interventions of the Locomotor Experience Applied Post-Stroke Clinical Trial. Journal of Rehabilitation and Development. 2014. 51(1):39-50.

**Rose DK**, Winstein CJ. Temporal Assimilation is More Robust than Spatial Assimilation: An Investigation of Interlimb Coordination after Stroke. Journal of Motor Behavior 2013; 45(4):313-324.

**Rose DK**, Schafer J, Conroy C. Extending the Continuum of Care Post-Stroke: Creating a Partnership to Provide a Community-Based Wellness Program. Journal of Neurologic Physical Therapy. 2013.37(2):78-84.

Sullivan J, Pinto-Zipp G, Crouner B, Kluding P, Nichols D, **Rose DK**, Yoshida R. Outcome Measures for Individuals with Stroke: Recommendations from the Neurology Section Task Force. Physical Therapy.2013 Oct;93(10):1383-96.

**Rose DK**, Behrman AL, Nadeau S, Martin AD, Schofield R, Tilson JK, Wu SS, Cen S, Lu X, Azen S, Duncan PW. Does Exercise Tolerance Testing at 60 days Post-Stroke Predict Rehabilitation Performance? Arch Phys Med Rehabil. 2013 Jul;94(7):1223-9.

Nadeau S, Wu SS, Dobkin BA, **Rose DK**, Tilson JK, Azen S, Duncan PW. Effects of task-specific and impairment-based training compared to usual care on functional walking ability after inpatient stroke rehabilitation: LEAPS trial. Neurorehabilitation Neural Repair. 2013 May;27(4):370-80.

**Rose DK**. Invited Discussant for podcast on: Nijland RH, van Wegen EE, Harmerling-van der Wel BC, Kwakkel G. Accuracy of Physical Therapists' Early Predictions Upper-Limb Function in Hospital Stroke Units: the EPOS Study. Physical Therapy. 2013. 93:460-469.

Behrman AL, Bowden MG, **Rose DK**. Clinical trials in neurorehabilitation. In Goode D

and Barnes M eds. Handbook of Clinical Neurology, Vol. 110: 61-66. Elsevier; 2013.

Chumbler NR, Quigley P, Li X, Morey MC, **Rose DK**, Sanford J, Griffiths P, Hoenig H. Effects of Telerehabilitation of Physical Function and Disability for Stroke Patients: A Randomized, Controlled Trial. Stroke. 2012 Aug;43(8):2168-74.

Tilson JK, Wu SS, Cen SY, Feng Q, **Rose DK**, Behrman AL, Azen S, Duncan PW, for the LEAPS Investigative Team. Characterizing and Identifying Risk for Falls in the LEAPS Study: A Randomized Clinical Trial of Interventions to Improve Walking Post-Stroke. Stroke, 43:446-52, 2012.

Duncan PW, Sullivan KJ, Behrman AL, Azen SP, Wu SS, Nadeau SE, Dobkin BH, **Rose DK**, Tilson JK, Cen SY, and Hayden SK, for the LEAPS Investigative Team. Body-Weight-Supported Treadmill Rehabilitation after Stroke. New England Journal of Medicine, 364(21):2026-2036, 2011.

Sullivan KJ, Tilson JK, Cen SY, **Rose DK**, Hershberg J, Correa A, Gallichio J, McLeod M, Moore C, Wu SS, Duncan PW. Fugl-Meyer Assessment of Post-Stroke Sensorimotor Function: Standardized Training Procedure for Clinical Practice and Clinical Trials. Stroke. 42: 427-32, 2011.

**Rose DK**, Paris T, Crews E, Wu S, Aqui S, Behrman AL, Duncan PW. Feasibility and Effectiveness of Circuit Training in Acute Stroke Rehabilitation. Neurorehabilitation and Neural Repair 25: 140-148, 2011.

Chumbler NR, **Rose DK**, Griffiths P, Quigley P, McGee-Hernandez N, Carlson, KA, Vandenberg P, Morey MC, Sanford, J, Hoenig H. Study protocol: home-based telehealth stroke care: a randomized trial for veteran. Trials, 11:74, 2010.

Chumbler NR, Quigley P, Sanford J, Griffiths P, **Rose DK**, Morey MC, Ely EW, Hoenig H. "Implementing tele-rehabilitation for Stroke rehabilitation with community dwelling veterans: Lessons Learned." International Journal of Telerehabilitation 2(1): 15-22, 2010.

Tilson JK, Sullivan KJ, Cen SY, **Rose DK**, Koradia C, Azen SP, Duncan PW. Meaningful gait speed improvement during the first 60 days post-stroke: minimal clinically important difference. Physical Therapy 90(2):196-208, 2010.

Duncan PW, Sullivan KJ, Behrman AL, Azen SP, Wu SS, Nadeau SE, Dobkin BH, **Rose DK**, Tilson JK. Protocol for the Locomotor Experience Applied Post-stroke (LEAPS) trial: a randomized controlled trial. BMC Neurology, Nov 8; 7:39, 2007.

Wolf SL, Thompson PA, Morris DM, **Rose DK**, Winstein CJ, Taub E, Giuliani C The EXCITE Trial: Attributes of the Wolf Motor Function Test in Patients with Sub-acute Stroke. Neurorehabilitation and Neural Repair 19: 194-205, 2005.

**Rose DK**, Winstein CJ. The coordination of bimanual symmetrical rapid aiming movements following stroke. Clinical Rehabilitation 19 (4): 452-462, 2005.

**Rose DK**, Winstein CJ. Bimanual training after Stroke: Are Two Hands better than One? Topics in Stroke Rehabilitation 11(4): 20-30, 2004.

Winstein CJ, **Rose DK**, Tan SM, Lewthwaite R, Chui HC, Azen SP. A Randomized Controlled Comparison of Upper Extremity Rehabilitation Strategies In Acute Stroke: Immediate And Longer-Term Outcomes. Archives of Physical Medicine and Rehabilitation, 85: 620-8, 2004.

Hassid E, **Rose DK**, Commisarow J, Guttry M, Dobkin BH. Improved Gait Symmetry in Hemiparetic Stroke Patients Induced During Body Weight-Supported Treadmill Stepping. Journal of Neurologic Rehabilitation, 11: 21-6, 1997.

