

Education

- 2014-Present The Ohio State University
Doctor of Philosophy (Ph.D.) in Health and Rehabilitation Sciences
- 2012-2014 The Ohio State University
Master of Occupational Therapy (M.O.T.)
- 2006-2010 The Ohio State University
Bachelor of Science (B.S.), Bachelor of Arts (B.A.)

Licensures/Certifications:

- 2015- Present Licensed and Registered Occupational Therapist, State of Ohio (LIC #008876)
March 2015 Advanced Repetitive Transcranial Magnetic Stimulation, Course at National Center for Neuromodulation in Rehabilitation, Medical University of South Carolina

Work Experience

- 2014-Present School of Health and Rehabilitation Sciences, *Graduate Research Associate*
Better Rehabilitation and Assessment for Improved Neurorecovery (B.R.A.I.N.) Lab
The Ohio State University Wexner Medical Center: Columbus, OH
Advisor: Stephen Page, Ph.D., OTR/L, FAHA, FACRM, FAOTA

A Phase 2a, Randomized, Double-Blind, Placebo-Controlled 21Day Treatment Study, Including an fMRI Sub-Study, to Evaluate the Effect of HT-3951 on Upper Extremity Motor Function Following Ischemic Stroke

- Developed and wrote rehabilitation protocol and manual
- Developed and wrote source documents for therapy documentation
- Trained occupational and physical therapists at investigator meeting on protocol for outcome measure administration
- Traveled to sites across country to train occupational and physical therapists on primary outcome measure administration and study protocol
- Communicated with CRO to develop testing administration kits to be sent to all study sites

Transcranial direct current stimulation (tDCS) in moderately impaired stroke

- Attending standardization/training sessions for transcranial direct current stimulation (tDCS)
- Recruiting, screening and consenting tDCS study participants
- Administering 2 mA tDCS for 20 minutes to stroke study participants, including using standardized measurements to determine location of the upper extremity representation on primary motor cortex
- Administering outcome measures to study participants
- Training students on study protocol and stimulation procedure/parameters for tDCS
- Training students on all study outcome measures

- Writing a study protocol to investigate effects of tDCS and occupational therapy on upper extremity motor function

NICHE (Navigated inhibitory rTMS to contralesional hemisphere) Trial:

- Attending formal Nexstim certification/training to administer transcranial magnetic stimulation
- Participating in Site Initiation Visit to ensure compliance with NICHE (Navigated inhibitory rTMS to contralesional hemisphere) Trial protocol
- Attending formal Nexstim certification to administer occupational therapy treatment
- Performing 1 Hz, 900 pulse rTMS on patients as part of NICHE Trial
- Performing the loading of the MRI, setting of MRI landmarks, placing of EMG electrodes, mapping the hand area, and finding the appropriate motor threshold before beginning stimulation
- Recording and summarizing patient data in a timely manner including adverse events
- Administering and documenting occupational therapy treatment to chronic stroke patients as a Certified Treating Therapist in the NICHE Trial

Myomo Robotic Brace and occupational therapy on UE function in chronic stroke

- Administering and documenting occupational therapy treatments in the clinic and via FaceTime, using the Myomo robotic brace 3 times a week for 8 weeks
- Training family and caregivers on donning/doffing robotic brace, device operation, home exercise programs and device troubleshooting
- Training students on all aspects of device operation, donning/doffing, appropriate treatment activities

Immediate and long term outcomes in individuals with stroke and their family caregivers

- Training new students on study procedures including outcome measure testing, study protocol, patient interaction, consenting and HIPAA
- Identifying potential participants in EMR system, providing this information to students so that patients can be consented and enrolled

Mental Practice on affected UE outcomes in chronic stroke

- Undergoing training on study outcome measures
- Administering outcome measures to study participants at all four time points
- Communicating with participants and caregivers regarding outcome measure performance as it relates to protocol adherence

Other relevant duties and experiences

- Communicating with Jali Medical representatives to arrange pricing and information for the purchase of a transcranial magnetic stimulation (TMS) machine
- Writing a shared equipment grant for the purchase of a TMS machine for the School of Health and Rehabilitation Sciences

