

**CURRICULUM VITAE**  
**Carey Lane Holleran, PT, MPT, DHS, NCS**

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**EDUCATION**

University of Indianapolis	DHS	Neurology and Education	2014
Duquesne University	MPT	Physical Therapy	2004
Duquesne University	BS	Health Science	2003

**PROFESSIONAL LICENSE AND SPECIALTY CERTIFICATION**

American Physical Therapy Association, Neurologic Clinical Specialist	2007
American Physical Therapy Association, Certified Clinical Instructor	2015
Physical Therapist, State of Illinois, Department of Financial and Professional Regulation, Division of Professional Regulation, License No. 070015523	
Missouri Division of Professional Registration, Missouri Advisory Commission for Professional Physical Therapists, License No. 2011011358	

**PROFESSIONAL EXPERIENCE**

Program in Physical Therapy, Washington University in St Louis, School of Medicine Assistant Professor of Physical Therapy and Neurology	10/16-present
Physical Therapy and Human Movement Sciences, Northwestern University Feinberg School of Medicine, Contract Educator	07/15-09/16
Rehabilitation Institute of Chicago, Internal Academy, Staff Education Clinical Practice Leader, Neurologic Physical Therapy	01/15-09/16
Department of Physical Therapy and Department of Kinesiology and Nutrition University of Illinois at Chicago, Lecturer	1/13-03/15
Rehabilitation Institute of Chicago, Sensory Motor Performance Program Clinical Research Coordinator and Research Physical Therapist	10/09-09/16
Rehabilitation Institute of Chicago Inpatient Neurologic Physical Therapist	01/07-09/16
University of Pittsburgh Medical Center Institute for Rehabilitation and Research Inpatient Neurologic Physical Therapist	08/04-12/06

**PUBLICATIONS**

Mahtani GB, Kinnaird CR, Connolly MA, **Holleran CL**, Hennessy PW, Woodward J, Brazg G, Roth EJ, Hornby TG. Altered sagittal- and front-plane kinematics following high-intensity stepping training versus conventional interventions in subacute stroke. *Physical Therapy*. 2016 Sep 15. Epub ahead of print.

Leddy AL, Connolly M, **Holleran CL**, Hennessy PW, Woodward J, Arena RA, Roth EJ, Hornby TG. Alterations in aerobic exercise performance and gait economy following high-intensity dynamic stepping training in persons with subacute stroke. *Journal of Neurologic Physical Therapy*. 2016 Oct; 40(4):239-48.

Leech KA, Kinnaird CR, **Holleran CL**, Kahn J, Hornby TG. Effects of locomotor exercise intensity on gait performance in individuals with incomplete spinal cord injury. *Physical Therapy*. 2016 Jun 16. Epub ahead of print.

Hornby TG, **Holleran CL**, Hennessy PW, Leddy AL, Connolly M, Camardo J, Woodward J, Mahtani G, Lovell L, Roth EJ. Variable Intensive Early Walking Poststroke (VIEWS): A Randomized Controlled Trial. *Neurorehabilitation Neural Repair*. 2016 Jun; 30(5): 440-50.

- Holleran CL**, Rodriguez K, Echaz A, Leech K, Hornby TG. Potential contributions of training intensity on locomotor performance in individuals with chronic stroke. *Journal of Neurologic Physical Therapy*. 2015 Apr; 39(2):95-102.
- Hornby TG, **Holleran CL**, Leddy AL, Hennessy PW, Leech KA, Connolly M, Straube DD, Lovell L, Roth E. Feasibility of focused stepping practice during inpatient rehabilitation post-stroke and potential contributions to mobility outcomes. *Neurorehabilitation Neural Repair*. 2015 Nov-Dec; 29(10):923-32.
- Hornby TG, **Holleran CL**. Sleep Matters. *Journal of Neurologic Physical Therapy*. 2014 Jul;38(3):170-1.
- Straube DD, **Holleran CL**, Kinnaird CR, Leddy AL, Hennessy PW, Hornby TG. Effects of dynamic stepping training on non-locomotor tasks in individuals post-stroke. *Physical Therapy*. 2014 Jul;94(7):921-33.
- Holleran CL**, Straube DD, Kinnaird CR, Leddy AL, Hornby TG. Feasibility and Potential Efficacy of High-Intensity Stepping Training in Variable Contexts in Subacute and Chronic Stroke. *Neurorehabilitation Neural Repair*. 2014 Sep;28(7):643-51.
- Hornby TG, Kinnaird CR, **Holleran CL**, Rodriguez K, Rafferty M, Cain J. Kinematic, muscular, and metabolic responses during exoskeletal-, elliptical-, or therapist-assisted stepping in people with incomplete spinal cord injury. *Physical Therapy*. 2012 Oct; 92(10):1278-1291.
- Hornby TG, Straube DD, Kinnaird CR, **Holleran CL**, Echaz T, Rodriguez K, Wagner E, Narducci E. Importance of specificity, amount, and intensity of locomotor training to improve ambulatory function in patients post-stroke. *Topics in Stroke Rehabilitation*. 2011 Jul-Aug;18(4):293-307.