Hughes MA, Duncan PW, **Rose DK**, Chandler JM, Studenski SA. The Relationship of Postural Sway to Sensorimotor Function, Functional Performance, and Disability in the Elderly. Archives of Physical Medicine and Rehabilitation, 77: 567-572, 1996.

Light KE, **Rose DK**, Purser JL. The Functional Reach Test for Balance: Strategies of Elderly Subjects With and Without Disequilibrium. Physical and Occupational Therapy in Geriatrics, 14: 39-52, 1996.

Light KE, Purser JL, **Rose DK**. The Functional Reach Test for Balance: Criterion-Related Validity of Clinical Observations. Issues on Aging, 28 (2): 5-9, 1995.

Behrman AL, Bowden MG, **Rose DK**. Clinical trials in neurorehabilitation. In Goode D and Barnes M eds. Handbook of Clinical Neurology, Vol. 110: 61-66. Elsevier; 2013.

#### Proceedings

Chumbler NR, Li X, Quigley P, Morey MC, **Rose DK**, Griffiths P, Sanford J, Hoenig H. 2014. A home-based telerehabilitation randomized trial for stroke care: Effects on falls self-efficacy and satisfaction with care. Proceedings of the IEEE Int Conf Collaboration Technology & Systems; 436-440. [978-1-4799-5158-1].

**Rose DK**, Harkema SH, Dobkin BA. A Comparison of Body Weight Supported Treadmill Walking and Over ground Walking in Patients After Stroke. Neurology Report, 20 (2), p. 56-60, 1996.

**Rose DK**, Harkema SH, Hurley S, Yap, R Dobkin BA Electromyographic Responses to Loading of the Lower Limbs in Patients with Stroke. Neurology Report, 20 (2), p. 66-70, 1996.

**Rose DK**, Giuliani CA, Light KE. The Immediate Effects of Isokinetic Exercise on Selected Temporal Distance Characteristics of Self-Selected and Fast Hemiplegic Gait. Proceedings of the Neurology Section Forum on Physical Therapy Issues Related to CVA, p. 37-44, 1992.

Giuliani CA, **Rose DK**, Light KE. The Effects of an Isokinetic Exercise Program on the Performance of Sit-to-Stand in Patients with Hemiparesis. Proceedings of the Neurology Section Forum on Physical Therapy Issues Related to CVA, p. 49-56, 1992.

#### Peer Reviewed Scientific and Invited Presentations

Bland MD, **Rose DK**, Zipp G, Byl N, Capo-Lugo C, Anderson H, Sulwer M, Yoshida R.



EDGE-ucation 2.0: Moving Forward the Value of Physical Therapy. Accepted for presentation at the 2017 Education Leadership Conference, Columbus, OH, October 15, 2017

Howarth J, Bauer A, Carey-Love S, Lenzo M, Taylor, A, Trang B, Fox E, Vistamehr A, Conroy C, **Rose DK**. Improved motor recovery, gait speed, and gait parameters following backwards walking training in an individual post-stroke. 2016 Brooks Annual Research Day, November 3, 2016, Jacksonville, FL.

Clark DJ, Fox EJ, **Rose DK**, Christou EA, Nadeau SE, Ring SA and Daly JJ. fNIRS neuroimaging during walking reveals high demand for executive locomotor control after stroke. Veterans Affairs Research Day, Gainesville Florida, May 15, 2015.

Ring SA, Fox EJ, **Rose DK**, Christou EA, Nadeau SE, Daly JJ and Clark DJ. fNIRS neuroimaging during walking reveals high demand for executive locomotor control after stroke. Society for Neuroscience, North Central Florida Chapter Conference, Gainesville Florida, March 20, 2015.

**Rose DK**, McGuire K, Patten C, Triggs WT. Non-Invasive Brain Stimulation to Enhance Arm Recovery Post-Stroke. 2014 Brooks Annual Research Day, October 22, 2014, Jacksonville, FL.

**Rose DK**, Rajaravivarma R, Rawlings S, Clark D. Developing the use of skin conductance as an objective physiological indicator of locomotor recovery after stroke. 2014 Brooks Annual Research Day, October 22, 2014, Jacksonville, FL.

**Rose DK**, DeMark L. Conducting Acute Rehabilitation Research: Feasibility of a Backward Walking Intervention Trial Post Stroke. 2013 Brooks Annual Research Day, October 23, 2013, Jacksonville, FL.

**Rose DK**, Patten C, Bergschneider F. Use of Ipsilesional Excitatory rTMS and Functional Task Practice to Enhance Arm Recovery Post-Stroke: Preliminary Results. 2013 Brooks Annual Research Day, October 23, 2013, Jacksonville, FL.

**Rose DK**, DeMark L. A Backward Walking Training Program to Improve Balance and Reduce Falls in Acute Stroke: A Feasibility Study. 2013 Brooks Annual Research Day, October 23, 2013, Jacksonville, FL.

**Rose DK**. Being Deliberate in Post-Acute Stroke: The Importance of Repetition, Intensity and Progression for Functional Improvement. Instruction in Techniques to Rehabilitate, Evaluate, and Assess in Stroke, American Society of Neurorehabilitation. The Ohio State University Wexner Medical Center, June 22, 2013, Columbus, OH.

**Rose DK**, Patten C. Inhibitory rTMS: Can it Augment Functional Task Practice to Improve Arm Recovery Post-Stroke? 2012 Brooks Annual Research Day, October 24, 2012, Jacksonville, FL.

**Rose DK**. Exploring Adjuvant Therapies to Enhance Arm Recovery Post-Stroke. K12 Rehabilitation Research Career Development Program Annual Meeting. Galveston, TX, August 14, 2012.

**Rose DK**, Duncan PW, Behrman AL, Tilson JK, Hershberg J, Moore C, Richards CL,

Shumway-Cook A, Hornby TG, Field-Fote E, Janis, S. The LEAPS Trial revisited: A Forum to discuss the design and results in the context of today's Research, Current Evidence and Clinical Practice in Post-Stroke Rehabilitation. Combined Sections Meeting of the American Physical Therapy Association, Chicago, IL, Feb. 11, 2012.