2012-2014 School of Health and Rehabilitation Sciences
Better Rehabilitation and Assessment for Improved Neurorecovery (B.R.A.I.N.) Lab
The Ohio State University Wexner Medical Center: Columbus, OH
Research Assistant

Myomo Robotic Brace and occupational therapy on UE function in chronic stroke

- Administering treatments to stroke survivors using Myomo robotic brace 3 days per week for duration of 8 week protocol
- Training students on treatment planning, Myomo robotic brace use and documentation according to study protocol
- Teleconferencing with Myomo representatives to troubleshoot issues with the device
- Entering study data into database for analysis

Immediate and long term outcomes in individuals with stroke and their family caregivers

- Recruiting, consenting, administering outcome measures
- Conducting in person and telephone follow-up interviews with study participants at admission, discharge, 1,3,6,9 and 12 months post-discharge from inpatient rehabilitation
- Developing and entering data into an excel research database and collaborating during conversion to RedCap database
- Creating and distributing recruitment documents at local inpatient rehabilitation facility
- Training new students on consenting, recruiting and outcome measure administration for epidemiology study

Other relevant duties and experiences

- Participating in development of iPhone app for outcome measure administration
- Testing virtual reality technology for use in treatment of physical and cognitive deficits post-stroke
- Volunteering at hands-on national conference for stroke rehabilitation (I-TREAT)

Clinical Experience

August 2014-November 2014	School of Health and Rehabilitation Sciences B.R.A.I.N. Lab, Department of Occupational Therapy The Ohio State University Wexner Medical Center: Columbus, OH <i>Level II Fieldwork Student</i>
August 2014-November 2014	Martha Morehouse Medical Plaza The Ohio State University Wexner Medical Center: Columbus, OH <i>Level II Fieldwork Student, Outpatient Brain Injury Team</i>
May 2014-August 2014	TIRR Memorial Hermann Hospital Texas Medical Center: Houston, TX <i>Level II Fieldwork Student, Brain Injury Team</i>

January 2014-March 2014	Childhood League Center Columbus, OH <i>Level I School-Based Pediatric Fieldwork Student, Early Intervention</i>
December 2013	Dodd Hall Inpatient Rehabilitation The Ohio State University Wexner Medical Center: Columbus, OH <i>Level I Physical Dysfunction Fieldwork Student, Stroke team</i>
May 2013	Kettering Behavioral Medical Center: Kettering, OH <i>Level I Mental Health Fieldwork Student</i>

Teaching Experience

Department of Occupational Therapy The Ohio State University Wexner Medical Center: Columbus, OH <i>Lecturer in Neuroanatomy (OCCTHER 6150)</i>	2013-Present
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- Lecture topics included: The Motor System, Cranial Nerves, Brainstem, Somatosensory System, Action Potential, transcranial Direct Current Stimulation (tDCS), Basal Ganglia
- Writing exam questions and study guides
- Creating the course syllabus
- Conducting review sessions
- Grading exams, assignments and inputting grades

Peer-Reviewed Publications

1. Peters, H.T., Pisegna, J., Faieta, J., Page, S.J. (In press). Functional Brain Stimulation™ in A Moderately Impaired, Chronic Stroke Survivor: A Case Report. *American Journal of Occupational Therapy*, 71(3).
2. Peters HT, Page SJ, Persch A. (In press). Giving Them a Hand: Wearing a Myoelectric Elbow-Wrist-Hand Orthosis Reduces Upper Extremity Impairment in Chronic Stroke. *Archives of Physical Medicine and Rehabilitation*.
3. Peters HT, Dunning K, Belagaje S, Kissela B, Ying J, Laine J, Page S. (In press). Navigated Transcranial Magnetic Stimulation: A Biologically-Based Assay of Lower Extremity Impairment and Gait Velocity? *Neural Plasticity*.
4. Peters HT, Edwards D, Wortmann-Jutt S, Page SJ. (2016). Moving Forward By Stimulating the Brain: Transcranial Direct Current Stimulation in Post-Stroke Hemiparesis. *Frontiers in Human Neuroscience*, 9(10):394.
5. Peters HT, Richards L, Basobas B, Faieta J, Page S. (2016). Changing Their Minds: Enhancing Post-Stroke Occupational Performance Using Transcranial Direct Current Stimulation. *Journal of Motor Behavior*. 1-12.
6. Peters HT, White SE, Page SJ. (2015). The National Institutes of Health Stroke Scale Lacks Validity in Chronic Hemiparetic Stroke. *Journal of Stroke and Cerebrovascular Diseases*. Advanced Online

