
Emily S. Grattan, PhD, OTR/L
CURRICULUM VITAE

BIOGRAPHICAL INFORMATION

Business Address: Department of Occupational Therapy
Bridgeside Point I
100 Technology Drive, Suite 380
Pittsburgh, PA 15219

Email Address: esg39@pitt.edu

Telephone: (412) 648-0619

EDUCATION and TRAINING

UNDERGRADUATE

<u>Dates Attended</u>	<u>Name and Location of Institution</u>	<u>Degree Received.</u>	<u>Major Discipline</u>
August 2000- May 2004	Duquesne University Pittsburgh, PA	Bachelor of Science, Cum Laude, 2004	Occupational Therapy
June 2002- August 2002	Boston University, Royal Free Hospital London, England	Internship Abroad Program	Occupational Therapy

GRADUATE

<u>Dates Attended</u>	<u>Name and Location of Institution</u>	<u>Degree Received.</u>	<u>Major Discipline</u>
May 2004- May 2005	Duquesne University Pittsburgh, PA	Master of Science, 2005	Occupational Therapy
May 2010- April 2014	University of Pittsburgh, PA	Doctor of Philosophy, 2014	Rehabilitation Science
January 2015- June 2018	Medical University of South Carolina Charleston, SC	Post-Doctoral Scholar	Post-Doctoral Training

POSITIONS

<u>Years Inclusive</u>	<u>Department, Name and Location of Institution</u>	<u>Rank/Title</u>
September 2005- June 2009	UPMC Southside Hospital, Centers for Rehab Services Pittsburgh, PA	Occupational Therapist
June 2009- December 2009	UPMC Mercy Hospital, Centers for Rehab Services Pittsburgh, PA	Occupational Therapist
December 2009- March 2011	UPMC Mercy Hospital, Centers for Rehab Services Pittsburgh, PA	Casual Occupational Therapist
December 2009- May 2010	University of Pittsburgh, Department of Occupational Therapy, Pittsburgh, PA	Research Assistant
May 2010- August 2014	University of Pittsburgh, Department of Occupational Therapy, Pittsburgh, PA	Research Occupational Therapist
January 2015- June 2018	Medical University of South Carolina, Department of Health Science and Research, Charleston, SC	Post-Doctoral Scholar
June 2017- June 2018	Medical University of South Carolina, Division of Occupational Therapy Charleston, SC	Adjunct Instructor
July 2018- June 2021	Medical University of South Carolina, Division of Occupational Therapy Charleston, SC	Assistant Professor
June 2018- July 2021	Ralph H. Johnson VA Medical Center, Charleston, SC	Research Health Scientist

July 2021-present	University of Pittsburgh, Department of Occupational Therapy, Pittsburgh, PA	Assistant Professor
July 2021-present	Pittsburgh VA Healthcare Center, Pittsburgh, PA	Research Health Scientist

CERTIFICATION and LICENSURE

PROFESSIONAL CERTIFICATION

National Board for Certification in Occupational Therapy #1075979	2005-present
Academy of Certified Brain Injury Specialists #2840	2007-2009

PROFESSIONAL LICENSE

Commonwealth of Pennsylvania Occupational Therapy License #OC009816	2005-present
South Carolina Occupational Therapy License #4441	2015-present

MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES

PROFESSIONAL SOCIETIES

American Occupational Therapy Association	2005-present
---	--------------

SCIENTIFIC SOCIETIES

American Congress of Rehabilitation Medicine Vision Task Force	2011-2014, 2021 2020-present
American Society of Neurorehabilitation	2014-present

HONORS & AWARDS

SCHOLARLY AWARDS

Boston University Director's Award for Internship Portfolio	2002
---	------

RESEARCH AWARDS

Best Rehabilitation Research Award by a Pre-Doctoral Student UPMC Institute for Rehabilitation & Research Day	2010
--	------

American Occupational Therapy Foundation Travel Award Occupational Therapy Research Summit	2016
---	------

American Congress of Rehabilitation Medicine Measurement Interdisciplinary Special Interest Group Early Career Poster Award	2021
--	------

American Congress of Rehabilitation Medicine Measurement Interdisciplinary Special Interest Group Advancing the Science of Measurement Award (co-author)	2021
--	------

MENTORED RESEARCH AWARDS

1 st Place Masters Level Award, Student Research Day, Medical University of South Carolina	2019
---	------

PEER-REVIEWED PUBLICATIONS (in reverse chronological order)

*Mentored Student

1. Mak, J, Kocanaogullari D, Huang X, Kersey J, Shih M, **Grattan E**, Skidmore, E, Wittenberg G, Ostadabbas S, Akcakaya M. Detection of Stroke-Induced Visual Neglect and Target Response Prediction Using Augmented Reality and Electroencephalography. *Transactions on Neural Systems & Rehabilitation Engineering*. 2022; 30: 1840-1850.
2. Juengst S, **Grattan ES**, Wright B, Terhorst L. Rasch analysis of the Behavioral Assessment Screening Tool (BAST) in chronic traumatic brain injury. *Journal of Psychosocial Rehabilitation and Mental Health*. 2021; 8:231-246. doi:10.1007/s40737-021-00218-8.
3. *Hart E, **Grattan ES**, Woodbury ML, Herbert T, Coker-Bolt P, Bonilha H. Pediatric unilateral spatial neglect: A Systematic review. *Journal of Pediatric Rehabilitation Medicine*.14(3): 345-359. doi: 10.3233/PRM-200779.
4. **Grattan, ES**, & Giles, AK. Collaborating with a transitional care unit to provide student hands-on time: a win-win for hospital and academic institution. *Journal of Occupational Therapy Education*. 2020; 5(1), 12. doi: 10.26681/jote.2021.050112.
5. **Grattan ES**, Velozo CA, Skidmore ER, Page SJ, Woodbury ML. Interpreting Action Research Arm Test assessment scores to plan treatment. *OTJR: Occupation, Participation and Health*. 2019; 39(1):64-731-10. doi: 10.1177/1539449218757740.
6. Khalaf A, Kersey K, Eldeeb S, Alankus G, **Grattan ES**, Waterstram L, Skidmore E, Akcakaya, M. EEG-based neglect assessment: A feasibility study. *Journal of Neuroscience Methods*. 2018; 303:169-177. doi:10.1016/j.jneumeth.2018.03.019.
7. Hong I, Kim Y, Sonnenfeld ML, **Grattan E**, Reistetter T.A. Disability measurement for Korean community dwelling adults with stroke: Item level psychometrics of the Korean Longitudinal study of Aging. *Annals of Rehabilitation Medicine*. 2018; 42(2): 336-345. doi: 10.5535/arm.2018.42.2.336.
8. **Grattan ES**, Skidmore ER, Woodbury ML. Examining anosognosia of neglect. *OTJR: Occupation, Participation and Health*. 2018; 38(2): 113-120. doi: 10.1177/1539449217747586.
9. **Grattan ES** & Woodbury ML. Do neglect assessments detect neglect differently? *American Journal of Occupational Therapy*. 2017; 71(3):7103190050p1-7103190050p9. doi: 10.5014/ajot.2017.025015.
10. Skidmore ER, Batters MA, Whyte EM, **Grattan ES**, Shen J, Terhorst L. Guided training relative to direct skill training for individuals with cognitive impairments after stroke: a pilot randomized trial. *Archives of Physical Medicine and Rehabilitation*. 2017; 98(4):673-68. Doi:10.1016/j.apmr.2016.10.004.
11. Woodbury, ML, Anderson K, Finetto C, Fortune A, Dellenbach B, **Grattan E**, Hutchison S. Matching task-difficulty to patient- ability during task practice improves upper extremity motor skill after stroke: a proof-of-concept study. *Archives of Physical Medicine and Rehabilitation*. 2016:97(11):1863-1871. doi: 10.1016/j.apmr.2016.03.022.
12. **Grattan ES**, Lang CE, Birkenmeier RL, Holm MB, Rubinstein E, Van Swearingen J, Skidmore ER. Examining the feasibility, tolerability and preliminary efficacy of repetitive task practice for individuals with unilateral spatial neglect. *American Journal of Occupational Therapy*. 2016: 70(4):7004290020p1-7004290020p8. doi: 10.5014/ajot.2016.019471.
13. Skidmore ER, Dawson DR, Whyte EM, Batters MA, Dew MA, **Grattan ES**, Becker JT, Holm MB. Strategy training may reduce disability in the first 6 months after stroke. *Neurorehabilitation & Neural Repair*. 2014; 28:378-387. doi:10.1177/1545968314562113.
14. Skidmore ER, Dawson DR, Whyte EM, Batters MA, Dew MA, **Grattan ES**, Becker JT, Holm MB. Developing complex interventions: lessons learned from a pilot study examining strategy training in acute rehabilitation. *Clinical Rehabilitation*. 2013; 28:378-387. doi: 10.1177/0269215513502799.
15. Skidmore ER, Becker JT, Whyte EM, Huber LM, Waterstram LF, Ward AA, **Grattan ES**, Holm MB. Cognitive impairments and depressive symptoms did not impede upper extremity recovery in a clinical repetitive task practice program after stroke. *Am J Phys Med Rehabil*. 2012; 91:327-36. doi: 10.1097/PHM.0b013e318246607b.