**Rose DK.** The Impact of Cardiopulmonary Status on Mobilization in Stroke Rehabilitation. Stroke Rehabilitation: Clinical Trials and Research Update. New York-Presbyterian Hospital/Weill Cornell Medical College, Nov. 4, 2011, New York, NY.

**Rose DK.** Brain Calisthenics - Creating an Environment for Change. Stroke Care Across the Continuum 2011 for American Heart Association and West Coast Acute Stroke Council. St. Petersburg College, Oct. 28, 2011, St. Petersburg, FL.

**Rose DK, Patten C.** Exploring Adjuvant Therapies to Enhance Arm Recovery Post-Stroke. 2011 Brooks Annual Research Day, October 19, 2011, Jacksonville, FL.

Shafer J, **Rose DK**, Paris T. Expansion of the Brooks Stroke Wellness Program: Collaborating to Return Area Stroke Survivors to Health. 2011 Brooks Annual Research Day, October 19, 2011, Jacksonville, FL.

**Rose DK.** Exercise Tolerance Test Performance in Subacute Stroke across Severity Levels. Canadian Stroke Congress, Ottawa, Ontario. Oct. 4, 2011.

**Rose DK.** Combining Neural and Behavioral Therapies to Advance Stroke Recovery. K12 Rehabilitation Research Career Development Program Annual Meeting. Gainesville, FL, May 18, 2011.

**Rose DK, Duncan PW, Behrman AL, Sullivan KJ, Tilson JK.** Locomotor Experience Applied Post-Stroke (LEAPS): What Does the Outcome of the LEAPS RCT Mean to the Physical Therapist? Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb. 12, 2011.

**Rose DK, Sullivan JE, Pinto-Zipp G, Nichols D, Crouner B, Kluding P, Yoshida R.** StrokEDGE: Report and Recommendations from the Neurology Section Task Force on Outcome Measurement for Individuals with Stroke. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb. 10, 2011.

Mueller M, Vandenborne, K. Funded Research and Early Career Development Opportunities (K12) for Faculty Members. Poster Presentation: **Rose DK, Patten C.** Combining Neural and Behavioral Therapies to Advance Stroke Recovery. Combined Sections Meeting of the American Physical Therapy Association, New Orleans, LA, Feb. 10, 2011.

**Rose DK, Patten CA, Naik S.** Transcranial Magnetic Stimulation: A Window into the Post-Stroke Brain. 2010 Brooks Annual Research Day, October 20, 2010.

Schafer J, **Rose DK**, Paris T. Returning to Health Post-Stroke: Opportunities at the Brooks Stroke Wellness Program. 2010 Brooks Annual Research Day, October 20, 2010.

**Rose DK.** Combining Neural and Behavioral Therapies to Advance Stroke Recovery.

K12 Rehabilitation Research Career Development Program Annual Meeting.  
Galveston, TX, May 17, 2010.

**Rose DK.** Training the Brain: Moving Stroke Rehabilitation Forward. Florida State Association of Rehabilitation Nurses, Orlando, FL, May 8, 2009.

**Rose DK.** Effective Stroke Rehabilitation: Are we being the Coaches our Patients Need? Florida Physical Therapy Association Spring Conference, Orlando, FL, March 21, 2009.

**Rose DK.** New Approaches to Rehabilitation. Stroke Belt Consortium, American Heart Association, Orlando, FL, December 16, 2008.

**Rose DK.** Update in Stroke Rehabilitation – Promoting an Environment for our Patients to Learn. Neural Perspectives '08: Changing the Face of Stroke, Oklahoma City, OK, September 19, 2008.

**Rose DK,** Sullivan KA. Stroke Concentrated Education Series. Task-Specific Strategies for Upper Limb and Walking Recovery. American Physical Therapy Association Annual Meeting, San Antonio, TX June 14, 2008.

**Rose DK.** Moving Stroke Rehabilitation Forward – Creating an Environment for our Patients to Learn. Pennsylvania Association of Rehabilitation Facilities, Harrisburg, PA, May 21, 2008.

**Rose DK.** Stroke Rehabilitation – Moving Forward with Advances in Clinical Neuroscience Physical Therapy Association of Washington Spring Conference, Seattle, WA, April 26, 2008.

**Rose DK,** Tilson JK, Gallichio J, Moore CA, Correa A, Hershberg J, McLeod M. Utilization of Standardized Outcome Measures Post-Stroke: Lessons learned from the LEAPS Clinical Trial. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN, Feb. 8, 2008.

**Rose DK.** Interventions and Strategies to Promote Neuroplasticity in Individuals with Neurologic Disorders. Utah Chapter APTA Annual Conference, Park City, UT, November 9-10, 2007.

**Rose DK.** Clinical Approach to Enhance Neural Recovery. Utah Stroke Symposium, Salt Lake City, UT, March 24, 2006.

**Rose DK.** One Hand or Two? :Designing Interventions for Successful Outcomes Post-Stroke. Combined Sections Meeting, American Physical Therapy Association, San Diego, CA, Feb. 3, 2006

**Rose DK.** Stroke Rehabilitation - Practice and Progress: Not Standing Still. Arizona Physical Therapy Association Neuro Update, Phoenix, AZ, January 28, 2006.

Whitall J, Winstein CJ, **Rose DK,** McCombe-Waller S, Harris-Love M. Does Focused Bilateral Arm Training Enhance Recovery Of Upper Limb Hemiparesis? Theory And Evidence. American Physical Therapy Association Annual Meeting, Chicago, IL, June 30, 2004.

**Rose DK.** Advances in Neurologic Therapy (What we know; Where we are going). Center for Sports Medicine and Rehabilitation, Northfield Hospital, Northfield, MN, Oct. 24-25, 2003.

Winstein CJ, Richards C, **Rose DK**, Barreca S, Saladin L. Translating Research into Clinical Practice for Patients Post-Stroke: Where are We? Combined Sections Meeting of the American Physical Therapy Association. Tampa, FL, Feb. 11-12, 2003.