Publication. doi: 10.1016/j.jstrokecerebrovasdis.2015.05.011

7. Peters, HT, Page, SJ. (2015). Integrating Mental Practice With Task Specific Training and Behavioral Supports In Post Stroke Rehabilitation: Evidence, Components and Augmentative Opportunities. *Physical Medicine and Rehabilitation Clinics of North America*.
8. Page SJ, Peters HT. (2014). Mental Practice: Applying Motor P.R.A.C.T.I.C.E. and Neuroplasticity Principles to Increase Upper Extremity Function. *Stroke*, 45, 3454-3460.

Editor-reviewed publications

1. Peters HT, Page SJ. (2016). Task-Oriented Rehabilitation Program for Stroke. *JAMA*. 316(1): 101-102.
2. Dunaway S, Page SJ, Peters HT. (In press). Myoelectric Bracing: “Arm”-ing Patients With The Ability To Perform Valued Activities. *OT Practice*.
3. Mack ER, Peters HT, Page SJ. (2014). Pseudobulbar Affect. *Archives of Physical Medicine and Rehabilitation*, 95(8), 1599-600.

Published abstracts

1. Navigated Transcranial Magnetic Stimulation: A Biologically-Based Assay of Lower Extremity Impairment and Gait Velocity? H Peters, K Dunning, S Belagaje, B Kissela, J Ying, J Laine, SJ Page. *Archives of Physical Medicine and Rehabilitation* 97 (10), e113. 2016
2. Post-Stroke Reductions in Impairment and Functional Limitation Using a Telerehabilitation-Based Upper Extremity Protocol. J Faieta, S Page, H Tanksley. *Archives of Physical Medicine and Rehabilitation* 97 (10), e120. 2016
3. Functional Brain Stimulation™ : Stimulating Upper Extremity Recovery in Moderately Impaired, Chronic Stroke. H Peters, J Pisegna, J Faieta, SJ Page. *Archives of Physical Medicine and Rehabilitation* 97 (10), e63 2016
4. Portable, EMG-Triggered, Myoelectric Bracing: Restoring Arm Use And Participation in Stroke. C Griffin, J Faieta, A Persch, H Peters, S Page. *Archives of Physical Medicine and Rehabilitation* 97 (10), e137-e138 2016
5. Peters HT, White S, Page SJ. (2015). The NIH Stroke Scale Lacks Validity in Chronic Hemiparetic Stroke. *Archives of Physical Medicine and Rehabilitation*, 96(10), e35.
6. Peters HT, Hade EM, Pang J. (In press). Retention of the Spacing Effect With Mental Practice in Hemiparetic Stroke. *American Journal of Occupational Therapy*.
7. Peters HT, Hade EM, Pang J. (In press). Post-Stroke Reductions in Impairment and Functional Limitation Using a Facetime-Based Upper Extremity Protocol. *American Journal of Occupational Therapy*.
8. Peters HT, Hade EM, Pang J. (In press). Portable, EMG-Triggered, Myoelectric Bracing: Restoring Arm Use and Participation in Stroke. *American Journal of Occupational Therapy*.
9. Peters HT, White S, Page SJ. (In press) The NIH Stroke Scale Lacks Validity in Chronic Hemiparetic Stroke. *American Journal of Occupational Therapy*.