PEER-REVIEWED PUBLICATIONS UNDER REVIEW

1. Woodbury ML, **Grattan ES**, Li, C. Evaluating the continuum of paretic arm recovery in stroke: Development of a Short Form Assessment of the Fugl Meyer Assessment-Upper Extremity and the Wolf Motor Function Test. *Archives of Physical Medicine & Rehabilitation*.
2. **Grattan ES**, Hart E, Woodbury ML, Nichols M. The impact of post-stroke spatial neglect on activity and participation: A mixed methods study. *OTJR: Occupation, Participation and Health*.
3. Chhatbar P, **Grattan ES**, Hutchison S, Ramakrishnan V, George M, Kautz S, Feng W. Differential montage effect on cortical excitability in ischemic stroke patients by transcranial direct current stimulation at 4mA. *Brain Stimulation*.
4. Gasque H, Morrow C, **Grattan ES**, Woodbury ML. Understanding occupational therapists knowledge and confidence when assessing for unilateral neglect. *American Journal of Occupational Therapy*.

PEER-REVIEWED PUBLISHED ABSTRACTS (in reverse chronological order)

1. Terhorst, L., Wright, B., **Grattan, E.**, Juengst, S. Rasch Analysis of the Behavioral Assessment Screening Tool. *Archives of Physical Medicine & Rehabilitation*. 2021; 102(10): e51.
2. **Grattan ES**, Li, C, Woodbury ML, Development of a short form assessment of upper extremity motor ability for individuals post stroke. *Archives of Physical Medicine & Rehabilitation*. 2021; 102(10): e77-78.
3. **Grattan ES** & Hart ML. How do behavioral and virtual-reality neglect-assessment scores correlate with each other? *American Journal of Occupational Therapy*. 2020;74:7411500027.
4. **Grattan ES**, Dean N, Eberl B, Hooks H, Manning L, Schafer K, McLamb S, Hart E. Living with neglect: A qualitative analysis of stroke survivor perspectives. *American Journal of Occupational Therapy*. 2020;74:7411505115.
5. *Frias A, Chan J, Smith, T, **Grattan ES**. Exploring the use of mobile electroencephalogram (EEG) in driving assessment: A case study. *American Journal of Occupational Therapy*. 2020; 74(Supplement 1):7411505100.
<https://doi.org/10.5014/ajot.2020.74S1-RP102B>
6. **Grattan ES**, Woodbury ML. Neglect may not impact real-world paretic arm use in the chronic stage of stroke recovery. *American Journal of Occupational Therapy*. 2019; 73:7311515348.
7. *Burns G, Hurt A, Young M, Woodbury ML, **Grattan ES**. Are certain neglect assessments better at detecting neglect than others in post-stroke patients? *American Journal of Occupational Therapy*. 2019; 73:7311515271.
8. Hong I, Kim Y, Sonnenfeld M, **Grattan ES**, Reistetter TA. Creating disability measurement using activities of daily living and instrumental activities of daily living item from National Longitudinal Aging study. *American Journal of Occupational Therapy*. 2018; 72: 7211510171
9. **Grattan ES**, Skidmore ER, Woodbury ML. Anosognosia of neglect during performance of daily activities. *American Journal of Occupational Therapy*. 2017; 71:7111500028p1.
10. Skidmore ER, Whyte EM, Dawson DR, Holm MB, **Grattan ES**, Dew MA, Becker JT. Preliminary findings favor meta-cognitive strategy training over attention control in acute stroke rehabilitation. *Arch Phys Med Rehabil*. 2011; 92:1717.
11. Juengst SB, **Grattan ES**, Skidmore ER. Early impaired self-awareness is associated with age and depression in acquired brain injury. *Arch Phys Med Rehabil*. 2011; 92:1698-9.
12. **Grattan ES**, Skidmore ER. Unilateral spatial neglect may not impede upper extremity recovery in individuals with subacute stroke. *Arch Phys Med Rehabil*. 2011; 92:1710.

POSTERS & PRESENTATIONS (in reverse chronological order)

**Mentored Student*

National

1. **Grattan, ES.** Development of patient reported outcome measures. Presented at: Expediting Innovation of Bioelectronic Implants for Vision Restoration Public Workshop Co-Sponsored by FDA & University of Pittsburgh, October 2022.
2. **Grattan, ES.** Clinical Outcomes Assessment for Bioelectronic Implants Panel. Presented at: Expediting Innovation of Bioelectronic Implants for Vision Restoration Public Workshop, Co-Sponsored by FDA & University of Pittsburgh, October 2022.
3. *Hart E, **Grattan ES**, Woodbury ML, Herbert T, Coker-Bolt P, Bonilha H. Pediatric unilateral spatial neglect: A
4. Systematic review. Presented at: American Occupational Therapy Association Child & Youth Specialty Conference,
5. December 2021.
6. Chhatbar P, **Grattan ES**, Hutchison S, Ramakrishnan V, George M, Kautz S, Feng W. Differential montage effect on cortical excitability in ischemic stroke patients by single session of high amperage transcranial direct current stimulation. Presented at: International Brain Stimulation Conference, December 2021.
7. Rizzo JR, Roberts P, Wertheimer J, Perea J, Watters K, Graf M, Ouellette D, Weden K, **Grattan ES**, Hreha K. Visual symptoms and signs screen: Results from a multi-site study. Presented at: American Congress of Rehabilitation Medicine (ACRM) 98th Annual Conference, Virtual, September 2021.
8. Terhorst, L., Wright, B., **Grattan, E.**, & Juengst, S. Rasch Analysis of the Behavioral Assessment Screening Tool. Poster Presented at: American Congress of Rehabilitation Medicine (ACRM) 98th Annual Conference, Virtual, September 2021.
9. **Grattan ES**, Li, C, Woodbury ML, Development of a short form assessment of upper extremity motor ability for individuals post stroke. Poster Presented at: American Congress of Rehabilitation Medicine (ACRM) 98th Annual Conference, Virtual, September 2021.
10. *Hart E, **Grattan E**, Woodbury M, Simpson A. (2021). The Effects of Demographic, Stroke, and Clinical Characteristics on Neglect Severity. Poster Presented at: Occupational Therapy Summit of Scholars. Virtual Conference, June 2021.
11. **Grattan ES**, Hart E, Woodbury ML, Nichols M. Stroke survivor and caregiver perspectives of living with neglect post stroke. Poster Presented at: Occupational Therapy Summit of Scholars. Virtual Conference, June 2021.
12. **Grattan ES** & Hart ML. How do behavioral and virtual-reality neglect-assessment scores correlate with each other? Accepted for Presentation at: American Occupational Therapy Association Annual Conference. Boston, MA, April 2020 (cancelled due to COVID).
13. **Grattan ES**, Dean N, Eberl B, Hooks H, Manning L, Schafer K, McLamb S, Hart E. Living with neglect: A qualitative analysis of stroke survivor perspectives. Accepted for Presentation at: American Occupational Therapy Association Annual Conference. Boston, MA, April 2020 (cancelled due to COVID).
14. *Frias A, Chan J, Smith, T, **Grattan ES**. Exploring the use of mobile electroencephalogram (EEG) in driving assessment: A case study. Accepted for Presentation at: American Occupational Therapy Association Annual Conference. Boston, MA, April 2020 (cancelled due to COVID).
15. Chhatbar, P, DeVries W, **Grattan ES**, Hutchison S, Kautz S, Feng W. Further evidence of safety and toaleability of 4 mA transcranial direct current stimulation (tDCS) in patients with ischemic stroke. Poster Presented at: International Stroke Conference 2020, Los Angeles, CA, February 2020.
16. Chhatbar, P, DeVries W, **Grattan ES**, Hutchison S, Kautz S, Feng W. Differential cortical effect modulated by anodal, cathodal, and bi-hemispheric transcranial direct current stimulation (tDCS) in patients with ischemic stroke. Poster Presented at: International Stroke Conference 2020, Los Angeles, CA, February 2020.
17. **Grattan ES.** Improving measurement and treatment of post-stroke neglect. Presented at: VA VISN-7 Rehabilitation Annual Meeting. Birmingham, AL, November 2019.
18. Giles A & **Grattan ES.** Crossing the border between classroom and clinic: Linking student hands-on time with free patient care. Presented at: International Society for the Scholarship of Teaching and Learning. Atlanta, GA, October 2019.
19. *Hart E, Chaney K, Vandenbulcke K, Ward A, Woodbury ML, **Grattan ES.** How do behavioral and virtual reality neglect assessments correlate with each other? Poster Presented at: Occupational Therapy Summit of Scholars. Charleston, SC, June 2019.
20. **Grattan ES**, Woodbury ML. Neglect may not impact real-world paretic arm use in the chronic stage of stroke recovery. Poster Presented at American Occupational Therapy Association Annual Conference. New Orleans, LA, April 2019.
21. *Burns G, Hurt A, Young M, Woodbury ML, **Grattan ES.** Are certain neglect assessments better at detecting neglect than others in post-stroke patients? Poster Presented at: American Occupational Therapy Association Annual Conference. New Orleans, LA, April 2019.