**Rose DK.** Upper Extremity Functional Rehabilitation Following Stroke. Rehabilitation Nursing Potpourri XII: Clinical Update on Stroke, Los Angeles/Orange County Chapter of the Association of Rehabilitation Nurses. Los Angeles, CA, Feb. 8, 2003.

**Rose DK.** Strategies to Improve Upper Extremity Function Following Stroke. Twenty-third Annual Neurorehabilitation Conference on Traumatic Brain Injury and Stroke. Healthsouth Braintree Rehabilitation Hospital. Cambridge, MA, Nov. 17, 2002.

**Rose DK.** Exercise Guidelines following Stroke. California Association of Physical Educators in Disability Annual Meeting, San Diego, CA, October 16, 2001.

#### Abstracts presented at Professional Meetings

**Rose DK**, Vistamehr A, Conroy C, Howarth J, Fox EJ, DeMark L, Clark DJ. Backward Walking Training to Improve Balance Confidence and Forward Gait Speed Post-Stroke: Case Series. Accepted for presentation at the 94<sup>th</sup> Annual American Congress for Rehabilitation Medicine Conference. October 26, 2017.

**Rose DK**, Patten C, Triggs WJ. Can Excitatory rTMS Augment Task Practice to Improve Arm Movement Following Stroke? Veterans Affairs Research Day, Gainesville Florida, May 19, 2017.

Smith K, Hawkins K, **Rose DK**, Clark DJ and Fox E. Two Gait Interventions Improve Post-Stroke Walking Impairments. University of Florida, College of Public Health and Health Professions Research Day, April 12, 2017, Gainesville, FL.

**Rose DK**, Howarth JL, Patten C, George SZ. Backward Walking Training to Improve Walking Speed and Balance Confidence in an Individual with Chronic Stroke: A Case Report. UF Health Shands Hospital 4<sup>th</sup> Annual Stroke Conference, March 25, 2017, Gainesville, FL.

Albert C, Fox EJ, Daly JJ, **Rose DK**, Christou E, Hawkins KA, Otzel D, Butera K, Chatterjee, Clark DJ. Prefrontal Cortical Activation During Walking Predicts Dual-Task Costs. Presented at Celebration of Research, University of Florida College of Medicine, February 28, 2017, Gainesville, FL.

**Rose DK**, Howarth JL, Patten C, George SZ. Backward Walking Training to Improve Walking Speed and Balance Confidence in an Individual with Chronic Stroke: A Case Report. APTA Combined Sections Meeting, February 17, 2017, San Antonio, TX.

Chatterjee S, **Rose DK**, Porges E, Fox EF, Daly JJ, Christou E, Otzel D, Butera K, Clark DJ. Quantifying the perceived challenge of walking after stroke by measuring

sympathetic activation: a pilot study. APTA Combined Sections Meeting, February 17, 2017, San Antonio, TX.

Hawkins K, Fox E, Daly J, **Rose DK**, Christou E, Otzel D, Butera K, Chatterjee S, and Clark DJ. Thinking about walking: functional neuroimaging demonstrates increased demand for executive control of walking in adults with mobility deficits. APTA Combined Sections Meeting, February 17, 2017, San Antonio, TX.

Hawkins KA, Fox EJ, Daly JJ, **Rose DK**, Christou EA, Otzel DM, Butera KA, Chatterjee SA, and Clark DJ. Executive control of walking in adults with mobility deficits quantified by fNIRS neuroimaging. Society for Neuroscience, November 16, 2016, San Diego, CA.

**Rose DK**, Patten C, Taylor A, Triggs WJ. Priming the Ipsilesional Motor Cortex with Excitatory rTMS to Augment Functional Task Practice Post-Stroke. 93<sup>rd</sup> Annual American Congress of Rehabilitation Medicine, November 3, 2016, Chicago, IL.

Howarth J, Bauer A, Carey-Love S, Lenzo M, Taylor, A, Trang B, Fox E, Vistamehr A, Conroy C, **Rose DK**. Improved motor recovery, gait speed, and gait parameters following backwards walking training in an individual post chronic stroke. 93<sup>rd</sup> Annual American Congress of Rehabilitation Medicine, November 3, 2016, Chicago, IL.

Chatterjee SA, Daly JJ, **Rose DK**, Porges EC, Fox EJ, Christou EA, Otzel DM, Butera KA and Clark DJ. Sympathetic nervous system activity as a physiological assessment of the perceived challenge of walking after stroke. 7<sup>th</sup> Annual Spotlight on Aging Research, University of Florida, Gainesville FL, September 20 2016.

Hawkins K, Fox EJ, Daly JJ, **Rose DK**, Christou EA, Nadeau S, Otzel D, Butera K, Chatterjee S, and Clark DJ. Functional neuroimaging during walking quantifies demand for executive locomotor control. 7<sup>th</sup> Annual Spotlight on Aging Research, University of Florida, Gainesville FL, September 20 2016.

Albert C, Fox EJ, Daly JJ, **Rose DK**, Christou E, Hawkins KA, Otzel D, Butera K, Chatterjee, Clark DJ. Prefrontal Cortical Activation During Walking Predicts Dual-Task Costs. Presented at 7<sup>th</sup> Annual Spotlight on Aging Research, University of Florida Institute on Aging, September 20, 2016, Gainesville, FL.

**Rose DK**, Patten C, Triggs WJ. Does Excitatory rTMS Augment Functional Task Practice to Improve Arm Recovery Post-Stroke?. Presented at IV STEP Conference of the American Physical Therapy Association. July 17, 2016, Columbus, OH.

**Rose DK**, Patten C, Triggs WJ. Priming the Motor Cortex with Excitatory rTMS to Augment Functional Task Practice Post-Stroke. Published online at: [http://journals.lww.com/jnpt/Documents/CSM\\_2016\\_NeurologyPlatformAbstracts](http://journals.lww.com/jnpt/Documents/CSM_2016_NeurologyPlatformAbstracts). Combined Sections Meeting of the American Physical Therapy Association, Feb. 18, 2016, Anaheim, CA.

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2015. Indianapolis, IN.