### **EDUCATIONAL SESSIONS PRESENTED AT PROFESSIONAL CONFERENCES**

- Walking the walk: Translating Research Evidence to Clinical Practice*. Co-presenter with T. George Hornby PT, PhD, Jennifer L Moore MPT, DHS, NCS, Patrick Hennessy MPT, NCS, and Jane Woodward MPT, NCS. Pre-conference Session Presented at the Combined Sections Meeting of the American Physical Therapy Association, February, 2016.
- Walking the Walk: Translating basic and applied findings of methods to improve locomotor recovery post-stroke to the clinical setting*. Co-presenter with T. George Hornby PT, PhD, Jennifer L Moore MPT, DHS, NCS, Patrick Hennessy, MPT, NCS. Educational Session Presented at the Combined Sections Meeting of the American Physical Therapy Association, February, 2015.
- Application of intensity, repetition, and trial and error in the clinic*. Co-presenter with T. George Hornby PT, PhD, Abigail Leddy MPT, NCS, MSCI. Educational Session Presented at the Illinois Physical Therapy Association Annual Conference, October 2012.

### **CONTINUING EDUCATION PRESENTATIONS AND INVITED LECTURES**

- Spinal Cord Injury Rehabilitation*. Invited presentation for Northwestern University graduate students and post-doctoral fellows. Movement and Rehabilitation Science Annual Clinical Bootcamp. Northwestern University Physical Therapy and Human Movement Sciences, August, 2015.
- Community mobility after Motor Incomplete Spinal Cord Injury (iSCI): Research Updates*. Rehabilitation Institute of Chicago Annual Spinal Cord Injury Conference, June, 2015.
- Walk the Walk: Locomotor Training for patients with stroke and spinal cord injury*. Course Chairperson and Faculty. Rehabilitation Institute of Chicago, March, 2014.
- Structuring Clinical Interventions to Maximize Recovery*. Clinical Research Grand Rounds. Rehabilitation Institute of Chicago, June, 2013.
- Walk the Walk: Locomotor Training for patients with stroke and brain injury*. Rehabilitation Institute of Chicago. Presentation and workshop, March 2012, March 2013.
- Locomotor Training in patients with spinal cord injury: Using prognostic indicators to structure interventions*. Presentation and workshop. Rehabilitation Institute of Chicago, June 2011, June 2012, June 2013, June 2014, June 2015.
- Incorporating Motor Learning into Locomotor Interventions*. Therapeutic Interventions for Neurorehabilitation Conference. Presentation and workshop. Rehabilitation Institute of Chicago, Chicago, IL, October 2012.
- Research Updates*. Rehabilitation Institute of Chicago. Locomotor Recovery Laboratory. Biannual presentations for clinical staff. 2011, 2012, 2013.
- Floor recovery, complex transfers, and gait in the individual with SCI*. Day Rehabilitation Program Internal Course. Rehabilitation Institute of Chicago, 2009.
- Interdisciplinary approach to Stroke Management*. Course Faculty. (5 Lectures). Jacksonville, TN. September, 2012.

*Strategies to Enrich the World of Rehabilitation: Access Your World.* Presentation at the Annual Model Systems Conference for Spinal Cord Injury. Pittsburgh, PA, October, 2008.  
*Interdisciplinary Skin Management.* Chicago Abilities Exposition. Chicago, IL, June, 2008.