22. **Grattan ES**, Woodbury ML. Neglect may not impact real-world paretic arm use in the chronic stage of stroke recovery. Poster Presented at Occupational Therapy Summit of Scholars, Kansas City, KS, June, 2018.
23. Akcakaya A, Khalaf, Eldeeb S, Kersey J, Alankus G, **Grattan ES**, Waterstram LW & Skidmore ER. EEG-based neglect assessment. Poster Presented at International Brain-Computer Interface (BCI) Meeting. Pacific Grove, CA, May 2018.
24. Hong I, Kim Y, Sonnenfeld M, **Grattan ES**, Reistetter TA. Creating disability measurement using activities of daily living and instrumental activities of daily living item from National Longitudinal Aging study. Poster presented at American Occupational Therapy Association Conference, Salt Lake City, UT, April 2018.
25. Giles AK, **Grattan ES**. Collaborating with a transitional care unit to provide student hands-on time in long-term acute care: a win-win for hospital and academic institution. Poster Presented at American Occupational Therapy Association, Salt Lake City, UT, April 2018.
26. **Grattan ES**, Woodbury ML. Assessing stroke survivors for neglect. Presented at American Occupational Therapy Association Conference, Salt Lake City, UT, April 2018.
27. **Grattan ES**, Skidmore ER, Woodbury ML. Anosognosia of neglect during performance of daily activities. Poster Presented at: American Occupational Therapy Association Conference, Philadelphia, PA, April 2017.
28. **Grattan ES**, Woodbury ML. Examining the validity of upper extremity Fugl-Meyer Impairment Categories. Presented at: Occupational Therapy Research Summit. Pittsburgh, PA, May 2016.
29. **Grattan ES**, Skidmore ER. Unilateral spatial neglect and upper extremity motor recovery. Presented at: American Occupational Therapy Association Conference, Baltimore, MD, April 2014.
30. **Grattan ES**, Skidmore ER. Applying guiding principles for individuals with unilateral spatial neglect. Presented at: American Occupational Therapy Association Conference, Baltimore, MD, April 2014.
31. Skidmore ER, Whyte EM, Dawson DR, Holm MB, **Grattan ES**, Dew MA, Becker JT. Preliminary findings favor meta-cognitive strategy training over attention control in acute stroke rehabilitation. Presented at: American Congress of Rehabilitation Medicine Conference. Atlanta, GA, October, 2011.
32. Juengst SB, **Grattan ES**, Skidmore ER. Early impaired self-awareness is associated with age and depression in acquired brain injury. Poster Presented at: American Congress of Rehabilitation Medicine Conference. Atlanta, GA, October, 2011.
33. **Grattan ES**, Skidmore ER. Unilateral spatial neglect may not impede upper extremity recovery in individuals with subacute stroke. Poster Presented at: American Congress of Rehabilitation Medicine Conference. Atlanta, GA, October, 2011.

Regional

1. *Hart E, Dean N, Eberl B, Hooks H, Manning L, McLamb S, Schafer K, Nichols M, **Grattan ES**. (2020). Living with neglect post stroke. Poster presented at: Translational Research Day. Charleston, SC, March 2020.
2. *Hart E, **Grattan ES**, Woodbury M, Simpson A. (2020). The effects of demographic, stroke, and clinical characteristics on neglect severity. Presented at: MUSC Student Research Day. Charleston, SC, November 2020.
3. *Dean N, Eberl B, Hooks H, Manning L, McLamb S, Schafer K, Hart E, Nichols M, **Grattan ES**. Living with neglect: A qualitative analysis of stroke survivor perspectives. Presented at: South Carolina Occupational Therapy Association, Columbia, SC, February 2020.
4. *Dean N, Eberl B, Hooks H, Manning L, McLamb S, Schafer K, Hart E, Nichols M, **Grattan ES**. Living with neglect: A qualitative analysis of stroke survivor perspectives. Poster presented at: Medical University of South Carolina Research Day. Charleston, SC, November 2019.
5. *Burns G, Hurt A, Young M, Woodbury ML, **Grattan ES**. Are certain neglect assessments better at detecting neglect than others in post-stroke patients? Poster presented at: South Carolina Occupational Therapy Association Annual Conference. Charleston, SC, February 2019.
6. **Grattan ES**. Designing the rehabilitation program. Presented at: Medical University of South Carolina National Center for Neuromodulation for Rehabilitation Research Level I Workshop. Charleston, SC, November 2018.
7. *Hart E, Chaney K, Vandenbulcke K, Ward A, Woodbury ML, **Grattan ES**. How do behavioral and virtual reality neglect assessments correlate with each other? Poster presented at: Medical University of South Carolina Research Day. Charleston, SC, November 2018.
8. *Burns G, Hurt A, Young M, Woodbury ML, **Grattan ES**. Are certain neglect assessments better at detecting neglect than others in post-stroke patients? Poster presented at: Medical University of South Carolina Research Day. Charleston, SC, November 2018.
9. **Grattan ES**. Brain injury rehabilitation research. Presented at: Roper Rehabilitation Hospital and Medical University of South Carolina Rehabilitation Grand Rounds. Charleston, SC, August 2018.
10. **Grattan ES**, Skidmore ER, Woodbury ML. Anosognosia of neglect during performance of daily activities. Poster Presented at: Medical University of South Carolina Center of Biomedical Research Excellence in Stroke Recovery

Annual Meeting. Charleston, SC, January 2018.

11. *Housholder K, Bertolino N, Lynch R, Nicks M, Woodbury ML, Kraft S, **Grattan ES**. The Relationship between Neglect and Real-World Paretic Arm Use in Stroke Survivors. Poster presented at: Medical University of South Carolina Research Day. Charleston, SC, November 2017.
12. **Grattan, ES**. Examining factors that contribute to paretic upper extremity use during stroke recovery. Poster Presented at: Medical University of South Carolina Center of Biomedical Research Excellence in Stroke Recovery Annual Meeting. Charleston, SC, January 2017.
13. *Colcough, K, Borden E, Williams T, Woodbury ML, **Grattan ES**. A comparison of patterns of real-world paretic arm use among people with and without unilateral neglect after stroke. Poster presented at: Medical University of South Carolina Research Day. Charleston, SC, November 2016.
14. **Grattan ES**, Lang C, Birkenmeier R, Holm MB, Rubinstein E, Van Swearingen J, Woodbury M, Skidmore ER. Repetitive task practice for individuals with neglect post stroke. Poster Presented at: Medical University of South Carolina Center of Biomedical Research Excellence in Stroke Recovery Annual Meeting. Charleston, SC, January 2016
15. *Bliven M, O'Connor K, Perry J, Woodbury ML, **Grattan ES**. Does upper extremity motor function relate to participation? Poster Presented at: Medical University of South Carolina Research Day. Charleston, SC, October 2015.
16. **Grattan ES**, Dellenbach B, Anderson K, Hutchison D, Finetto C, Fortune A, Hutchison S, Hayes A, Dukes P, Jett K, Woodbury ML. Examining the Feasibility of an In-Home Stroke Rehabilitation Computer Game Designed to Promote Repetitive Arm Practice for Individuals with Chronic Hemiparesis. Poster Presented at: Medical University of South Carolina Research Day. Charleston, SC, October 2015.
17. **Grattan ES**, Lang C, Birkenmeier R, Holm MB, Rubinstein E, Van Swearingen J, Skidmore ER. Examining the effects of a repetitive task practice program among individuals with unilateral spatial neglect. Poster Presented at UPMC Rehabilitation Institute Research Day, Pittsburgh, PA, June 2014.
18. **Grattan ES**, Skidmore ER. Unilateral spatial neglect and upper extremity motor recovery. Poster Presented at: Pennsylvania Occupational Therapy Association Conference, Pittsburgh, PA, November 2013.
19. **Grattan ES**, Skidmore ER. Unilateral spatial neglect and upper extremity motor recovery. Poster Presented at: University of Pittsburgh Rehabilitation Institute Research Day. Pittsburgh, PA, June 2013.
20. Juengst SB, **Grattan ES**, Skidmore ER. Early impaired self-awareness is associated with age and depression in acquired brain injury. Poster presented at: University of Pittsburgh Rehabilitation Institute Research Day. Pittsburgh, PA, May, 2012.
21. **Grattan ES**, Skidmore ER. A comparison of arm and hand recovery among individuals with and without unilateral spatial neglect post stroke. Poster Presented at: University of Pittsburgh Rehabilitation Institute Research Day. Pittsburgh, PA, May 2012.
22. **Grattan ES**, Skidmore ER. Unilateral Spatial Neglect After Stroke: Does neglect impede upper extremity recovery in subacute and chronic stroke? Presented at: University of Pittsburgh Institute for Rehabilitation and Research. Pittsburgh, PA, June 2010.