**Rose DK**, Patten C, Reese C, Pastula RM. Investigating the Immediate and Retention Effects of Contralesional Inhibitory rTMS and Functional Task Practice to Enhance Arm Recovery Post-Stroke. *Journal of Neurologic Physical Therapy*. 2014. 38:15. Combined Sections Meeting of the American Physical Therapy Association, Feb. 6, 2014, Las Vegas, NV.

DeMark L, **Rose DK**. Backward Walking Training to Improve Mobility in Acute Stroke: A Feasibility Study. Published online at [http://journals.lww.com/jnpt/Documents/NeurologyPosterAbstracts\\_CSM\\_2014.pdf](http://journals.lww.com/jnpt/Documents/NeurologyPosterAbstracts_CSM_2014.pdf). Combined Sections Meeting of the American Physical Therapy Association, Feb. 6, 2014, Las Vegas, NV.

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Foster HE, DeMark L, Spigel PM, **Rose DK**, Fox EJ. Backward walking to improve balance and mobility in a person with a chronic spinal cord injury. Published online at: [http://journals.lww.com/jnpt/Documents/NeurologyPosterAbstracts\\_CSM\\_2014.pdf](http://journals.lww.com/jnpt/Documents/NeurologyPosterAbstracts_CSM_2014.pdf) Combined Sections Meeting of the American Physical Therapy Association, Feb. 6, 2014, Las Vegas, NV.

**Rose DK**, DeMark L. Backward Walking Training to Improve Mobility in Acute Stroke. *Archives of Physical Medicine and Rehabilitation*, 2013;94:e36.

**Rose DK**, Patten C., Reese C, Pastula RM. Enhancing Arm Recovery Post-Stroke: Use of Contralesional rTMS to Augment Functional Task Practice. *Archives of Physical Medicine and Rehabilitation*, 2013;94:e28.

**Rose DK**, Patten C. How Well Does Inhibitory rTMS Augment Functional Task Practice to Improve Arm Recovery Post-Stroke? Published online at: [http://journals.lww.com/jnpt/Documents/NeurologyPlatformAbstracts\\_CSM\\_2013.pdf](http://journals.lww.com/jnpt/Documents/NeurologyPlatformAbstracts_CSM_2013.pdf). Combined Sections Meeting of the American Physical Therapy Association, San Diego, CA, Jan. 23, 2013.

**Rose DK**, Behrman AL, Lu X, Sullivan KJ, Tilson JK Martin AD, Schofield RS, Wu S, Duncan PW. Informing Locomotor Training Prescription Post-Stroke. Published online at: [http://journals.lww.com/jnpt/Documents/NeurologyPosterAbstracts\\_CSM\\_2012.pdf](http://journals.lww.com/jnpt/Documents/NeurologyPosterAbstracts_CSM_2012.pdf). Combined Sections Meeting of the American Physical Therapy Association, Chicago, IL, Feb. 11, 2012.

**Rose DK**, Behrman AL, Cen Y, Sullivan KJ, Tilson JK Martin AD, Schofield RS, Wu S, Duncan PW. Exercise Tolerance Test Performance in Subacute Stroke across Severity Levels. *Canadian Stroke Congress*, Ottawa, Ontario. Oct. 4, 2011.

Behrman AL Sullivan KJ Wu S Nadeau S, Dobkin B, Azen SP, **Rose DK**, Tilson JK Cen

Y, Duncan PW. Functional Walking Ability 2 to 6 months after Stroke: Effects of Task-Specific and Impairment-Based Rehabilitation Programs Compared to Usual Care. Canadian Stroke Congress, Ottawa, Ontario. Oct. 4, 2011.

**Rose DK**, Paris, T, Duncan PW, Wu SS, Behrman AL, Crews E. Functional Improvement in Post-Acute Stroke: The Importance of Task-Specific Repetition and Progression. Published online at: <http://journals.lww.com/jnpt/Documents/Neuro%20Platforms%20CSM%202010.pdf>. Presented at CSM 2010, February 18, 2010, San Diego, CA.

**Rose DK**, Paris, T, Duncan PW, Wu SS, Behrman AL, Crews E. Functional Improvement in Post-Acute Stroke: The Importance of Repetition and Progression American Congress of Rehabilitation Medicine/American Society of Neurorehabilitation, Oct. 9, 2009 Denver, CO.

**Rose DK**, Paris, T, Duncan PW, Wu SS, Behrman AL, Crews E. Promoting Functional Improvement in Post-Acute Stroke: The Importance of Repetition and Progression Stroke. 40 (4). p. 148, 2009.

**Rose DK**, Behrman AL, Cen Y, Sullivan KJ, Tilson JK Martin AD, Schofield RS, Wu S, Nadeau S, Dobkin B, Duncan PW. Response to Exercise Tolerance Testing in Subacute Stroke across Severity Levels. Journal of Neurologic Physical Therapy. 32 (4). p. 211, 2008. Presented at CSM 2009, February 7, 2009, Las Vegas, NV.

Tilson JK, Sullivan KJ, Cen Y, **Rose DK**, Behrman AB, Wu SS, Azen SA. Determination of the Minimal Clinically Important Difference in the Lower Extremity Fugl-Meyer Motor Score in the First 60 Days Post-Stroke. Journal of Neurologic Physical Therapy. 32 (4). p. 210, 2008.

**Rose DK**, Duncan PW Cen Y Behrman AL, Sullivan KJ, Tilson JK, Wu S. Contributors to Self-Assessment of Quality of Life Post-Stroke. American Congress of Rehabilitation Medicine/American Society of Neurorehabilitation, Oct. 16, 2008 Toronto, Ontario.

**Rose DK**, Behrman AL, Cen Y, Sullivan KJ, Tilson JK Martin AD, Schofield RS, Wu S, Nadeau S, Dobkin D, Duncan PW. Response to Exercise Tolerance Testing in Subacute Stroke across Severity Levels. 6<sup>th</sup> World Stroke Congress. September. 25, 2008 Vienna, Austria.

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Tilson J, **Rose DK**, Xu L, Sullivan KJ. Inter-rater reliability of the Fugl-Meyer Assessment Tool in a Phase III, Multisite, Randomized Clinical Trial, World Confederation of Physical Therapy, June 2007, Vancouver, BC.