Presentations

1. Peters HT, Pisegna J, Faieta J, Page SJ. Functional Brain Stimulation™: Stimulating Upper Extremity Recovery in Moderately Impaired, Chronic Stroke. Poster to be presented at annual meeting of American Congress of Rehabilitative Medicine, Chicago, IL; October 2016.
2. Page SJ, Faieta JM, Peters HT. FPost-Stroke Reductions in Impairment and Functional Limitation Using a Telerehabilitation-Based Upper Extremity Protocol. Poster to be presented at annual meeting of American Congress of Rehabilitative Medicine, Chicago, IL; October 2016.
3. Neuroplasticity: Leveraging Principles of Plasticity to Optimize Neurorehabilitation. Pre-conference instructional course to be presented at Annual American Congress of Rehabilitative Medicine Annual Conference, Chicago, IL; November 2016.
4. Peters HT, Bowden M, Bockbrader M, Page SJ. Non-Invasive Brain Stimulation (NIBS) in Stroke Motor Rehabilitation. Symposium to be presented at Annual American Congress of Rehabilitative Medicine Annual Conference, Chicago, IL; November 2016.
5. Peters HT, Dunning K, Belagaje S, Kissela B, Ying J, Laine J, Page S. Transcranial Magnetic Stimulation: A Biologically-Based Assay of Lower Extremity Impairment and Gait Velocity? To be presented at Annual Scientific Summit Conference, Pittsburg, PA; May, 2016.
6. Peters HT, Hade EM, Pang J, Page SJ. Retention of the Spacing Effect With Mental Practice in Hemiparetic Stroke. Poster presented at annual meeting of the American Occupational Therapy Association, Chicago, IL; April, 2016.
7. Peters HT, White S, Page SJ. The NIH Stroke Scale Lacks Validity in Chronic Hemiparetic Stroke. Platform presentation at annual meeting of the American Occupational Therapy Association, Chicago, IL; April, 2016.
8. Griffin C, Peters H, Page SJ. Portable, EMG-Triggered, Myoelectric Bracing: Restoring Arm Use and Participation in Stroke. Poster presented at annual meeting of the American Occupational Therapy Association, Chicago, IL; April, 2016.
9. Faieta J, Peters H, Page SJ. Post-Stroke Reductions in Impairment and Functional Limitation Using a Facetime-Based Upper Extremity Protocol. Poster presented at annual meeting of the American Occupational Therapy Association, Chicago, IL; April, 2016.
10. Bockbrader M, Worthen-Chaudari L, Peters H, Page S. Noninvasive brain stimulation for imaging and function in stroke. American Congress of Rehabilitative Medicine Annual Conference, Dallas, TX; October, 2015
11. Page SJ, Peters HT. Task Specific Training in Neurorehabilitation. Invited symposium at the University of Dayton Department of Physical Therapy. Dayton, OH; October 2015.
12. Peters HT, Griffin CE, Faieta J, Basobas B, Page SJ. Transcranial Direct Current Stimulation (tDCS): Enhancing Occupational Performance Post-Stroke. The Ohio Occupational Therapy Association 2015 Conference, Columbus, OH. September 2015.
13. Peters HT, Basobas BM, Page SJ. Enhancing upper extremity function through transcranial direct current stimulation. The Summit of Scholars 2015 Conference, Los Angeles, CA, May 2015.
14. Page SJ, Griffin C, Peters H, Blazak B. A User's Guide to Non-Invasive Brain Stimulation in the Clinic: Enhancing Measurement and Occupational Outcomes Post-Stroke. The Ohio Occupational Therapy Association 2014 Conference, Mason, OH. October 2014.

15. Cleary D, Capretta C, Peters H. Talking about my Generation: Millennials in Occupational Therapy. The Ohio Occupational Therapy Association 2013 Conference. Columbus, OH, October 2013.
16. Peters HT, White SE, Page SJ. The NIH Stroke Scale Lacks Validity in Chronic Hemiparetic Stroke. Poster to be presented at the American Occupational Therapy Association Conference, Chicago, IL; April, 2016.
17. Peters HT, White S, Page SJ. The NIH Stroke Scale Lacks Validity in Chronic Hemiparetic Stroke. Poster presented at annual, international, meeting of the American Congress of Rehabilitation Medicine, Dallas, TX; October, 2015.
18. Peters HT, White SE, Page SJ. The NIH Stroke Scale Lacks Validity in Chronic Hemiparetic Stroke. Poster presented at the International Neurorehabilitation Symposium, Valencia, Spain; June, 2015.
19. Peters HT, White SE, Page SJ. The NIH Stroke Scale Lacks Validity In Chronic Hemiparetic Stroke. 2015 Annual OSU Medical Center Trainee Research Day, Columbus, OH, April 2015.
20. Peters HT, White SE, Page SJ. The NIH Stroke Scale Lacks Validity In Chronic Hemiparetic Stroke. 2015 Annual Summit of Scholars Conference, Los Angeles, CA, May 2015.