INVITED LECTURES

1. **Grattan, ES**. Development of the Capstone experience and mentored training plan. Presented at: Medical University of South Carolina Division of Occupational Therapy for Scholarship III Course. February 2021. (60 minutes).
2. **Grattan, ES**. Post-Stroke Neglect. Presented at: Medical University of South Carolina Division of Occupational Therapy for Stroke Bootcamp Course. January 2021. (120 minutes).
3. **Grattan, ES**. Neglect. Presented at: East Carolina University Department of Occupational Therapy for Neurologic Foundations of Occupational Therapy Course. October 2020. (45 minutes).
4. **Grattan, ES**. Neurorehabilitation in Occupational Therapy. Presented at: Medical University of South Carolina, College of Medicine. Charleston, SC, November 2020. (45 minutes).
5. **Grattan, ES**. Improving measurement and treatment of post-stroke neglect. Presented at: VA VISN-7 Rehabilitation Annual Meeting. Birmingham, AL, November 2019. (30 minutes).
6. **Grattan, ES**. Neurorehabilitation in Occupational Therapy. Presented at: Medical University of South Carolina, College of Medicine. Charleston, SC, November 2019. (45 minutes).
7. **Grattan, ES**. Assessment of Neglect. Presented at: Stroke Rehabilitation Outcomes Course, Medical University of South Carolina, Charleston, SC, January 2019. (45 minutes).
8. **Grattan ES**. Designing the rehabilitation program. Presented at: Medical University of South Carolina National Center for Neuromodulation for Rehabilitation Research Level I Workshop. Charleston, SC, November 2018. (60 minutes).
9. **Grattan, ES**. Neglect post stroke. Presented at: Duquesne University, Department of Speech-Language Pathology. Pittsburgh, PA, February 2014. (120 minutes).
10. **Grattan, ES**. My path to becoming an occupational therapy scientist. Presented at: Duquesne University, Department of Occupational Therapy. Pittsburgh, PA, November 2013. (60 minutes).

11. **Grattan, ES.** New approaches to stroke rehabilitation. Presented at: 8th Annual Conference: Discover How to Excel in Acute Stroke Management. Pittsburgh, PA, April 2013. (60 minutes).
12. **Grattan, ES.** Unilateral spatial neglect. Presented at: Duquesne University, Department of Speech-Language Pathology. a. Pittsburgh, PA, February 2013. (90 minutes).
13. **Grattan, ES.** Unilateral spatial neglect. Presented at: Duquesne University, Department of Speech-Language Pathology. Pittsburgh, PA, March 2012. (90 minutes).
14. **Grattan, ES.** My path to becoming an occupational therapy scientist. Presented at: Duquesne University, Department of Occupational Therapy. Pittsburgh, PA, November 2010. (30 minutes).

GRANT FUNDING

CURRENT GRANT SUPPORT

<u>Grant Number</u>	<u>Grant Title</u>	<u>Project Role</u>	<u>Years Inclusive</u>	<u>Source</u>
1915083	An augmented reality based brain computer interface for neglect detection, assessment, and rehabilitation (PI: Akcakaya)	Co-PI	9/2019 to 8/2023	NSF SCH Program
1 IK2RX002420	Improving measurement and treatment of post-stroke neglect	PI	6/2018 to 5/2023	VA
1 R21 OH012204-01A1	Low Vision and Performance of Work-Related Manual Tasks Requiring Dexterity	Co-I	9/2022 to 8/2024	NIOSH

COMPLETED GRANT SUPPORT

<u>Grant Number</u>	<u>Grant Title</u>	<u>Project Role</u>	<u>Years Inclusive</u>	<u>Source</u>
UL1TR001450 South Carolina Clinical & Translational Institute Voucher Program	Examining measurement of behavioral neglect post stroke	PI	08/2019 to 08/2020	South Carolina Clinical and Translational Research Institute
Seed Grant	Unilateral spatial neglect and function: A collaborative project to link stroke research, education and clinical practice	Co-PI	7/2016-8/2017	Medical University of South Carolina Department of Health Professions
Pilot Grant P2CHD086844	Examining the effects of transcranial direct current stimulation and task-specific practice on cortical modulation among individuals with unilateral spatial	PI	7/2016-12/2017	Medical University of South Carolina National Center of Neuromodulation for Rehabilitation

neglect post stroke

Industry Grant	Transcranial direct current stimulation + targeted post-stroke arm therapy (PI: Woodbury)	Post-Doctoral Scholar	1/2015 to 12/2017	Halo Neuroscience Corporation
R01 HD074693	Closing the gap in stroke rehabilitation: early intervention for stroke disability (PI: Skidmore)	Research Occupational Therapist	7/2013 to 6/2018 Grattan (7/2013 to 8/2014)	NICHHD
UL1RR023153, UL1TR000005	Repetitive task practice to treat neglect after stroke: a pilot feasibility study (PIs: Skidmore, Lang)	Co-I	6/2012 to 5/2013	University of Pittsburgh Clinical and Translational Science Institute, Washington University institute of Clinical and Translational Sciences
Dissertation Development Fund	Repetitive task practice for neglect after stroke	PI	4/2012 to 3/2013	University of Pittsburgh, School of Health and Rehabilitation Sciences
B7143R	Enhancement of motor cortex activity in persons with spinal cord injury (PI: Weber)	Research Occupational Therapist	4/2011 to 3/2014	Department of Veteran's Affairs
Competitive Medical Research Fund	Cognitive strategy training (PI: Skidmore)	Research Occupational Therapist	07/2010 to 06/2012	University of Pittsburgh Office of Research
Pilot Grant	Strategy training to improve stroke rehabilitation outcomes (PI: Skidmore)	Research Occupational Therapist	04/2010 to 03/2013	UPMC Rehabilitation
Central Research Development Fund	Examining cognitive and affective impairment influences on motor recovery after stroke (PI: Skidmore)	Research Assistant	7/07 to 6/10 Grattan (12/2009-6/2010)	University of Pittsburgh Office of Provost (CRDF)
K12 HD05593	Examining neurobehavior and ADL disability after stroke (PI: Skidmore)	Research Assistant	12/2008 to 12/2012 Grattan (12/2009 to 12/2012)	NCMRR, NINDS

Industry Grant	Safety and effectiveness of cortical stimulation in the treatment of stroke patients with upper extremity hemiparesis (EVEREST) (PI: Levy)	Research Occupational Therapist	9/2004 to 3/2008	Northstar Neuroscience
----------------	---	---------------------------------	------------------	------------------------

RESEARCH RELATED SERVICE

Grant Review Committee

1. National Center for Neuromodulation for Rehabilitation Pilot Project Grants, 2018-present
2. University of Pittsburgh Clinical and Translational Science Institute Grants, 2022
3. NIH Early Career Reviewer, Musculoskeletal Rehabilitation Science Study Section, 2022

Scientific Meeting Committees

1. Reviewer, Research Abstracts, Rehabilitation Institute Research Day, University of Pittsburgh, 2022
2. Reviewer, Research Abstracts, American Occupational Therapy Association Conference, 2018-2021
3. Reviewer, Presentations and Posters, Occupational Therapy Summit of Scholars, 2019-2021
4. Reviewer, Summer Institute for Future Scientists, American Occupational Therapy Association & American Occupational Therapy Foundation, 2018-2021.
5. Conference Organizing Member, Summer Institute for Future Scientists & Occupational Therapy Summit of Scholars, 2018.
6. Judge, Student Research Day, Medical University of South Carolina, 2020.