**Rose DK**, Winstein CJ. Bimanual Aiming Facilitates Paretic Limb Behavior Following

Stroke. Journal of Neurological Physical Therapy, 28 (4), p.171, 2004.

Winstein CJ, Mathews SA, Dong Y, Fisher BE, **Rose DK**. The Prognostic Value of Lesion Characteristics for Post-Stroke Upper Extremity Rehabilitation in the Acute Setting: a post-hoc analysis. Journal of Neurological Physical Therapy, 28 (4), p.175, 2004.

**Rose DK**, Winstein CJ. Bimanual Coordination of an Asymmetric Aiming Task in Humans with Stroke Related Brain Damage. Journal of Sport and Exercise Psychology, 26, p.S158, 2004.

**Rose DK**, Winstein CJ. The Nature of Bimanual Spatial Coupling Following Stroke. Journal of Sport and Exercise Psychology, 25, p.S112, 2003.

**Rose DK**, Winstein CJ. Bimanual Temporal and Spatial Coupling Following Stroke. [www.inpt.org](http://www.inpt.org), APTA Neurology Section Abstracts, 27 (4) 2003.

**Rose DK**, Winstein CJ. Interlimb Temporal Synchrony Following Stroke. Neurology Report, 26 (4), p.187, 2002.

**Rose DK**, Winstein CJ. Temporal Control of Bimanual Reaching Following Unilateral Brain Damage. Society for Neuroscience Abstracts, Vol. 28, Program No.666.3, 2002.

**Rose DK**, Winstein CJ. Are Two Limbs Better than One? Control of Bimanual Movement Following Stroke. Journal of Sport and Exercise Psychology, 24, p. S106, 2002.

**Rose DK**, Winstein CJ. A Randomized Comparison of Upper Extremity Intervention Strategies: Results at Six and Nine Months Post-Stroke. Proceedings of the International Stroke Symposium, April, 2002.

**Rose DK**, Winstein CJ, Gordon J. Bimanual Temporal Control Following Unilateral Brain Damage. Society for Neuroscience Abstracts, Vol. 27, Program No. 832.13, 2001.

**Rose DK**, Winstein CJ, Tan SM, Azen SP, Chui HC. Comparison of Upper Extremity Intervention Strategies at Six and Nine Months Post-Stroke. Neurology Report, 25 (4), p. 130, 2001.

**Rose DK**, Winstein CJ, Gordon J. Bimanual Motor Control Following Stroke. Neurology Report, 25(4), p. S231, 2001.

**Rose DK**, Winstein CJ, Yang AN, Weiss WB, Tan SM, Azen SP, Chui HC. Comparison of Upper Extremity Intervention Strategies in Acute Stroke. Neurology Report, 24 (5), p. 186, 2000.

**Rose DK**, Winstein CJ. Dual Mechanisms of Upper Extremity Recovery Following Unilateral Stroke. Program Abstracts 26 (1) Society for Neuroscience 30th Annual Meeting, p. 162, 2000.

**Rose DK**, Winstein CJ, Yang AN, Weiss WB, Tan SM, Azen SP, Chui HC. Relationship Between Upper Extremity Function and Impairment in Individuals with Unilateral Stroke. Neurology Report, 23 (5), p. 186, 1999.

**Rose DK**, Ganley KG, Bradley NS. Transformations in Embryonic Motility in Chick: E9 to



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**Rose DK**, Dobkin BH, Harkema SJ, Edgerton VE. Lumbosacral Motorpool Output of the Human Spinal Cord in Patients with Spinal Cord Injury, Cerebral Vascular Accident and Non-Injury. Program Abstracts American Academy of Neurology Annual Scientific Meeting. 1995.

**Rose DK**, Harkema SJ, Dobkin BA. A Comparison of Body Weight Supported Treadmill Walking and Over ground Walking in Patients After Stroke. Neurology Report. 19 (4), p. 12, 1995.

**Rose DK**, Harkema SJ, Hurley S, Yap, R Dobkin BA Electromyographic Responses to Loading of the Lower Limbs in Patients with Stroke. Program Abstracts, 21 (1) Society for Neuroscience 25th Annual Meeting. p. 416, 1995 and Neurology Report,19 (4), p. 24, 1995.

**Rose DK**, Duncan PW, Hughes MA, Chandler JM, Samsa G, Studenski SA. Postural Sway and its Relationship to Physical Impairment and Function. The Gerontologist. 33, 1993.

**Rose DK**, Giuliani CG. A Comparison of Overground Walking and Treadmill Walking in Patients with Cerebral Vascular Lesion. Neurology Report, 17(4), p. 23,1993.

Giuliani CG, Light KE, **Rose DK**. The Effect of an Isokinetic Exercise Program on Gait Patterns in Patients with Hemiparesis. Neurology Report, 17(4), p. 23, 1993.

**Rose DK**, Giuliani CA. Immediate Effects of Treadmill Exercise in Patients with Traumatic Brain Injury. Neurology Report, 16(4), p. 22, 1992.

Light KE, **Rose DK**, Cedar J. Use of the Functional Reach Test in a Balance and Dizziness Clinic for Older Adults. Neurology Report, 16(4), p.26, 1992.

**Rose DK**, Giuliani CA, Light KE. The Immediate Effects of Isokinetic Exercise on Selected Temporal Distance Characteristics of Self-Selected and Fast Hemiplegic Gait. Neurology Report, 15(4), p.18, 1991.

Light KE, **Rose DK**. Pursuit Rotor Tracking in Patients with Disequilibrium. Neurology Report, 15, p.10, 1991.

**Rose DK**, Norton BJ, Sahrman SA. Erector Spinae Participation during Shoulder Flexion in Three Positions. Physical Therapy, 66(5), p. 760,1986.

**Rose DK**, Norton BJ, Sahrman SA. Patterns of Stabilization in Erector Spinae Muscles During Shoulder Flexion. Physical Therapy, 66(5), p. 760, 1986.

#### Non-Peer Reviewed Publications

Getting Active – Staying Active. Stroke Connection. Published by the American Heart Association/American Stroke Association. September-October 2008. Pgs. 14-18.