### SCIENTIFIC PLATFORM AND POSTER PRESENTATIONS

- Holleran CL**, Fogo J, Combs-Miller S, Hornby TG. Community mobility method selection in individuals with chronic motor incomplete spinal cord injury: A qualitative analysis. Poster presentation at the Combined Sections Meeting, American Physical Therapy Association, 2016.
- Moore JL, **Holleran CL**, Ellison J, Hansen P, Carpenter J, Gruber C, Sliwa J. Selection and pilot of a core assessment battery for inpatient rehabilitation. Platform presentation at the Combined Sections Meeting of the American Physical Therapy Association, 2016.
- Holleran CL**, Hennessy P, Leddy A, Connolly M, Camardo J, Woodward J, Hornby TG. Variable Intensive Walking after Stroke (VIEWS Trial). Poster presentation at the Combined Sections Meeting of the American Physical Therapy Association, February 2015.
- Leech KA, Kinnaird CR, **Holleran CL**, Kahn J, and Hornby TG. Modulation of gait performance with progressive increases in exercise intensity and after repeated exposure to high-intensity locomotor exercise in individuals with incomplete spinal cord injury. Poster presentation at the Combined Sections Meeting of the American Physical Therapy Association, February 2015.
- Leech KA, Kinnaird CR, **Holleran CL**, Kahn J, Hornby TG. Immediate and sustained effects of high-intensity locomotor practice on gait performance in individuals with incomplete spinal cord injury. Poster presentation at the Society for Neuroscience Meeting, November, 2014.
- Hennessy PW, Leddy AL, Leech K, **Holleran CL**, Connolly M, Straube D, Roth E, Hornby TG. Intensive Stepping Practice Delivered Post-Stroke in the Inpatient Rehabilitation Setting. Poster presentation at the Combined Sections Meeting of the American Physical Therapy Association, February 2014.
- Hornby TG, Kinnaird C, **Holleran CL**, Leddy A. Improvements in Locomotor Kinematics and Kinetics in Individuals Post-stroke Following High-Intensity Stepping Training in Variable Contexts. Platform presentation at the Combined Sections Meeting of the American Physical Therapy Association, February 2014.
- Leddy AL, Leech KA, Matsubara J, Pasquinell K, **Holleran CL**, Hornby TG. Changes in cardiopulmonary efficiency and gait economy following 8-weeks of high intensity locomotor speed and skill training in individuals post-stroke. Poster presentation at the Combined Sections Meeting of the American Physical Therapy Association, January 2013.
- Holleran CL**, Kinnaird C, Straube D, Leddy AL, Hornby TG. High intensity locomotor speed and skill training in an enriched environment. Platform Presentation at the Combined Sections Meeting of the American Physical Therapy Association, January, 2013.
- Klonowski M, Williams N, Pelo R, **Holleran CL**, Leddy A, Hornby TG. Intensive Goal-Directed Treatments in Enriched Environments Augments Patient Outcomes. Poster presentation at the Illinois Physical Therapy Association Annual Conference, October, 2012.
- Straube D, Hornby TG, Kinnaird C, **Holleran CL**, Echaz A, Wagner E, Rodriguez K, Narducci E. Intensive locomotor training and changes in non-locomotor activity in two individuals post-stroke. Platform presentation at the Combined Sections Meeting of the American Physical Therapy Association, February 2011.

### MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS

American Physical Therapy Association Neurology Section Member	2006-present
American Physical Therapy Association Member	2004-present

### PROFESSIONAL SERVICE

Ad-Hoc Reviewer, Journal of Neurologic Physical Therapy	2015
Co-Director, Neurologic Physical Therapy Residency Program Northwestern University and Rehabilitation Institute of Chicago	2015-2016
Item Writer for the Neurologic Certified Specialists Examination American Physical Therapy Association, Specialist Academy of Content Experts	2009-2014
Practice Excellence Committee Co-Chair Illinois Physical Therapy Association	2012-2013
Battery for Rehabilitation Assessments and Interventions (BRAIN) Leader Rehabilitation Institute of Chicago	2015-2016
Clinical Instructor	2008-2011

Rehabilitation Institute of Chicago Battery of Rehabilitation Assessments and Interventions (BRAIN) Specialist Rehabilitation Institute of Chicago	2009-2011
Clinical Instructor University of Pittsburgh Medical Center	2005-2006

**HONORS AND AWARDS**

<i>Chattanooga Research Award for Best Clinical Research Article Published in Physical Therapy</i> American Physical Therapy Association	2015
<i>Sarah Baskin Research Excellence Award for Clinician Researcher</i> Rehabilitation Institute of Chicago	2015
<i>Brown Fellowship Award</i> , Rehabilitation Institute of Chicago	2014
<i>Henry Betts Award for Innovation</i> , Rehabilitation Institute of Chicago	2011
<i>Magnuson Award Finalist</i> , Rehabilitation Institute of Chicago	2009
<i>Donnelly Family Disability Scholar</i> , Donnelly Family Disability Ethics Program Rehabilitation Institute of Chicago	2008-2009