Journal Refereeing-Editorial Review Board

1. *OTJR: Occupation, Participation, and Health*, 2019-present

Journal Refereeing-Ad hoc Reviewer

1. Reviewer, *Journal of Rehabilitation Research and Development*, 2014-2015.
2. Reviewer, *Archives of Physical Medicine and Rehabilitation*, 2014-present.
3. Reviewer, *OTJR: Occupation, Participation, and Health*, 2014-present
4. Reviewer, *American Journal of Occupational Therapy*, 2014-present
5. Reviewer, *Canadian Journal of Occupational Therapy*, 2017-present
6. Reviewer, *Journal of NeuroEngineering & Rehabilitation*, 2018-present
7. Reviewer, *Topics in Stroke Rehabilitation*, 2018-present.
8. Reviewer, *Occupational Therapy in Health Care*, 2019-present.
9. Reviewer, *Journal of Neurologic Physical Therapy*, 2022-present.

Research Committee

1. Voting Member on the Subcommittee on Research Safety and Security, Ralph H. Johnson, VA Medical Center. 2018-2021.

Advisory Board

1. Patient-Centered Outcomes Research Institute (PCORI) Partnership for Physical Rehabilitation Post Stroke Board Member, 2015-2018.
2. Data safety monitoring board member, Realistic measurements of tDCS-modulated activity and electric fields in the human brain in vivo study. PI: Pratik Chhatbar, 2017-2018.

TEACHING

COURSES

Master of Science in Occupational Therapy Program, Entry Level – Primary Instructor

1. **Course Title: *Research/Scholarship Experience in Occupational Therapy I(OT-561)***
Role: Post-Doctoral Scholar/Mentor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Summer 2015, 3 Master of Science in Occupational Therapy Students *Contact*
Hours: 1 credit, 20 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
2. **Course Title: *Research/Scholarship Experience in Occupational Therapy II(OT-562)***
Role: Post-Doctoral Scholar/Mentor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina
Year, Number of Students: Fall 2015, 3 Master of Science in Occupational Therapy Students *Contact*
Hours: 2 credits, 32 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
3. **Course Title: *Research/Scholarship Experience in Occupational Therapy I(OT-561)***
Role: Post-Doctoral Scholar/Mentor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Summer 2016, 3 Master of Science in Occupational Therapy Students *Contact*
Hours: 1 credit, 20 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
4. **Course Title: *Research/Scholarship Experience in Occupational Therapy II(OT-562)***
Role: Post-Doctoral Scholar/Mentor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina
Year, Number of Students: Fall 2016, 3 Master of Science in Occupational Therapy Students *Contact*
Hours: 2 credits, 32 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
5. **Course Title: *Research/Scholarship Experience in Occupational Therapy I(OT-561)***
Role: Adjunct Instructor/Mentor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Summer 2017, 4 Master of Science in Occupational Therapy Students *Contact*
Hours: 1 credit, 20 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
6. **Course Title: *Occupational Performance: Geriatrics (OT-603)***
Role: Adjunct Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina
Year, Number of Students: Summer 2017, 44 Master of Science in Occupational Therapy Students
Contact Hours: 2 credits; 32 hours, 16 lectures
Description: This course provides examines the foundational, clinical, and behavioral sciences pertinent to the application of the occupational therapy process of evaluation, intervention and outcomes for older adults. Students will gain knowledge of the multiple issues surrounding occupational therapy practice with older adults including age-related changes, common diagnoses and conditions, ethical and legal issues impacting service delivery, and the influence of contextual factors on occupational performance.
7. **Course Title: *Occupational Performance for Neurological Conditions II Lab(OT-606L)***
Role: Adjunct Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina
Year, Number of Students: Summer 2017, 44 Master of Science in Occupational Therapy Students
Contact Hours: 1 credit; 24 hours Transitional Care Unit lab
Description: This lab provides students with an opportunity to work with patients in the Transitional Care Unit at the Medical University of South Carolina under the supervision of a faculty member. Students conduct a chart review, plan

a treatment session, deliver treatment, and document a progress note.

8. **Course Title: Research/Scholarship Experience in Occupational Therapy II(OT-562)**
Role: Adjunct Instructor/Mentor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina
Year, Number of Students: Fall 2017, 4 Master of Science in Occupational Therapy Students *Contact*
Hours: 2 credits, 32 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
9. **Course Title: Occupational Performance: Geriatrics (OT-603)**
Role: Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina
Year, Number of Students: Summer 2018, 46 Master of Science in Occupational Therapy Students
Contact Hours: 34 hours-students (16 lectures, 1 lab); 64 hours-instructor (Transitional Care Unit lab included) *Description:* This course provides examines the foundational, clinical, and behavioral sciences pertinent to the application of the occupational therapy process of evaluation, intervention and outcomes for older adults. Students will gain knowledge of the multiple issues surrounding occupational therapy practice with older adults including age-related changes, common diagnoses and conditions, ethical and legal issues impacting service delivery, and the influence of contextual factors on occupational performance.
10. **Course Title: Research/Scholarship Experience in Occupational Therapy I(OT-561)**
Role: Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Summer 2018, 7 Master of Science in Occupational Therapy Students *Contact*
Hours: 1 credit, 20 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
11. **Course Title: Research/Scholarship Experience in Occupational Therapy II(OT-562)**
Role: Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina
Year, Number of Students: Fall 2018, 7 Master of Science in Occupational Therapy Students *Contact*
Hours: 2 credits, 32 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
12. **Course Title: Occupational Performance: Geriatrics (OT-603)**
Role: Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina
Year, Number of Students: Summer 2019, 48 Master of Science in Occupational Therapy Students
Contact Hours: 2 credits; 32 hours-students (15 lectures, 1 lab); 56 hours-instructor (Transitional Care Unit lab included)
Description: This course provides examines the foundational, clinical, and behavioral sciences pertinent to the application of the occupational therapy process of evaluation, intervention and outcomes for older adults. Students will gain knowledge of the multiple issues surrounding occupational therapy practice with older adults including age-related changes, common diagnoses and conditions, ethical and legal issues impacting service delivery, and the influence of contextual factors on occupational performance.
13. **Course Title: Research/Scholarship Experience in Occupational Therapy I(OT-561)**
Role: Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Summer 2019, 6 Master of Science in Occupational Therapy Students *Contact*
Hours: 1 credit, 20 hours (0 lectures)
Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.
14. **Course Title: Research/Scholarship Experience in Occupational Therapy II(OT-562)**
Role: Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Fall 2019, 6 Master of Science in Occupational Therapy Students *Contact*

Hours: 2 credits, 32 hours (0 lectures)

Description: This course provides an opportunity for students to work in small groups under the direction of a faculty member and engage in research or scholarship activities related to occupational therapy.

Doctor of Occupational Therapy Entry-Level Program– Primary Instructor

1. **Course Title: Topics in Aging (OTD- 834)**

Role: Instructor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Summer 2020, 46 Doctor of Occupational Therapy Students

Contact Hours: 1 credit

Description: This course provides examines the foundational, clinical, and behavioral sciences pertinent to the application of the occupational therapy process of evaluation, intervention and outcomes for older adults. Students will gain knowledge of the multiple issues surrounding occupational therapy practice with older adults including age-related changes, common diagnoses and conditions, ethical and legal issues impacting service delivery, and the influence of contextual factors on occupational performance.

2. **Course Title: Topics in Aging Lab (OTD- 834L)**

Role: Instructor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Summer 2020, 46 Doctor of Occupational Therapy Students

Contact Hours: 1 credit

Description: This lab course provides examines the foundational, clinical, and behavioral sciences pertinent to the application of the occupational therapy process of evaluation, intervention and outcomes for older adults. Students will gain knowledge of the multiple issues surrounding occupational therapy practice with older adults including age-related changes, common diagnoses and conditions, ethical and legal issues impacting service delivery, and the influence of contextual factors on occupational performance.

3. **Course Title: Scholarship I (OTD 835)**

Role: Instructor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Summer 2020, 2 Doctor of Occupational Therapy Students

Contact Hours: 1 credit

Description: This course promotes professional knowledge, skills, and attitudes that occupational therapy students need for the Doctoral Capstone – doctoral experience and project – with an emphasis on tenets of scholarship, leadership, and evidence-based practice. The course includes didactic sessions and hands-on, small group seminar sessions with students led by respective Doctoral Capstone faculty mentors for students to prepare for Doctoral Capstone.