Calm Before the Storm? Today in PT. Published on line February 15, 2010.  
<http://news.todayinot.com/article/20100215/TODAYINPT0103/100212012&SearchID=73471375250787>

#### Non-Peer Reviewed Presentations

**Rose DK**, Patten C, George SZ. *Backwards Walking Training to Improve Gait and Increase Fall-Related Efficacy Post-Stroke*. American Heart Association First Coast Associates Meeting, July 27, 2015, Jacksonville, FL.

**Rose DK**, DeMark L. *A Novel Strategy to Improve Gait and Increase Fall-Related Efficacy Post-Stroke*. American Heart Association North Central Florida Board of Directors Meeting, September 3, 2015, Jacksonville, FL.

Making Strides toward Recovery of Walking after Stroke. Malcom Randall VA BRRC SyNaPse Meeting. March 13, 2013. Gainesville, FL.

Functional Improvement in Post-Acute Stroke: The Importance of Task-Specific Practice, Repetition and Progression. Shands Rehabilitation Hospital, August 22, 2012. Gainesville, FL.

New Avenues in Assessing and Treating the Brain following Stroke: Investigations with Transcranial Magnetic Stimulation. Oak Hammock at The University of Florida. May18, 2012. Gainesville, FL.

The LEAPS Trial Revisited: A Closer Look at the Interventions. Shands Rehabilitation Hospital, November 16, 2011. Gainesville, FL.

#### Funded/Current Grant Activity

<u>Agency</u>	<u>Grant #</u>	<u>PI</u>	<u>Dates</u>
NIH	R21AG053736	Clark	6/01/2017 - 5/31/2019
Combining tDCS and neurorehabilitation to treat age-related deficits of mobility and cognition The purpose of this study is to demonstrate preliminary efficacy and feasibility of a novel therapeutic intervention that is designed to enhance mobility and cognition via neuroplasticity of prefrontal cerebral circuits in older adults with mobility deficits and cognitive/executive dysfunction. Role: Co-Investigator			
AHA	15MCPRP25670037	Rose	7/01/2015 - 6/30/2017
A Novel Strategy to Improve Gait and Falls Self-Efficacy Post-Stroke The purpose of this study is to compare the efficacy of two rehabilitation approaches on gait speed: a novel, experimental intervention that uses backward walking as the primary training modality and a standard of care comparison intervention of forward walking.			
VA RR&D	N2051-P	Rose	4/01/2016 - 3/31/2018
Biofeedback to Increase Propulsion during Walking after Stroke The purpose of this study is to test the hypothesis that biofeedback as an adjuvant to therapists' verbal feedback will improve propulsion and enhance walking function post-stroke.			

VA RR&D N2004-R Rose 7/01/2016 - 6/30/2020  
A Novel Strategy to Decrease Fall Incidence Post-Stroke  
The purpose of this study is to test a novel gait training strategy, backward walking, to improve gait speed, improve balance and decrease fall incidence post-stroke.

VA RR&D B1149R Clark 6/1/14-5/31/18  
Rehabilitation of Corticospinal Control of Walking after Stroke: The ABCs of Walking  
Role: Co-Investigator

VA RR&D B9252-C Daly 7/2014 – 6/2019  
Brain Rehabilitation Research Center of Excellence  
This “center of excellence” grant funds the research and administrative infrastructure of the Brain Rehabilitation Research Center.  
Role: Co-Investigator and Locomotor Initiative Co-Leader

Funded/Completed Grant Activity

<u>Agency</u>	<u>Grant #</u>	<u>PI</u>	<u>Dates</u>
VA RR&D	B6862W	Rose	2/1/10-9/30/15

Combining Neural and Behavioral Therapies to Enhance Stroke Recovery  
Role: Principal Investigator

VA BRRC 0214BRRC-13 Rose 3/1/14-9/30/15  
Developing the use of skin conductance as an objective physiological indicator of locomotor recovery after stroke  
Role: Co-Principal Investigator

Brooks Rehabilitation Rose 12/1/12-2/28/14  
A Backward Walking Training Program to Improve Balance and Reduce Falls in Acute Stroke: A Feasibility Study

JEK FL Biomed Rsrch Prgm 09KN-13 Rose 9/16/09-12/31/12  
Use of Repetitive Transcranial Magnetic Stimulation as an Adjuvant to Enhance Post-Stroke Recovery  
Role: Principal Investigator

NIH/NCMRR K12-HD055929 Ottenbacher 6/1/09 –12/31/12  
Rehabilitation Research Career Development Program  
Role: Scholar

NIH R21 AG031974 Mannini 9/15/09-8/31/11  
Task Specific Exercise for the Clinically Disabled  
Role: Consultant

NIH/NINDS 1 R01 NS050505-01 Duncan 9/25/05-6/30/11  
Locomotor Experience Applied Post-Stroke  
Role: Clinical Research Coordinator

VA RR&D B4492R Chumbler 1/1/07-10/30/10  
Home-Based Tele-Health Stroke Care: A Randomized Trial for Veterans  
Role: Co-Investigator

Brooks Endowment                                      Rose                      9/1/08-10/30/10  
Mechanisms of Restoring Gait Post-Stroke: Role of the Ankle Plantarflexors  
Role: Principal Investigator

Brooks Community Health Foundation              Rose                      7/27/07 – 1/30/09  
Translating Motor Learning and Neural Plasticity Principles to Stroke Care at Brooks  
Rehabilitation Hospital: From Efficacy to Effectiveness  
Role: Principal Investigator

NIH                      R01 HD46820                                      Kautz                      6/2004-6/2009  
Intermuscular coordination of hemiparetic walking  
Role: Consultant

### Membership in Scientific/Professional Organizations

American Physical Therapy Association (APTA)  
Section Membership: Geriatric Section, Neurology Section, Research Section  
American Heart Association/American Stroke Association  
American Congress of Rehabilitation Medicine  
Society for Neuroscience (1997-2004)  
North American Society for Psychology of Sport and Physical Activity (1998-2004)