Grants

1/1/2017-1/1/2018

Alumni Grants for Graduate Research and Scholarship

The Ohio State University

Effects of transcranial direct current stimulation combined with usual and customary care on upper extremity outcomes in subacute stroke: a sham-controlled, double blind, randomized clinical trial

Role: PI

9/1/2015 – 08/31/2016

FY15 LSVT Global Small Student Grant Competition for Occupational Therapy Graduate Students

LSVT Global

Functional Brain Stimulation™: tDCS combined with occupational therapy on upper extremity motor outcomes

Role: PI

Awards and Honors

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| 2016 | NBCOT Travel Award (\$500) to Annual Occupational Therapy Scientific Summit, Pittsburg, PA |
| 2015 | First Place, Outstanding Poster Award (Stroke Interdisciplinary Special Interest Group), Annual International Meeting of the American Congress of Rehabilitation Medicine, Dallas, Texas |
| 2015 | First Place, Measurement Networking Group Advancing the Science of Measurement Award, Annual International Meeting of the American Congress of Rehabilitation Medicine, Dallas, Texas |
| 2015 | Recipient, Jane Rector Fellowship |
| 2014 | Recipient, Occupational Therapy Alumni Scholarship |
| 2006 | Recipient, Buckeye Scholarship |

2006-2010 The Ohio State University Dean's List

Community Presentations

1. Page SJ, Peters HT. (2016). Functional Brain Stimulation. Presentation to Wesley Glenn Assisted Living Stroke Support Group.
2. Peters HT. (2016). Neurologic Upper Extremity: Treatment Approaches and Adjunctive Strategies for the Moderately Impaired Upper Extremity. [Webinar, Medbridge].
3. Peters HT. (2016) Neurologic Upper Extremity: Treatment Approaches and Adjunctive Strategies for the Minimally Impaired Upper Extremity. [Webinar, Medbridge].
4. Peters, HT. (2016, April). Noninvasive brain stimulation for the treatment of post-stroke neglect. OccupationalTherapy.com, Retrieved from <http://OccupationalTherapy.com>.
5. Teaching the Fugl-Meyer Assessment and Arm Motor Ability Test. Presentation to Martha Morehouse Outpatient Occupational Therapists, Columbus, OH; 5/26/2014.
6. Ongoing Stroke Research in the B.R.A.I.N. Lab. Presentation to Berger Hospital Stroke Support Group, Circleville, OH; 11/2014.
7. Peters HT, Basobas BM, Page SJ. Neuroplasticity and the Future of Stroke Rehabilitation. The Ohio State University Dodd Hall Inpatient Rehabilitation Physician's meeting, Columbus, OH, August 2015.

Manuscript Reviewing

Manuscript reviewer for *Topics in Stroke Rehabilitation*

Manuscript reviewer for *American Journal of Occupational Therapy*

Ad hoc reviewer for *Occupational Therapy Journal of Research*

Ad hoc reviewer for *Physiotherapy Theory and Practice*

Ad hoc reviewer for *European Journal of Neuroscience*

External Consulting

2015-Present Key Opinion Leader (KOL) for Myomo, Inc.

Professional Service

2015-Present Communications Chair, American Congress of Rehabilitative Medicine (ACRM)
Stroke Interdisciplinary Special Interest Group (ISIG)

Memberships in Professional Organizations

2015-Present Member, American Congress of Rehabilitative Medicine (ACRM)

2012-Present Member, American Occupational Therapy Association (AOTA)

2012-Present Member, Ohio Occupational Therapy Association (OOTA)

Professional Skills

- Proficient in: IHIS; EPIC; Microsoft Word; PowerPoint; Publisher; Excel
- Trained and proficient in the following assessments: the Fugl-Meyer, Action Research Arm Test, Arm Motor Ability Test, modified Visual Imagery Questionnaire, Motor Activity Log, Stroke Impact Scale, Barthel Index, Beck Depression Inventory, Nine-Hole Peg Test, Dynamometry, Box & Block Assessment, Chedoke-McMaster, MVPT, Modified Ashworth Scale, Functional Independence Measure