4. **Course Title: Scholarship II (OTD 836)**

Role: Instructor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Fall 2020, 2 Doctor of Occupational Therapy Students

Contact Hours: 1 credit

Description: This course is the second of a three-part series that expands the professional knowledge, skills, and attitudes that occupational therapy students need for the Doctoral Capstone – doctoral experience and project – with an emphasis on the tenets of scholarship, leadership, and evidence-based practice. The course includes didactic sessions and hands-on, small group seminar sessions with students led by respective Doctoral Capstone faculty mentors for students to prepare for Doctoral Capstone.

5. **Course Title: Scholarship III (OTD 837)**

Role: Instructor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Spring 2021, 2 Doctor of Occupational Therapy Students

Contact Hours: 1 credit

Description: This course is the third of a three-part series that expands the professional knowledge, skills, and attitudes that occupational therapy students need for the Doctoral Capstone – doctoral experience and project – with an emphasis on the tenets of scholarship, leadership, and evidence-based practice. The course includes didactic sessions and hands-on, small group seminar sessions with students led by respective Doctoral Capstone faculty mentors for students to prepare for

Doctoral Capstone.

6. **Course Title: Neurorehabilitation Theory & Practice (OT 2217)**

Role: Co-Instructor

Name, Location of Institution: Department of Occupational Therapy, University of Pittsburgh

Year, Number of Students: Summer 2022, 60

Contact Hours: 3 credits

Description: In this course, the occupational therapy process for clients with neurological and neurobehavioral dysfunction is studied in-depth. Theories, principles, assessments, and interventions focus on performance of activities and routines of daily living and participation in society.

Master of Occupational Therapy Program, Post-Professional – Primary Instructor

1. **Course Title: Scholarly Project (OT 2251)**

Role: Instructor

Name, Location of Institution: Department of Occupational Therapy, University of Pittsburgh

Year, Number of Students: Summer 2022, 1

Contact Hours: 3 credits

Description: This course provides the student with experience in implementing, analyzing, interpreting, and/or writing elements of an existing research project under the direction of a faculty mentor.

2. **Course Title: Scholarly Project (OT 2251)**

Role: Instructor

Name, Location of Institution: Department of Occupational Therapy, University of Pittsburgh

Year, Number of Students: Fall 2022, 1

Contact Hours: 2 credits

Description: This course provides the student with experience in implementing, analyzing, interpreting, and/or writing elements of an existing research project under the direction of a faculty mentor.

3. **Course Title: Research Preceptorship II (OT 2247)**

Role: Instructor

Name, Location of Institution: Department of Occupational Therapy, University of Pittsburgh

Year, Number of Students: Spring 2023, 1

Contact Hours: 2 credits

Description: This course provides a structured experience in an occupational therapy research laboratory under the guidance of a faculty mentor.

Doctor of Philosophy in Rehabilitation Science Program – Primary Instructor

1. **Course Title: Independent Study in Functional Limitations (HRS725-18)**

Role: Instructor/Co-Mentor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Fall 2019, 1 Doctor of Philosophy Student

Contact Hours: 2 credits, 32 hours (0 lectures)

Description: This course provides the student with the opportunity to engage in a mentored, individualized, in-depth study/experience in a focused area of functional limitations as it relates to health and rehabilitation sciences.

2. **Course Title: Independent Study in Functional Limitations (HRS725-18)**

Role: Instructor/Co-Mentor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Spring 2019, 1 Doctor of Philosophy Student

Contact Hours: 2 credits, 32 hours (0 lectures)

Description: This course provides the student with the opportunity to engage in a mentored, individualized, in-depth study/experience in a focused area of functional limitations as it relates to health and rehabilitation sciences.

3. **Course Title: Independent Study in Functional Limitations (HRS 725-18)**

Role: Instructor/Mentor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Spring 2021, 1 Doctor of Philosophy Student

Contact Hours: 2 credits, 32 hours (0 lectures)

Description: This course provides the student with the opportunity to engage in a mentored, individualized, in-depth study/experience in a focused area of functional limitations as it relates to health and rehabilitation sciences.

4. **Course Title: *Independent Study in Functional Limitations (HRS725-18)***

Role: Instructor/Mentor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Spring 2021, 1 Doctor of Philosophy Student

Contact Hours: 2 credits, 32 hours (0 lectures)

Description: This course provides the student with the opportunity to engage in a mentored, individualized, in-depth study/experience in a focused area of functional limitations as it relates to health and rehabilitation sciences.

Miscellaneous Courses – Lecturer/Laboratory Instructor

1. **Course Title: *Neurorehabilitation Theory and Practice (OT 2112)***

Role: Laboratory Instructor

Name, Location of Institution: School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

Year, Number of Students: Summer 2010, 46 Master of Occupational Therapy Students

Contact Hours: 8 hours, 4 labs

Description: Occupational therapy interventions that influence performance of activities and routines of daily living and societal participation by altering the structure and function of the human nervous system are addressed. Theories, principles, and assessments that address restoration of neurobehavioral function are emphasized. Lectures are supplemented with experiential laboratory experiences.

2. **Course Title: *Neurorehabilitation Theory and Practice (OT 2112)***

Role: Guest Lecturer/Laboratory Instructor

Name, Location of Institution: School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

Year, Number of Students: Summer 2011, 47 Master of Occupational Therapy Students

Contact Hours, Number of Lectures: 14 hours, 3 lectures, 2 labs

Description: Occupational therapy interventions that influence performance of activities and routines of daily living and societal participation by altering the structure and function of the human nervous system are addressed. Theories, principles, and assessments that address restoration of neurobehavioral function are emphasized. Lectures are supplemented with experiential laboratory experiences.

3. **Course Title: *Neurobehavioral Science (OT 2109)***

Role: Guest Lecturer/Laboratory Instructor

Name, Location of Institution: School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

Year, Number of Students: Spring 2012, 48 Master of Occupational Therapy Students, 1 PhD Rehabilitation Science student

Contact Hours, Number of Lectures: 24 hours, 2 lectures, 7 labs

Description: Concepts of normal sensorimotor integration, including the influence of neural centers on postural control and functional movement are considered and the clinical manifestation of dysfunction of major neural elements are discussed.

4. **Course Title: *Neurorehabilitation Theory and Practice (OT 2112)***

Role: Guest Lecturer/Laboratory Instructor

Name, Location of Institution: School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

Year, Number of Students: Summer 2012, 49 Master of Occupational Therapy Students

Contact Hours, Number of Lectures: 8 hours, 2 lectures, 2 labs

Description: Occupational therapy interventions that influence performance of activities and routines of daily living and societal participation by altering the structure and function of the human nervous system are addressed. Theories, principles, and assessments that address restoration of neurobehavioral function are emphasized. Lectures are supplemented with experiential laboratory experiences.

5. **Course Title: *Neurobehavioral Science (OT 2109)***

Role: Guest Lecturer/Laboratory Instructor

Name, Location of Institution: School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, PA

Year, Number of Students: Spring 2013, 50 Master of Occupational Therapy Students, 2 PhD Rehabilitation Science Students.

Contact Hours, Number of Lectures: 9 hours, 2 lectures, 2 labs

Description: Concepts of normal sensorimotor integration, including the influence of neural centers on postural control and functional movement are considered and the clinical manifestation of dysfunction of major neural elements are discussed.

6. **Course Title: OT for Neurological Conditions I (OT-530-01)**
Role: Guest Lecturer/Laboratory Assistant
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Summer 2015, 44 Master of Science in Occupational Therapy Students *Contact*
Hours, Number of Lectures: 16 hours, 2 lectures, 4 labs
Description: This course will promote entry-level occupational therapy skills in the evaluation and treatment of individuals with movement skill dysfunction resulting from neurological disorders. Specific emphasis is placed upon the relationship between occupational performance dysfunction and motor performance skill deficits. The student will integrate motor control and motor learning conceptual practice models with occupational performance frameworks as a basis for evaluation and treatment planning. Students will synthesize motor rehabilitation literature and apply research-based evidence to the clinical reasoning process, specifically with regards to choosing and formulating intervention for these clients. Through dynamic interactive discussions and debates, students will apply conceptual motor rehabilitation frameworks to the therapy process.

7. **Course Title: OT for Neurological Conditions I (OT-530-01)**
Role: Guest Lecturer/Laboratory Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Spring 2016, 44 Master of Science in Occupational Therapy Students *Contact*
Hours, Number of Lectures: 16 hours, 1 lecture, 3 labs
Description: This course will promote entry-level occupational therapy skills in the evaluation and treatment of individuals with movement skill dysfunction resulting from neurological disorders. Specific emphasis is placed upon the relationship between occupational performance dysfunction and motor performance skill deficits. The student will integrate motor control and motor learning conceptual practice models with occupational performance frameworks as a basis for evaluation and treatment planning. Students will synthesize motor rehabilitation literature and apply research-based evidence to the clinical reasoning process, specifically with regards to choosing and formulating intervention for these clients. Through dynamic interactive discussions and debates, students will apply conceptual motor rehabilitation frameworks to the therapy process.