### Professional Service

2015-present	APTA Neurology Section StrokEdge Task Force, Chair
2015	APTA IV STEP Conference, abstract reviewer
2014-present	Foundation for Physical Therapy, Scientific Advisory Committee
2009-present	Research Committee, Florida Chapter, American Physical Therapy Association (Grant and abstract reviewer)
2016	manuscript reviewer for <u>Experimental Brain Research</u>
2016	manuscript reviewer for <u>Journal of Visualized Experiments</u>
2016	manuscript reviewer for <u>Journal of Motor Behavior</u>
2015-present	manuscript reviewer for <u>Disability and Rehabilitation</u>
2015-present	manuscript reviewer for <u>Frontiers in Neuroscience</u>
2004-present	manuscript reviewer for <u>Physiotherapy Theory and Practice</u>
2010-present	manuscript reviewer for <u>Stroke Treatment and Research</u>
2009-present	manuscript reviewer for <u>Physical Therapy</u>
2008-present	manuscript reviewer for <u>Neurorehabilitation and Neural Repair</u>
2005-present	manuscript reviewer for <u>Archives of Physical Medicine and Rehabilitation</u>
1996 – present	manuscript reviewer for <u>Journal of Neurologic Physical Therapy</u>
2013	manuscript reviewer for <u>International Journal of Treatment and Research</u>
2010-2011	APTA Neurology Section Stroke Outcomes Task Force
2009-2010	APTA's Hooked on Evidence, Stroke Scenario Panel
2009-2011	American Heart Association/International Stroke Conference Abstract Reviewer
2009	Moderator for e-posters: Basic and Translational Neuroscience of Stroke Recovery and Multidisciplinary Clinical Rehabilitation, AHA
2009	Moderator for oral abstracts: Multidisciplinary Clinical Rehabilitation, American Heart Association

2007	Poster Tour Guide, American Physical Therapy Association Annual Meeting
2005-2009	Program Committee Chair, Neurology Section, APTA
2005-2009	Board of Directors, Neurology Section, APTA
2005-2007	III Step Dissemination Task Force, Neurology Section, APTA
2002	manuscript reviewer for <u>Physiotherapy in Practice</u>
2002	Poster Tour Guide, Neurology Section, Combined Sections Meeting, American Physical Therapy Association
2001	manuscript reviewer for <u>Neuropsychologia</u>
1997-2000	Nominating Committee, Neurology Section, APTA
1993 – 2005	Program Committee, Neurology Section, APTA

### Service to the University/College/Department

#### University Level

2015-2016	Commencement Marshall
2015	Graduate Student Research Day: Poster Judge
2010-2013	Commencement Marshall

#### College Level

2016-	Scientific Projects Committee, Malcom Randall VAMC
2016	T32 NIH Neuromuscular Plasticity Symposium: Poster Judge
2015	Think Tank on Cultural Diversity
2012-2015	T32 NIH Neuromuscular Plasticity Symposium: Abstract Reviewer
2011-2014	College of Public Health and Health Professions Research Day: Abstract Reviewer

#### Department Level

2017-	Neuronoons Committee
2016-	Equal Access Clinic, Faculty Supervisor
2015-2017	Doctor of Physical Therapy Admission Committee
2014-2015	Faculty Development Task Force
2011-2013	Academic Progression Committee
2008-2016	Scholarship Committee
2008	Professional Development and Leadership Task Force
2008	Marketing Task Force

#### Honors and Awards

2016	Poster Award finalist. American Congress of Rehabilitation Medicine ( <i>for the presentation: <b>Rose DK</b>, Patten C, Taylor A, Triggs WJ. Priming the Ipsilesional Motor Cortex with Excitatory rTMS to Augment Functional Task Practice Post-Stroke</i> )
2013	2012 Stroke Progress and Innovation Award ( <i>for the manuscript: Tilson JK, Wu SS, Cen SY, Feng Q, <b>Rose DK</b>, Behrman AL, Azen S, Duncan PW, for the LEAPS Investigative Team. Characterizing and Identifying Risk for Falls in the LEAPS Study: A Randomized Clinical Trial of Interventions to Improve Walking Poststroke Stroke, 43:446-52,2011.</i> )

- 2011 Dorothy Briggs Memorial Scientific Inquiry Award  
(for the manuscript: *Tilson JK, Sullivan KJ, Cen SY, **Rose DK**, Koradia C, Azen SP, Duncan PW. Meaningful gait speed improvement during the first 60 days post-stroke: minimal clinically important difference. Physical Therapy 90(2):196-208, 2010.*)
- 2010 J. Brooks Brown Annual Research Award, Brooks Rehabilitation Center
- 2010 APTA Neurology Section: Service to the Section Award
- 2009 Early Career Poster Award. American Congress of Rehabilitation Medicine/American Society of Neurorehabilitation (for the presentation: **Rose DK**, Paris, T, Duncan PW, Wu SS, Behrman AL, Crews E. *Functional Improvement in Post-Acute Stroke: The Importance of Repetition and Progression.*)
- 2004 Golden Cane Award  
(To honor and acknowledge graduates from the PhD program who have demonstrated the potential to be the leaders of the future in *Biokinesiology and Physical Therapy*)  
Department of Biokinesiology and Physical Therapy  
University of Southern California
- 2003-2004 Jacquelin Perry Scholar Award (\$1,000)  
Department of Biokinesiology and Physical Therapy  
University of Southern California
- 2002-2003 Promotion of Doctoral Studies II (\$15,000)  
Mary Lou Barnes Scholarship, Neurology Section  
Foundation for Physical Therapy
- 2000-2001 Promotion of Doctoral Studies I (\$7,500)  
Foundation for Physical Therapy
- 2000 Post-professional Student Research Award (\$1,000)  
Neurology Section, APTA
- 1999-2000 Promotion of Doctoral Studies I (\$7,500)  
Foundation for Physical Therapy
- 1993 Mary McMillian Post-professional Scholarship Award (\$1,000)  
American Physical Therapy Association
- 1992 Mary Clyde Singleton Award  
(For excellence in the coalescence of the art and science of physical therapy)  
University of North Carolina-Chapel Hill
- 1985 Student Professionalism Award  
Daemen College