8. **Course Title: OT for Neurological Conditions I (OT-530-01)**
Role: Guest Lecturer/Laboratory Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Spring 2017, 44 Master of Science in Occupational Therapy Students *Contact*
Hours, Number of Lectures: 14 hours, 1 lecture, 3 labs
Description: This course will promote entry-level occupational therapy skills in the evaluation and treatment of Individuals with movement skill dysfunction resulting from neurological disorders. Specific emphasis is placed upon the relationship between occupational performance dysfunction and motor performance skill deficits. The student will integrate motor control and motor learning conceptual practice models with occupational performance frameworks as a basis for evaluation and treatment planning. Students will synthesize motor rehabilitation literature and apply research-based evidence to the clinical reasoning process, specifically with regards to choosing and formulating intervention for these clients. Through dynamic interactive discussions and debates, students will apply conceptual motor rehabilitation frameworks to the therapy process.

9. **Course Title: OT for Neurological Conditions I (OT-530-01)**
Role: Guest Lecturer/Lab Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*
Number of Students: Spring 2018, 46 Master of Science in Occupational Therapy Students *Contact*
Hours, Number of Lectures: 23 hours, 1 lecture, 5 labs
Description: This course will promote entry-level occupational therapy skills in the evaluation and treatment of individuals with movement skill dysfunction resulting from neurological disorders. Specific emphasis is placed upon the relationship between occupational performance dysfunction and motor performance skill deficits. The student will integrate motor control and motor learning conceptual practice models with occupational performance frameworks as a basis for evaluation and treatment planning. Students will synthesize motor rehabilitation literature and apply research-based evidence to the clinical reasoning process, specifically with regards to choosing and formulating intervention for these clients. Through dynamic interactive discussions and debates, students will apply conceptual motor rehabilitation frameworks to the therapy process.

10. **Course Title: OT for Neurological Conditions I (OT-530-01)**
Role: Lab Instructor/ Guest Lecturer/Laboratory Instructor
Name, Location of Institution: College of Health Professions, Medical University of South Carolina *Year,*

Number of Students: Spring 2019, 46 Master of Science in Occupational Therapy Students *Contact*

Hours, Number of Lectures: 42 hours, 1 lecture, 10 labs

Description: This course will promote entry-level occupational therapy skills in the evaluation and treatment of individuals with movement skill dysfunction resulting from neurological disorders. Specific emphasis is placed upon the relationship between occupational performance dysfunction and motor performance skill deficits. The student will integrate motor control and motor learning conceptual practice models with occupational performance frameworks as a basis for evaluation and treatment planning. Students will synthesize motor rehabilitation literature and apply research-based evidence to the clinical reasoning process, specifically with regards to choosing and formulating intervention for these clients. Through dynamic interactive discussions and debates, students will apply conceptual motor rehabilitation frameworks to the therapy process.

11. **Course Title: OT for Neurological Conditions I (OT-819-01)**

Role: Guest Lecturer/Lab Instructor

Name, Location of Institution: College of Health Professions, Medical University of South Carolina

Year, Number of Students: Spring 2020, 48 Doctor of Occupational Therapy Students

Contact Hours, Number of Lectures: 24 hours, 1 lecture, 5 labs

Description: This lecture + lab course enables entry level Occupational Therapy Doctorate students to acquire, develop and apply evaluation and treatment skills for individuals who cannot fully participate in life activities because of stroke-related functional movement, sensory and spatial skill dysfunction. The student will integrate neuroplasticity, motor learning, and rehabilitation conceptual models with occupational therapy frameworks as the basis for comprehensive evidence-based stroke OT. This course is taught in an immersive modular format, i.e., “bootcamp” style, to optimize opportunities for students to immediately apply readings and lecture materials to numerous first-hand interactions with stroke survivors and caregivers. Students will gain an in-depth awareness of OTs critical and unique in role stroke recovery through dynamic interactive in-class discussions, engaging online learning activities, and active involvement with clients/caregivers.

ACADEMIC ADVISING

Academic Advisor, *Entry- Level Master of Science in Occupational Therapy program*, Medical University of South Carolina

1. Class of 2019: 8 students
2. Class of 2020: 7 students

Academic Advisor, *Entry-Level Doctor of Occupational Therapy program*, Medical University of South Carolina

1. Class of 2022: 2 students
2. Class of 2023: 2 students

RESEARCH SUPERVISION & MENTORING

Current Clinical Doctoral Capstone Committees (CScD)

1. Florencia Robertson, CScD program, Secondary mentor, University of Pittsburgh, Occupational Therapy Department, 2022-2023.
2. Farida Gayle, CScD program, Primary mentor, University of Pittsburgh, Occupational Therapy Department, 2023-2025.

Current Post Doctoral Committees

1. Dominique Como, Post-Doctoral committee, University of Pittsburgh, Occupational Therapy Department, 2022-2023.

Current Doctoral Dissertation Committees

1. Emerson Hart, PhD in Rehabilitation Science, Medical University of South Carolina, Department of Health Science & Research, 2018-current. **Product:** Hart E, Grattan ES, Woodbury ML, Herbert T, Coker-Bolt P, Bonilha H. Pediatric unilateral spatial neglect: A Systematic review. *Journal of Pediatric Rehabilitation Medicine*. 14(3): 345-359. doi: 10.3233/PRM-200779.

Past Clinical Doctoral Capstone Committees

1. Amanda Hoelscher, Occupational Therapy Doctoral Capstone, Texas Woman’s University, School of Occupational Therapy, 2018-2019. **Product:** Frias A, Chan J, Smith, T, Grattan ES. Exploring the use of mobile electroencephalogram (EEG) in driving assessment: A case study. *American Journal of Occupational Therapy*. 2020;74(Supplement 1): 7411505100. doi: <https://doi.org/10.5014/ajot.2020.74S1-RP102B>

Past Master of Science in Occupational Therapy Student Mentees

1. Nicholas Dean, Briana Eberl, Hannah Hooks, Lindsay Manning, Stacie McLamb, Katie Shafer; Master of Occupational Therapy, Medical University of South Carolina, 2019. **Product:** Dean N, Eberl B, Hooks H, Manning L, McLamb S, Schafer K, Hart E, Nichols M, **Grattan ES**. Living with neglect: A qualitative analysis of stroke survivor perspectives. Presented at: South Carolina Occupational Therapy Association, Columbia, SC, February 2020.
2. Gabrielle Burns, Ashlee Hurt, Molly Young; Master of Occupational Therapy, Medical University of South Carolina, 2018. **Product:** Burns G, Hurt A, Young M, Woodbury ML, **Grattan ES**. Are certain neglect assessments better at detecting neglect than others in post-stroke patients? *American Journal of Occupational Therapy*. 2019; 73: 7311515271.
3. Kristin Housholder, Roblin Lynch, Myra Nicks; Master of Occupational Therapy, Medical University of South Carolina, 2017. **Product:** Housholder K, Bertolino N, Lynch R, Nicks M, Woodbury ML, Kraft S, **Grattan ES**. The Relationship between Neglect and Real-World Paretic Arm Use in Stroke Survivors. Poster presented at: Medical University of South Carolina Research Day. Charleston, SC, November 2017.
4. Kellyn Colclough, Elizabeth Borden, T. Williams; Master of Occupational Therapy, Medical University of South Carolina, 2016. **Product:** Colclough, K, Borden E, Williams T, Woodbury ML, **Grattan ES**. A comparison of patterns of real-world paretic arm use among people with and without unilateral neglect after stroke. Poster presented at: Medical University of South Carolina Research Day. Charleston, SC, November 2016.
5. Martha Bliven, Katie O'Connor, Jordan Perry; Master of Occupational Therapy, Medical University of South Carolina, 2015. **Product:** Bliven M, O'Connor K, Perry J, Woodbury ML, **Grattan ES**. Does upper extremity motor function relate to participation? Poster Presented at: Medical University of South Carolina Research Day. Charleston, SC, October 2015.

ACADEMIC SERVICE

University of Pittsburgh

School of Health & Rehabilitation

Science

Role, Service

Organization

Dates

- | | | |
|---|--|--------------|
| 1. SHRS Faculty Reviewer, PhD in Rehabilitation Science grants | Department of Occupational Therapy, Doctor of Philosophy in Rehabilitation Science, School of Health & Rehabilitation Sciences | 2022-present |
| 2. Faculty Committee Reviewer, PhD in Rehabilitation Science applications | Department of Occupational Therapy, Doctor of Philosophy in Rehabilitation Science, School of Health & Rehabilitation Sciences | 2022-present |
| 2. Preliminary Examination Reviewer | Doctor of Philosophy in Rehabilitation Science, School of Health & Rehabilitation Sciences | 2022 |
| 3. Academic Integrity Board | Doctor of Philosophy in Rehabilitation Science, School of Health & Rehabilitation Sciences | 2011 to 2014 |
| 4. Journal Club Co-Facilitator | Doctor of Philosophy in Rehabilitation Science, School of Health & Rehabilitation Sciences | 2012 |

Department of Occupational Therapy

Role, Service

Organization

Dates

- | | | |
|---|--|--------------|
| 1. Departmental Scientific Review | Department of Occupational Therapy | 2021-present |
| 2. Laboratory Assistant, Biomechanics course practical examination | Master of Occupational Therapy Program | 2012 to 2014 |
| 3. Laboratory Assistant, Neurorehabilitation Theory and Practice practical examination | Master of Occupational Therapy Program | 2012 to 2014 |
| 4. Laboratory Assistant, Foundations of Occupational Therapy course practical examination | Master of Occupational Therapy Program | 2011 |
| 5. Portfolio Reviewer | Master of Occupational Therapy Program | 2010-2012 |

Medical University of South Carolina

College of Health Professions

<u>Role, Service</u>	<u>Organization</u>	<u>Dates</u>
1. Speech-Language Pathology Faculty Search Committees	Medical University of South Carolina	2020

Division of Occupational Therapy

<u>Role, Service</u>	<u>Organization</u>	<u>Dates</u>
1. Admissions Committee Member	Division of Occupational Therapy	2018 to 2021
2. Occupational Therapy Summit of Scholars and Future Scientists Planning Committee	Medical University of South Carolina	2018 to 2019
3. Faculty Grader, Administered comprehensive practical examinations for 2 nd year students	Master of Science in Occupational Therapy Program	2018 to 2021
4. Mock Interviewer, Administered mock interview sessions for 2 nd year students	Master of Science in Occupational Therapy Program	2016, 2018
5. Panel Speaker, Discussed how concepts learned in Introduction to OT and OT theory course apply to clinical inpatient rehabilitation practice setting	Master of Science in Occupational Therapy Program	2015 to 2016
6. Simulated Patient, Administered comprehensive practical examinations for 2 nd year students	Master of Science in Occupational Therapy Program	2015, 2017-2020

PROFESSIONAL DEVELOPMENT

CONFERENCES/TRAINING COURSES

1. Institute for Rehabilitation and Research Day, University of Pittsburgh. Pittsburgh, PA, June 2, 2010.
2. 31st Annual Neurorehabilitation Conference, Braintree Rehabilitation Hospital, Cambridge, MA, November 6-7, 2010.
3. American Occupational Therapy Association Conference. Philadelphia, PA, April 14-16, 2011.
4. Institute for Rehabilitation and Research Day, University of Pittsburgh. Pittsburgh, PA, May, 2011
5. American Congress of Rehabilitation Medicine. Atlanta, Ga, October 11-15, 2011.
6. Women in Medicine and Science Conference 2012 Forum, University of Pittsburgh. Pittsburgh, PA, March 22-23, 2012.
7. Rehabilitation Institute Day, University of Pittsburgh. Pittsburgh, PA, May 24, 2012.
8. 8th Annual Conference: Discover How to Excel in Acute Stroke Management, Pittsburgh, PA, April 5, 2013.
9. Rehabilitation Institute Day, University of Pittsburgh. Pittsburgh, PA, June 19, 2013.
10. Pennsylvania Occupational Therapy Association Annual Conference. Pittsburgh, PA, November 8-9, 2013.
11. American Congress of Rehabilitation Medicine Annual Conference. Orlando, FL, November 13-16, 2013.
12. Women in Medicine and Science Conference 2014 Forum, University of Pittsburgh. Pittsburgh, PA, March 27-28, 2014.
13. American Occupational Therapy Association Conference. Baltimore, MD, April 3-5, 2014.
14. American Society for Neurorehabilitation Annual Meeting. Washington, DC, November 13, 2014.
15. DE-CTR ACCEL Program 2nd Annual Meeting. Charleston, SC, February 19, 2015.
16. American Occupational Therapy Association Conference. Nashville, TN. April 15-18, 2015.
17. Brain Stimulation Training Course-TMS Bootcamp. Charleston, SC. July 18, 2015.
18. American Society for Neurorehabilitation Annual Meeting. Chicago, IL, October 15-16, 2015.
19. Medical University of South Carolina Research Day. Charleston, SC, November 13, 2015.
20. Training in Grantsmanship for Rehabilitation Research. Isle of Palms, SC, January 12-16, 2016.
21. 12th Annual Aging Research Day. Charleston, SC. February 26, 2016.
22. Neuromodulation for Rehabilitation Introductory Workshop. Charleston, SC, March 7-11, 2016.
23. American Occupational Therapy Association Conference. Chicago, IL, April 6-10, 2016.
24. Occupational Therapy Summit of Scholars. Pittsburgh, PA, May 21-22, 2016.
25. Medical University of South Carolina Research Day. Charleston, SC, November 4, 2016.
26. Neuromodulation for Rehabilitation Advanced tDCS Workshop. Charleston, SC, March 27--29, 2017.
27. American Occupational Therapy Association Conference. Philadelphia, PA, March 29-April 2, 2017.
28. Medical University of South Carolina Science Communication Forum. Charleston, SC, March 9, 2018.

29. Medical University of South Carolina Foundations in Teaching and Learning-A Series for Educators. Charleston, SC, January 2018-June 2018; Certificate awarded August 6, 2018.
30. American Occupational Therapy Association Conference. Salt Lake City, UT, April 19-22, 2018.
31. Occupational Therapy Summit of Scholars. Kansas City, KS, June 8-9, 2018.
32. American Congress of Rehabilitation Medicine Annual Conference & Early Career Development Course. Dallas TX, September 30-October 1, 2018.
33. South Carolina Occupational Therapy Association Conference. Charleston, SC, February 22-23, 2019.
33. American Occupational Therapy Association Conference. New Orleans, LA, April 4-7, 2019.
34. VA Research Day. Charleston, SC, May, 15, 2019.
35. Occupational Therapy Summit of Scholars. Charleston, SC, June 21-22, 2019.
36. SCTR Write this Way to Success: Mastering the Art of Science Communication. Medical University of South Carolina Charleston, SC.
37. American Society for Neurorehabilitation Annual Meeting & Mentoring Program. Chicago, IL, October 16-18 2019.
38. VA VISN-7 Rehabilitation Annual Meeting. Birmingham, AL, November 14, 2019.
39. K12 Neurorehabilitation and Restorative Neuroscience Training Network Program monthly scholar training meetings. 2019-current.
40. NC NM4R and REACT Design and Analysis of Clinical Trials in Neuromodulation Workshop. Virtual Workshop (COVID-19), April 27, 2020.
41. Foundations of Quality Online Instruction Course. MUSC, Charleston, SC, August-September 2020.
42. American Congress of Rehabilitation Medicine Annual Conference & Early Career Development Course. Virtual Conference (COVID-19), October 19-24, 2020.
43. American Society for Neurorehabilitation Career Development Webinars. Virtual, Monthly, 2020-current.
44. American Occupational Therapy Association Annual Conference. Virtual, April 6-9, 2021.
45. Brain Stimulation for Stroke Recovery Symposium. Duke University. Virtual Symposium. May 28, 2021.
46. Occupational Therapy Summit of Scholars. Virtual Conference, June 23-25, 2021.
47. American Congress of Rehabilitation Medicine Annual Conference. Virtual Conference (COVID-19), September 26-29.
48. University of Pittsburgh SHRS Mentoring Academy: Mentoring Training Program. Fall Semester 2021.
49. American Society for Neurorehabilitation Annual Meeting & Mentoring Program. St. Louis, MO, March 31-April 2.
50. Supervisor Essentials @ Pitt Training Program. Fall Semester 2022.
51. Medical Rehabilitation Research Resource MR3 Network 2nd Annual Scientific Retreat. Rehabilitation Clinical Trials: Innovation, Designs, & Tribulations. September 29-30, 2022.
52. K12 Neurorehabilitation and Restorative Neuroscience Training Network Program Annual Meeting. Washington, DC, October 24-25 2022.